I. ACTION ITEMS

A. Approval of the Minutes of June 4, 2018

B. POLICYCALENDAR

1. Appointment of Vivian Louie, Professor of Urban Policy and Planning at Hunter College, with tenure pursuant to §6.2(b) of the Bylaws (I-B-1)
2. Appointment of Luisa Borrell as Distinguished Professor at the CUNY Graduate School of Public Health and Health Policy (I-B-2)
3. Appointment of Michael Shub as Distinguished Professor at City College (I-B-3)
4. Appointment of Eric Lott as Distinguished Professor at the Graduate Center (I-B-4)
5. Appointment of Nari Ward as Distinguished Professor at Hunter College (I-B-5)
6. Appointment of Steven Greenbaum as Distinguished Professor at Hunter College (I-B-6)
7. Appointment of Naresh Devineni at City College with Early Tenure pursuant to §6.2(d) of the Bylaws (I-B-7)

II. INFORMATION ITEMS

A. Chancellors University Report Review and Proposed Bylaws Amendments -- 1st reading
B. Revised Naming Policy Guidelines
C. Quarterly Diversity Report
The meeting was called to order by Committee Chair Lorrain Cortés-Vázquez at 5:01 p.m.

The following people were present:

**Committee Members:**
- Hon. Lorraine A. Cortés-Vázquez, Chair
- Hon. Ken Sunshine, Vice Chair
- Hon. Kevin Kim
- Hon. Michael Arvanites
- Prof. Michael Barnhart, faculty member
- Prof. Kathleen Barker, faculty alternate
- Mr. Yssed (David) Tobo, student alternate
- President Mary Lu Bilek, COP Liaison

**University Staff:**
- Interim Chancellor Vita C. Rabinowitz
- Interim Vice Chancellor Margaret Egan
- Vice Chancellor Brigette Bryant
- Interim Chief Operating Officer Marc V. Shaw
- Deputy General Counsel Jane Sovern

**Trustee Staff:**
- Senior Advisor to the Chancellor and Secretary of the Board Gayle M. Horwitz
- General Counsel and Vice Chancellor Loretta P. Martinez
- Deputy Secretary Anne Fenton

The agenda items were considered and acted upon in the following order:

I. **ACTION ITEMS:**

A. **APPROVAL OF MINUTES OF THE MEETING OF APRIL 16, 2018.** Moved by Committee Chair Cortés-Vázquez and seconded Trustee Kevin Kim, the minutes were unanimously approved as submitted.

B. **POLICY CALENDAR**

1. **Adoption of Governance Plan for the CUNY School of Urban and Labor Studies.** The item was tabled.

2. **Appointment of Lisa Farrington as Distinguished Professor of Art at John Jay College of Criminal Justice.** Interim Chancellor Vita Rabinowitz highlighted the career success of Dr. Lisa Farrington, noting that Dr. Farrington is an internationally recognized art historian and a premier specialist in the history of African-American women artists and the history of African-American art.

   Moved by Prof. Michael Barnhart and seconded by Trustee Michael Arvanites, and following discussion, the item was unanimously approved for submission to the Board.

3. **Appointment of Denis Nash as Distinguished Professor of Epidemiology at The CUNY Graduate School of Public Health and Health Policy.** Interim Chancellor Rabinowitz highlighted the career success of Dr. Denis Nash, noting that Dr. Nash is an internationally recognized epidemiologist whose expertise includes infectious disease epidemiology, epidemiologic methods, public health surveillance, global health implementation science and the epidemiology of HIV/AIDS and the Hepatitis C virus.
Moved by Prof. Barnhart and seconded by Trustee Kim, and following discussion, the item was unanimously approved for submission to the Board.

4. **Appointment of Ida Susser as Distinguished Professor of Anthropology at Hunter College.**
   Interim Chancellor Rabinowitz highlighted the career success of Dr. Ida Susser, noting that Dr. Susser is an internationally renowned anthropologist whose expertise includes social movements particularly those related to urban transformation, environmental justice, gender in working class communities and AIDS treatment and prevention.

   Moved by Trustee Kim and seconded by Trustee Arvanites, and following discussion, the item was unanimously approved for submission to the Board.

Committee Chair Cortés-Vázquez inquired about the responsibilities and benefits derived from the appointment process of Distinguished Professor in addition to the title change for clarification purposes.

II. INFORMATION ITEMS:

B. **Reappointments of Faculty with Early Tenure pursuant to §6.2.b.(2) of the Bylaws**

<table>
<thead>
<tr>
<th>College</th>
<th>Name</th>
<th>Department</th>
<th>Rank</th>
<th>Justification</th>
<th>Effective</th>
</tr>
</thead>
<tbody>
<tr>
<td>City College</td>
<td>Khalid Bou-Rabee</td>
<td>Mathematics</td>
<td>Assistant Professor</td>
<td>Strong publication record, NSF grant and excellent teaching evaluations.</td>
<td>9/1/2018</td>
</tr>
</tbody>
</table>

Interim Chancellor Rabinowitz gave a brief report on the University process of faculty nomination for early tenure, highlighting the procedures for action as well as noting the credentials required for faculty appointment.

Prof. Barnhart made a few comments, noting that being able to award early tenure is important in recruiting qualified faculty.

I. ACTION ITEMS, continued:

C. **CHANCELLOR’S UNIVERSITY REPORT**

6. **Appointment of Jane Bowers as Interim Executive Vice Chancellor for Academic Affairs and University Provost.**

7. **Appointment of Lon S. Kaufman as Provost and Vice President of Academic Affairs at Hunter College.**

   Moved by Prof. Barnhart and seconded by Committee Vice Chair Ken Sunshine, and following discussion, items I.C.6 and I.C.7 were unanimously approved for submission to the Board.

5. **Reappointment of Kristin Booth Glen as University Professor at The Graduate Center.**

   Moved by Trustee Kim and seconded by Mr. Yssed (David) Tobo, and following discussion, the item was unanimously approved for submission to the Board.
8. **Appointment of Antonio Pérez as University Professor at Hunter College.**

   Moved by Committee Vice Chair Sunshine and seconded by Trustee Arvanites, and following discussion, the item was unanimously approved for submission to the Board.

### B. POLICY CALENDAR

6. **Naming of the Helen and Robert Appel Hall at Hunter College.**
7. **Naming of the Rose Katz Classroom at Hunter College.**
8. **Naming of the Drs. Duane M. and Lily E. Christ Math and Science Resource Center at John Jay College of Criminal Justice.**
9. **Naming of the Dr. Robert Bittman Laboratory at Queens College.**
10. **Naming of the Lalita Palekar Conference Room at Queens College.**
11. **Naming of the Andrew Saderman Keyboard Room at Queens College.**
12. **Naming of the Walter and Jocelyn Barandiaran Classroom at Baruch College.**
13. **Naming of the Dennis Hickey Classroom at Baruch College.**
14. **Naming of the Richard Gilder and Lois Chiles Parlor at Hunter College’s Roosevelt House.**
15. **Naming of the David Rockefeller Cultural Corp Fellowship.**
16. **Naming of the Lewis Burke Frumkes Center for Writing and Culture at Hunter College.**
17. **Naming of the Vadim Verkhoglyad Study Room at Baruch College.**
18. **Naming of the Hedwig Schindler Lab at Baruch College.**
19. **Naming of the Robert A. Schwartz Center for Trading and Financial Markets Research at Baruch College.**

Vice Chancellor Brigette Bryant gave an overview of the naming opportunities, noting that each resolution falls within current naming guidelines.

A discussion about the naming opportunities followed, including current naming guidelines relating to pledged gifts and naming rights.

Prof. Barnhart made a comment about the generosity of the faculty relating to gifts and students, emphasizing he hopes the future policy do not discourage smaller gifts.

Moved by Prof. Barnhart and seconded by Mr. Tobo, and following discussion, items I.B.6 through I.B.19 were unanimously approved for submission to the Board.

5. **Adoption of Revised Naming Guidelines for The City University of New York.** Committee Chair Cortés-Vázquez made a motion to table the adoption of the Revised Naming Guidelines for the City University of New York to give the Committee the opportunity to review the guidelines prior to the next scheduled meeting. Trustee Arvanites seconded, and following discussion, the motion was approved.

### C. CHANCELLOR’S UNIVERSITY REPORT

1. **Appointment of Yi Li as Vice President for Academic Affairs and Provost at John Jay College of Criminal Justice.**
2. **Appointment of Robin Merle as Vice President for Institutional Advancement at John Jay College of Criminal Justice.**
3. **Appointment of Michel Hodge as Vice President for Enrollment and Student Affairs at New York City College of Technology.**
4. **Appointment of Donna Linderman as Associate Vice Chancellor for Academic Affairs at The City University of New York.**
Moved by Trustee Kim and seconded by Prof. Barnhart, and following discussion, items I.C.1 through I.C.4 were unanimously approved for submission to the Board.

II. INFORMATION ITEMS, continued:

A. Revised CUNY Sexual Misconduct Policy

General Counsel Jane Sovern stated that at an earlier meeting, the Committee on Student Affairs and Special Programs adopted the revised Policy on Sexual Misconduct.

Committee Chair Cortés-Vázquez moved to adjourn the meeting. The motion was seconded by Trustee Kim and the meeting was adjourned at 7:15 p.m.
THE CITY UNIVERSITY OF NEW YORK

Appointment of Dr. Vivian Louie as Professor of Urban Policy and Planning at Hunter College

WHEREAS, Dr. Vivian Louie was a faculty member at Harvard University from 2000-2013, being promoted from Lecturer to Assistant Professor and then finally to Associate Professor, a title she held for six years. She was the CUNY Thomas Tam Visiting Professor at Hunter for the 2013-2014 academic year, and

WHEREAS, Dr. Louie comes to Hunter College directly from the William T. Grant Foundation where she served as program officer, and

WHEREAS, Dr. Louie has an expertise in Asian American Studies including successful publication and grant writing records warranting an appointment as a full professor with tenure, be it

RESOLVED, that Dr. Vivian Louie, Professor of Urban Policy and Planning at Hunter College be appointed with tenure through a waiver of University Bylaw 6.2.b effective August 1, 2018.

EXPLANATION: Dr. Louie has never been awarded tenure at a previous institution. As such, a waiver of bylaw 6.2.b is required to appoint her with tenure. This waiver request is used to recruit highly qualified individuals from the non-profit organizations, research institutions, and government agencies to faculty positions at our colleges and schools. Dr. Louie comes to Hunter College directly from the William T. Grant Foundation where she served as a program officer. Prior to her appointment there, she was a faculty member at Harvard University from 2000-2013, being promoted from Lecturer to Assistant Professor and then finally to Associate Professor, a title she held for six years. She was the CUNY Thomas Tam Visiting Professor at Hunter for the 2013-2014 academic year. Dr. Louie has an expertise in Asian American Studies and both successful grant writing and publication records that warrant the appointment as a full professor with tenure.
MEMORANDUM

Date: July 16, 2018

To: CUNY Board of Trustees

From: Jane Bowers, Interim Executive Vice Chancellor and University Provost

Re: Waiver of Bylaw 6.2 for the Appointment of Dr. Vivian Louie at Hunter College

Hunter College seeks to appoint Dr. Vivian Louie as a Professor with tenure for the Fall 2018 semester. Since Dr. Louie has never been awarded tenure at another post-secondary educational institution, awarding her tenure upon appointment requires the Board of Trustees to approve a waiver of University Bylaw 6.2. Dr. Louie will serve in the Department of Urban Policy and Planning and be the founding Director of the Asian American Studies and Center.

She taught at Harvard University from 2000-2013 and was promoted from Lecturer to Assistant Professor and then to Associate Professor, a rank she held for the last six years she was there. From 2013-2014 she was the CUNY Thomas Tam Visiting Professor for the 2013-2014 academic year, and since then has been a program officer at the William T. Grant Foundation. Dr. Louie has deep subject matter expertise in Asian American Studies, a successful grant writing record and a publishing track record that meets the criteria for a full professor in the areas of immigration, education and related topics.

Dr. Louie’s scholarship warrants the awarding of tenure. She will bring a welcome expertise to Hunter as well as add to the diversity of the faculty. Therefore, I recommend to the Board that a bylaw waiver be granted to allow Hunter to appoint Dr. Louie with tenure.

Cc: Gayle M. Horwitz
THE CITY UNIVERSITY OF NEW YORK

Appointment of Luisa Borrell
as Distinguished Professor at the CUNY Graduate School of Public Health and Health Policy

WHEREAS, Professor Luisa Borrell is an internationally recognized leader in the social determinants of health and the role of race/ethnicity, socioeconomic indicators and neighborhood conditions as factors that promote disease and health in populations; and

WHEREAS, In addition to over 100 peer-reviewed journal articles, many in top journals in the fields of epidemiology and public health, and significant recognition by her peers as measured by the thousands of citations her work has received, Professor Borrell has received over $7 million in external grants from the National Institutes of Health and the Robert Wood Johnson and R.W. Kellogg Foundations; now therefore be it

RESOLVED, That the Board of Trustees of The City University of New York appoint Luisa Borrell as Distinguished Professor of Epidemiology at the CUNY Graduate School of Public Health and Health Policy effective November 1, 2018, with compensation of $28,594 per annum in addition to her regular academic salary, subject to financial ability.

EXPLANATION: As one of her reviewers notes, “Dr. Borrell’s experience as a dentist, coupled with her training as an epidemiologist, have paved the way for truly novel work in the area of oral health and health disparities. Dr. Borrell was the first scholar to note the Hispanic Paradox in oral health (i.e., better oral health in Mexican Americans compared to other ethnic groups despite more socioeconomic risk factors). Based on that work, Dr. Borrell created a new index of health disparities, the “Symmetrized Theil Index.” Another notes that “Dr. Borrell’s work has truly changed the field, as she may actually have been the first to systematically and expertly use oral health variables as endpoints to quantify racial and ethnic disparities.” A third comments that “Two facets of Dr. Borrell’s work have been especially innovative over the years. The first of those is her focus on social disparities in oral health. Simply put, Dr. Borrell is the nation’s leading scholar in this area of study and literally brought populations-based disparities in oral health to the nation’s attention in the early 2000s.” “The second innovative aspect of Dr. Borrell’s work involves her understanding of Hispanic heterogeneity in population health.” “She was the first scholar to clearly demonstrate that race matters for the health of Hispanics.”

Dr. Borrell joined the CUNY Graduate School of Public Health and Health Policy in 2016 as Professor of Epidemiology & Biostatistics. Previously, she served as an Associate Professor, from 2008 to 2011, and then Professor, from 2012 to 2016, in the Department of Health Sciences at Lehman College and the CUNY Graduate Center and Assistant Professor of Epidemiology, from 2001 to 2008, at the Mailman School of Public Health at Columbia University. She received her Ph.D. in Epidemiologic Science from the University of Michigan School of Public Health, a Master in Public Health (M.P.H.) from Columbia University and a Doctor in Dental Surgery (D.D.S.) from Columbia University School of Dental and Oral Surgeons. She is currently the chair
of Epidemiology and Biostatistics at the CUNY Graduate School of Public Health and Health Policy, a position she has held since 2016, when she joined the School.

The CUNY Graduate School of Public Health and Health Policy and The City University of New York will be well-served by Professor Borrell’s appointment as Distinguished Professor.
**Luisa N. Borrell, D.D.S., Ph.D.**

*Department of Epidemiology & Biostatistics*
*Graduate School for Public Health & Health Policy*
*City University of New York*
*55 West 125th Street*
*New York, NY 10027*
*646-364-9530*
*Luisa.Borrell@sph.cuny.edu*

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**Last Update**
April 11th, 2018

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**Academic Training**

*Doctor of Philosophy (Ph.D.) - Epidemiologic Science*
University of Michigan, School of Public Health, Department of Epidemiology, Ann Arbor, MI 04/2001
Interdepartmental Concentration: Public Health Genetics

*Master in Public Health (M.P.H.)*
Columbia University, School of Public Health, New York City, NY 02/1994
Major Field: General Public Health.

*Doctor in Dental Surgery (D.D.S.)*
Columbia University, School of Dental and Oral Surgeons, New York City, NY 02/1994

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**Traineeship**

*Dental Public Health Resident*
Montefiore Medical Center/NYS Oral Health Department-Department of Dentistry
Bronx, NY 8/96-8/97
Assisted in the development and coordination of disease prevention and health promotion outreach programs for a diversified low-income population.

*General Dental Resident*
Mount Sinai Medical Center-Department of Dentistry-New York City, NY 2/94-2/95
Provided comprehensive dental treatment, prevention and health promotion to a medical-compromised population.

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**Academic Appointments**

*Chair* 8/16-07/17
*Professor* 1/16-Present
*Epidemiology & Biostatistics*
*Graduate School of Public Health and Health Policy*
City University of New York (CUNY)
New York, NY

Chair
Professor
01/12- 01/16
Associate Professor
02/08–12/11
Department of Health Sciences/ Lehman College
The Graduate Center/ Health Sciences Doctoral Programs
Track Coordinator of Epidemiology Doctoral Program in Public Health
Associate Director of CUNY Institute for Health Equity
City University of New York (CUNY)
New York, NY

Adjunct Professor
Present 9/13-
Adjunct Associate Professor
Department of Epidemiology & Health Promotion
New York University
College of Dentistry
New York, NY

Adjunct Assistant Professor
Mailman School of Public Health – Department of Epidemiology
Columbia University
New York, NY

Assistant Professor
Mailman School of Public Health – Department of Epidemiology
College of Dental Medicine
Columbia University
New York, NY

HONORS & AWARDS

Giner De los Ríos
21, 2017
Visiting Scholar
University of Alcalá de Henares
Madrid, Spain

Diversity Initiative Award
31, 2007
Columbia University, NY

Health Disparities Scholar
National Center on Minority Health & Health Disparities, NIH-MD
September 1, 2003-June 30, 2006

Calderone Junior Faculty Development Award
Mailman School of Public Health-Columbia University-NY
October 1, 2002-June 30, 2003

Luisa N. Borrell
Leverett Graduate Student Award for Outstanding Achievement in Community Dentistry
AAPHD-American Association of Public Health Dentistry-Portland-OR April 2001

Rackham Fellowship
Summer Fellowship-University of Michigan-Ann Arbor-MI Summer 2000

Minority Award
ICPSR-Institute of Social Research-University of Michigan-Ann Arbor-MI Summer 2000

Minority Award
ICPSR-Institute of Social Research-University of Michigan-Ann Arbor-MI Summer 1999

National Research Service Award- Fellowship
National Institute of Dental and Craniofacial Research (NIDCR)
University of Michigan-School of Public Health-Ann Arbor-MI September 1, 1997-August 31, 2000

Professional Organizations & Societies
American Association of Public Health Dentistry
American Association of Sociology
American Statistics Association
American Dental Association
American College of Epidemiology
American Public Health Association
International Association of Dental Research /American Association of Dental Research
International Epidemiological Association
International Society of Hypertension in Blacks
Society for Epidemiologic Research

Research & Scholarship

Citation Impact
Scholarly citations: total citations: 6,968; h-index: 49; i10-index: 95

Original & Peer Reviewed Articles (*indicated student, postdoctoral fellow or junior faculty)


77. Dallo FJ, Borrell LN. The health of Arab Americans in the US. Ethnicity and Disease 2006; 16:699-705.


For a complete list of publications and impact of publications, please see:


https://scholar.google.com/citations?user=z61hP0AAAAAJ&hl=en

Book Chapters


Invited Publications


Research with Media Coverage


Borrell LN. Self-reported Hypertension and Race among Hispanics in the National Health Interview Survey. Ethnicity & Disease 2006; 16:71-77.


Abstracts & Presentations


Luisa N. Borrell


CONFERENCES & INVITED PRESENTATIONS


Borrell LN. Race and ethnicity as social determinants of oral health. Keynote address speaker: Behavioral, Epidemiologic and Health Services Research Program. American Association of Dental Research, Dallas, TX, April 4th, 2008.


FELLOWSHIP & GRANT SUPPORT

SUBMITTED

NIH NIMHD
Epigenetics of Socio-Environmental Effects on Asthma in Minorities
The application aims to (i) identify new classes of therapeutic targets, different from those discovered via genetics, (ii) precisely treat patients by selecting interventions using epigenetic markers, (iii) improve risk profiling, especially for minority populations, (iv) provide the global research community with the largest methylation dataset on minority children produced to date, with a substantially increased value due to existing clinical, socio-environmental, genetic, and gene expression data.
Role: Co-PI (PI: N. Zeitlen, UCSF)

NIH NIMHD
Specialized Center for Excellence for Research on Minority Health and Health Disparities
The overarching mission of our proposed center is to establish a transdisciplinary implementation science research platform to promote minority health and reduce health disparities by advancing rigorous context-relevant research, strengthening partnerships with community stakeholders and decision-makers, and disseminating strategies for the design or redesign of programs, interventions, and policies.
Role: Associate Director for Administrative Core (PI: Denis Nash)

NIH NHLBI TOPMed
Computational Tools to Uncover Biological Mechanisms Mediating Gene Associations with Racial/Ethnic Differences in Drug Response Among Minority Children with Asthma
The goal of the project was to integrate cell-type specific 'omics data with social and environmental factors to whole genome sequence results to identify functional biologic mechanisms associated with racial/ethnic variation in asthma therapeutics.
Role: Multi-PI (co-PI with B. Himes, U Penn)
Not funded

Centers for Disease Control and Prevention
Special Interest Project - Environmental Scan of Oral Health and Chronic Disease Integration
The goal of this project is to conduct an environmental scan on the current status of how oral public health is integrating with chronic disease prevention efforts and health care reform, capturing examples of best practices in integration and documenting oral health and primary care linkages.
Role: Co-Principal Investigator
Not funded

PAST

NIH/NIDCR
NIH R03DE017901-01A1
TC $ 322,000
Measuring & documenting disparities in Oral Health: A practical approach
The goal of this proposal is to develop and test a methodology to assess oral health disparities in dental caries and periodontal diseases across populations over time.
Role: Principal Investigator

PSC-CUNY Faculty Research Award
TC $ 4,000
Examining the contribution of country of origin among Hispanics on diabetes and hypertension racial/ethnic disparities in New York City.
Role: Principal Investigator

Diversity Initiative Award
Columbia University, NY
TC $25,000
Mortality in Hispanic and non-Hispanic Adults in the US
The goal of this proposal is to investigate the association between race and mortality in Hispanics and non-Hispanics 25 years of age or older; and to compare the strength of this association in Hispanics and non-Hispanics. The study also will investigate the association between ethnicity and mortality.
Role: Principal Investigator
R.W. Kellogg Foundation
TC $ 262,500
Kellogg Scholars in Health Disparities Program
Postdoctoral Training Program
To prepare a new generation of minority scientists for careers and leadership roles in health disparities research.
Role: Principal Investigator/Site Director

Robert Wood Johnson Foundation (Bruce Link, Peter Bearman PI) 09/01/06-08/31/08
TC $ 5,494,384
Columbia Health and Society Scholars Program
The goal of this grant is to develop a postdoctoral training program in population health
Role: Co-Investigator

Robert Wood Johnson Foundation 05/01/04-08/31/07
Dental Care and Transportation in an Older Population in Northern Manhattan and the South Bronx: A Spatial Mismatch
TC $ 10,900.00
To examine the association between access to dental care and transportation for the older population in Northern Manhattan and the South Bronx
Role: Principal Investigator

Robert Wood Johnson Foundation 05/01/05-04/30/07
Body Mass Index and Childhood Asthma: Effects of the neighborhood food environment.
TC $ 5,000.00
To examine the contribution of the neighborhood food environment to the association between obesity and asthma in children in Harlem, New York City.
Role: Principal Investigator

NIH/NIDCR
NIH K22 DE015317 09/01/03-03/05/08
TC $ 539,274
Social Inequalities in Periodontal Diseases
To assess the contribution of both individual and neighborhood-level social factors on the determinants of periodontal diseases; examine the contribution of individual risk factors to racial/ethnic and socioeconomic differences in periodontal diseases; investigate interactions across individual and neighborhood-level social factors; and explore periodontal health disparity trends over time.
Role: Principal Investigator

Robert Wood Johnson Foundation 03/01/03-02/28/04
Advancing Population Health in Northern Manhattan: Integrating Oral Health Care Data for Older Adults into a Spatial Database
TC $ 3,500.00
To integrate data on oral health care for older adults into a spatial database to be used in future research related to oral health disparities and health service provision in Northern Manhattan.
Role: Principal Investigator

W.K. Kellogg Foundation (Allan Formicola, PI) 07/01/03-12/31/03
Kellogg Community Voices Project
The goal of this grant is to develop a postdoctoral training program in population health
Role: Co-Investigator

Luisa N. Borrell
Cancer Center Pilot Project-P20 (A. Neugut, PI) 07/01/02-06/30/03
NIH P20 CA091372
TC $ 53,894
Ethnic Variations in Factors Influencing Breast Cancer Risk
To ascertain a baseline profile of known risk factors for breast cancer and investigate their association with early life events and acculturation in a relatively homogeneous population in term of race and SES in Bedford-Stuyvesant, Brooklyn, NY.
Role: Principal Investigator

R01 HL64142-01A1 (Heiss, G. PI, Diez Roux Subcontract PI) 03/01/02-02/28/03
NIH
Annual Direct Costs: $41,953
Life course SES, social context, and cardiovascular disease
The goal of the project is to examine how life course SES and social context shape the development of cardiovascular disease.
Role: Co-Investigator

P-01-079 (Ezra S. Sussner, PI) 12/01/01-11/30/03
NIH
TC $ 315,001
Prenatal PCB Exposures and Neurodevelopment Outcomes in Adolescence and Adulthood: Minority Supplemental
To understand how the interaction among environmental exposures, race/ethnicity and socioeconomic indicators relates to health disparities.
Role: Co-Investigator

Columbia Center for the Active Life of Minority Elder (CALME) 08/01/01-07/31/02
Pilot Study: Racial/Ethnic Variation in Periodontitis in an Older Population
TC$ 25,000
To compare the prevalence of periodontitis in non-Hispanic black, Mexican American and non-Hispanic white adults aged 50 years or older using data from the third National Health and Nutrition Examination Survey (NHANES III, 1988-1994).
Role: Principal Investigator

TEACHING EXPERIENCE & RESPONSIBILITIES

Introduction to Epidemiology (P6400) Fall'01- Fall'02
Mailman School of Public Health, Department of Epidemiology
Seminar Leader

Master Essay I Course (P9419) Fall'02-Fall'05
Mailman School of Public Health, Department of Epidemiology
Co-Director

Master Essay II Course (P9420) Spring'03-Spring'05
Mailman School of Public Health, Department of Epidemiology
Course Director

Application of Epidemiologic Research Methods (P8483) Spring'04-Summer'07
Mailman School of Public Health, Department of Epidemiology
Course Director

Luisa N. Borrell
Application of Epidemiologic Research Methods (PHE 710)
Lehman College/CUNY, Department of Health Sciences
Course Director
Spring'08-Present

Biostatistics (PHE 600)
Lehman College/CUNY, Department of Health Sciences
Course Director
Spring'08-Fall'09

Epidemiologic Methods II (PUBH821)
CUNY Graduate Center/CUNY
Course Director
Spring'09-Spring'10

Capstone Project Seminar (PHE 792)
Lehman College/CUNY, Department of Health Sciences
Course Director
Spring'09-Spring'11

Advanced Seminar (PUBH 891)
CUNY Graduate Center/CUNY
Course Director
Spring'10

Dissertation Seminar (PUBH 898)
CUNY Graduate Center/CUNY
Course co-Director
Fall'11

Capstone Seminar (PHE 790)
Lehman College/CUNY, Department of Health Sciences
Course Director
Fall'11-Fall'15

Fundamentals of Epidemiology
CUNY Graduate School of Public Health and Health Policy
Course Director
Fall'16

Epidemiologic Methods I
CUNY Graduate School of Public Health and Health Policy
Course Director
Fall'16

Epidemiologic Methods I
CUNY Graduate School of Public Health and Health Policy
Course Director
Spring'17

Principles of Epidemiology
CUNY Graduate School of Public Health and Health Policy
Course Director
Fall'17

Epidemiologic Methods III
CUNY Graduate School of Public Health and Health Policy
Course Director
Spring'18

MENTORING

<table>
<thead>
<tr>
<th>Students</th>
<th>Institution</th>
<th>Level</th>
<th>Training Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Luisa N. Borrell</td>
<td></td>
<td></td>
<td>Page 19</td>
</tr>
</tbody>
</table>
Vazquez, Elizabeth  
Columbia U, Mailman School of Public Health  
Master  
2001-2002

White, Kellee  
Columbia U, Mailman School of Public Health  
Master/Doctoral  
2001-2008

Inagami, Sanae  
Columbia U, Mailman School of Public Health  
Master  
2003-2005

Crawford, Natalie  
Columbia U, Mailman School of Public Health  
Master/Doctoral  
2004-2011

Phillips, Schiffon  
Columbia U, Mailman School of Public Health  
Master  
2004-2006

Peterson, Ingrid  
Columbia U, Mailman School of Public Health  
Doctoral  
2003-2006

Chrisom, Kristopher  
Columbia U, Mailman School of Public Health  
Doctoral  
2004-2008

Ahmed, Firas  
Columbia U, Mailman School of Public Health  
Master  
2005-2007

Janevic, Teresa  
Columbia U, Mailman School of Public Health  
Doctoral  
2006-2008

Araujo, Beverly  
Columbia U, Mailman School of Public Health  
Postdoctoral  
2004-2005

Kwon, Helen  
Columbia U, Mailman School of Public Health  
Postdoctoral  
2004-2006

Ford, Chandra  
Columbia U, Mailman School of Public Health  
Postdoctoral  
2006-2008

Yip, Julie  
Columbia U, Mailman School of Public Health  
Doctoral  
2004-2009

Baquero, Maria  
Columbia U, Mailman School of Public Health  
Doctoral  
2007-2014

Diaz, Angela  
Columbia U, Mailman School of Public Health  
Doctoral  
2009-2015

Modali, Laxmi  
Columbia U, Mailman School of Public Health  
Master  
2008-2009

Desorbo, Alexandra  
Columbia U, Mailman School of Public Health  
Master  
2008-2009

Adday, Sophia  
Columbia U, Mailman School of Public Health  
Master  
2010-2011

Addison, Diane  
Columbia U, Mailman School of Public Health  
Master  
2010-2011

Wishack, Sara  
Columbia U, Mailman School of Public Health  
Master  
2006-2011

Gowie, Danielle  
Columbia U, Mailman School of Public Health  
Master  
2013-2014

Ritter, Lauren  
Columbia U, Mailman School of Public Health  
Master  
2014-2015

Adams, Loren  
Columbia U, Mailman School of Public Health  
Master  
2017-Present

Ethan, Danna  
CUNY, Lehman  
Junior Faculty  
2011-2015

Samuel, Lalitha  
CUNY, Lehman  
Junior Faculty  
2011-2016

Thakur, Neeta  
U California, San Francisco  
Junior Faculty  
2012-Present

Welch, Alice  
CUNY, Graduate School of Public Health  
Doctoral  
2008-2010

Jones, Lucretia  
CUNY, Graduate School of Public Health  
Doctoral  
2007-2012

Palermo, Ann-Gel  
CUNY, Graduate School of Public Health  
Doctoral  
2007-2013

Cummings, Kisha  
CUNY, Graduate School of Public Health  
Doctoral  
2008-2015

Wiezel, Ellen  
CUNY, Graduate School of Public Health  
Doctoral  
2009-2015

Weiss-Riley, Rachael  
CUNY, Graduate School of Public Health  
Doctoral  
2009-2017

Lancet, Elizabeth  
CUNY, Graduate School of Public Health  
Doctoral  
2009-Present

Betancourt, Gabriela  
CUNY, Graduate School of Public Health  
Doctoral  
2008-Present

Ann, Jessica  
U California, Berkeley  
Doctoral  
2016-Present

DEPARTMENTAL & UNIVERSITY COMMITTEES

Curriculum Committee  
Mailman School of Public Health, Department of Epidemiology  
Member

Diversity Committee

Luisa N. Borrell  
Page 20
Mailman School of Public Health, Department of Epidemiology
Member

Masters Committee
Mailman School of Public Health, Department of Epidemiology
Member

07/01-01/08

Doctoral Committee
Mailman School of Public Health, Department of Epidemiology
Member

06/05-01/08

Director of the Master’s Program in Epidemiology
Mailman School of Public Health, Department of Epidemiology

10/05-01/08

Co-Director A. Gelman Department Training Program
Mailman School of Public Health, Department of Epidemiology

10/04-01/08

Associate Director, RWJ Columbia Health and Society Scholars Program
Mailman School of Public Health/ ISERP

06/02-01/08

Director, Kellogg’s Scholars for Health Disparities
Mailman School of Public Health, Department of Epidemiology

09/03-01/08

Admission Committee
Lehman College – Graduate Program of Public Health

06/08-Present

Admission and Awards Committee
CUNY Graduate Center – Doctoral Program in Public Health

09/09-05/12

Promotion Committee
PABSCOR Committee
Fellowship Awards Committee
Lehman College

09/11-08/13

Appointment, Promotion and Tenure Committee
CUNY- Graduate School of Public Health & Health Policy
Chair

02/16-01/19

Curriculum Committee
Dean’s Cabinet
Steering Committee
CUNY Graduate School of Public Health and Health Policy
Member

09/01/16-Present

CUNY’s Knowledge Creation and Innovative Research Committee
City University of New York
Co-Chair

08/17-Present

OTHER PROFESSIONAL ACTIVITIES

Journals’ Editorial and Reviewer Services

Luisa N. Borrell
Annals of Epidemiology
American Journal of Epidemiology
American Journal of Hypertension
American Journal of Physical Anthropology
American Journal of Public Health (Guest Editor for Oral Health Care (In)Equity, Fall 2016; Associate Editor 01/01/17-12/31/19)
Biodemography and Social Biology
BMB Cancer (Associate Editor, 2010-2012)
BMC Public Health
Circulation
Community Dentistry and Oral Health (Editorial Board, 2008-2010; Associate Editor, 2011-Present)
Demography
Diabetes Care
Epidemiology Reviews
Ethnicity and Disease (Editorial Board, 2009-2011; Associate Editor, 2011-Present)
Ethnicity and Health
European Journal of Oral Sciences
Gerontology and Geriatric Medicine
Group Processes & Intergroup Relations
Health Affairs
Health & Place
Hypertension
International Journal of Epidemiology
International Journal of Equity in Health
International Journal of Public Health
Journal of Aging and Health
Journal of Cancer Education
Journal of Care for the Poor and Underserved
Journal of Clinical Periodontology
Journal of Dental Research
Journal of Environmental and Public Health
Journal of Epidemiology and Community Health
Journal of General Internal Medicine
Journal of Health & Social Behavior
Journal of Health Psychology
Journal of Immigrant and Minority Health
Journal of the National Medical Association
Journal of Psychosomatic Research
Journal of Public Health Dentistry
Journal of Studies on Alcohol and Drugs
Journal of Urban Health
Lancet
Milbank Quarterly
Obesity
Oral Diseases
PLOS ONE
Pediatric Allergy, Immunology, and Pulmonology
Population and Development Review
Population Research and Policy Review
Preventive Medicine (Editorial Board, 2009-Present)
Psychology of Addictive Behaviors
Public Health Reports

Luisa N. Borrell
Panel Member and Grant Reviewer Services

National Institute of Dental and Craniofacial Research Special Emphasis Panel Study Section - Member

National Cancer Institute Special Emphasis Panel to reduce cancer health disparities - Ad hoc Member

National Institute of Health Healthcare Deliveries and Methodology SBIR Study Section - Member

National Center on Minority Health and Health Disparities Panel for innovative translational and trans-disciplinary interventions on social determinants of health – Ad hoc Member

Subcommittee in Health Equity and Disparities for Healthy People 2020 – March 21, 2008- Invited member

NIDCR Behavioral Intervention Research Meeting: Behavioral Intervention Research at a Crossroads: Where Do We Go From Here? July 23-24, 2009 - Invited Member

Health and Human Services Panel for the PSC-CUNY Grants – Member since 2010 (March 2017)

Review Committee for the 2010 CUNY Collaborative Incentive Research Grant - Member

Health Disparities and Equity Promotion (HDEP) Study Section – Ad hoc Member

Roundtable Discussion on Health Disparities, National Institute of Dental and Craniofacial Research (NIDCR) - National Institutes of Health – Invited Member (06/28/13)

NIH Health Disparities and Equity Promotion (HDEP) Study Section - Ad hoc Member (09/22/14)

NIH Native American Health Promotion Study Section – Member (09/30/15; 11/01/16)

NIH NIDCR DSR Fellowship F, Career Development K, and New Investigator R03 applications -- Member (June 16th-17th, 2016)

CUNY Interdisciplinary Research Grants – Member (July 2016; June 2017)

NIH Health Services and Minority Health and Health Disparities Study Section- Ad hoc Member (11/01/16)

NIH Social Epigenomics Research Focused on Minority Health and Health Disparities –Member (03/28/17)

CUNY GSPHHP Dean’s Mentored Awards – June 2017

Deutsche Forschungsgemeinschaft (German Research Foundation, DSG), Bonn, Germany – Review Panel Member for the Research Unit in the Area of “Public Health – June 18-20, 2018
THE CITY UNIVERSITY OF NEW YORK

Appointment of Michael Shub
as Distinguished Professor at City College

WHEREAS, Professor Michael Shub is an internationally recognized leader in dynamical systems and computational complexity; and

WHEREAS, In addition to over 95 peer-reviewed journal articles, three authored or co-authored books and one edited book, 5 patents and over 100 invited addresses, Professor Shub was elected Fellow of the American Mathematical Society in 2016, Fellow of the Fields Institutes in 2010 and Fellow of the American Association for the Advancement of Science in 2000; now therefore be it

RESOLVED, That the Board of Trustees of The City University of New York appoint Michael Shub as Distinguished Professor of Mathematics at City College effective November 1, 2018, with compensation of $28,594 per annum in addition to his regular academic salary, subject to financial ability.

EXPLANATION: One of his reviewers notes that Professor Shub “has, over several decades, made invaluable research contributions on well-known hard problems. Moreover, he has played a seminal role in constructing bridges between two foundational scientific areas of great research interest, dynamical systems and computational complexity; and his creative works on these have been very influential both in pure mathematics and in theoretical computer science. They’re also valuable for the study of chaotic phenomena in current physics, with yet further applications.” Another notes that “Mike Shub is very creative and plays the role of pioneer. He has proposed questions and ideas which have opened important new directions and that have been developed by large groups of dynamicists. To my mind, he is among the mathematicians who had the biggest influence on the theory of dynamical systems.” As another reviewer points out, “Mike Shub is one of a small select group of first rate, internationally renowned mathematicians who have made substantial contributions to Dynamical Systems and related areas over the past several decades. This group includes Fields Medal winners and winners of several other distinguished prizes. I mention this relation to prize winners to emphasize that the areas Shub works in are at the center of many of the most significant mathematical developments in the past half century.”

Dr. Shub joined the City College Department of Mathematics in 2016 as Martin and Michele Cohen Professor. He is also Professor of Mathematics at the CUNY Graduate Center. Previously, he served as Principal Investigator at the University de Buenos Aires from 2010 – 2014; Professor and then Distinguished Professor at the University of Toronto from 2004 – 2010; Research Staff Manager and Manager of Special Math Studies at the IBM Thomas J. Watson Research Center from 1985 to 2004; Associate Professor and then Professor at Queens College from 1973 to 1985; and Assistant and then Associate Professor at the University of California at Santa Cruz from 1971 to 1973. He is currently the chair of the Department of Mathematics at City College, a position he has held since he joined the college in 2016. He earned his M.A. and Ph.D. in Mathematics from the University of California, Berkeley and an A.B. from Columbia University.
City College and The City University of New York will be well-served by Professor Shub’s appointment as Distinguished Professor.
CURRICULUM VITAE

DATE OF PREPARATION 11/20/2017

1. NAME  Michael Shub
   Affiliations: (e.g. City College, Graduate Center, non-CCNY or CUNY affiliations, etc.)
   CUNY City College of New York, CUNY Graduate Center

2. RECOMMENDATION FOR

   PROMOTION: Distinguished Professor
   REAPPOINTMENT: Distinguished Professor  REAPPOINTMENT WITH TENURE: X

   TITLE  Professor

   EFFECTIVE DATE: August 2018
3. **HIGHER EDUCATION**
(indicate your Masters/PhD/Postdoctoral Mentor)

**A. Degrees**

<table>
<thead>
<tr>
<th>Degree</th>
<th>Institution and Notes</th>
</tr>
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<tbody>
<tr>
<td>Ph.D. 1967</td>
<td>University of California, Berkeley, Mathematics</td>
</tr>
<tr>
<td>M.A. 1966</td>
<td>University of California, Berkeley, Mathematics</td>
</tr>
<tr>
<td>A.B. 1964</td>
<td>Columbia College (Summa Cum Laude)</td>
</tr>
<tr>
<td>1969-1970</td>
<td>NATO Postdoctoral Fellowship (Postdoctoral mentor René Thom)</td>
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</table>

4. **EXPERIENCE**

<table>
<thead>
<tr>
<th>Institution</th>
<th>Position and Department</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>City College of The City University of New York</td>
<td>Martin and Michele Cohen Professor and Chair, Mathematics Department</td>
<td>2016-present</td>
</tr>
<tr>
<td>CUNY Graduate Center, Mathematics Department</td>
<td>Professor</td>
<td>2016-present</td>
</tr>
<tr>
<td>CONICET, IMAS</td>
<td>Investigador Principal</td>
<td>2010-2014</td>
</tr>
<tr>
<td>Universidad de Buenos Aires</td>
<td></td>
<td></td>
</tr>
<tr>
<td>University of Toronto</td>
<td>Professor</td>
<td>2004-2008</td>
</tr>
<tr>
<td></td>
<td>Distinguished Professor</td>
<td>2009-2010</td>
</tr>
<tr>
<td>IBM, Thomas J. Watson Research Center</td>
<td>Research Staff Member</td>
<td>8/85-2004</td>
</tr>
<tr>
<td></td>
<td>Manager, Special Math Studies</td>
<td>1989-97</td>
</tr>
<tr>
<td>Queens College of The City University of New York</td>
<td>Associate Professor</td>
<td>9/73 - 12/74</td>
</tr>
<tr>
<td></td>
<td>Professor</td>
<td>1/75 - 7/85</td>
</tr>
<tr>
<td>University of California at Santa Cruz</td>
<td>Assistant Professor</td>
<td>9/71 - 12/72</td>
</tr>
<tr>
<td></td>
<td>Associate Professor</td>
<td>1/73 - 6/73</td>
</tr>
<tr>
<td>Brandeis University</td>
<td>Lecturer</td>
<td>9/67 - 6/68</td>
</tr>
<tr>
<td></td>
<td>Assistant Professor</td>
<td>7/68 - 8/71</td>
</tr>
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</table>

**Other Professional Experience:**

<table>
<thead>
<tr>
<th>Experience</th>
<th>Dates</th>
</tr>
</thead>
<tbody>
<tr>
<td>Algorithms and Complexity in</td>
<td></td>
</tr>
<tr>
<td>Algebraic Geometry Semester</td>
<td></td>
</tr>
<tr>
<td>Long term participant</td>
<td>9/14 -10/14</td>
</tr>
<tr>
<td>Institution</td>
<td>Position</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>-----------------------------------------------</td>
</tr>
<tr>
<td>Simons Institute</td>
<td>Investigador Asociado en el Area de Matematica</td>
</tr>
<tr>
<td>PEDECIBA</td>
<td></td>
</tr>
<tr>
<td>Graduate School of CUNY</td>
<td>Adjunct Professor</td>
</tr>
<tr>
<td>Université Paul Sabatier, Toulouse</td>
<td>Professeur Invité</td>
</tr>
<tr>
<td>Université de Paris Jussieu</td>
<td>Professeur Invité</td>
</tr>
<tr>
<td>Mathematical Sciences Research Center,</td>
<td>Visitor</td>
</tr>
<tr>
<td>City University of Hong Kong</td>
<td></td>
</tr>
<tr>
<td>University of Buenos Aires</td>
<td>Visitor</td>
</tr>
<tr>
<td>Mathematics Department</td>
<td></td>
</tr>
<tr>
<td>Centre De Recerca Matematica</td>
<td>Visitor, Continuous</td>
</tr>
<tr>
<td>Institut D'Estudis Catalans</td>
<td>Computability &amp; Complexity</td>
</tr>
<tr>
<td></td>
<td>Semester</td>
</tr>
<tr>
<td>International Computer Science Institute</td>
<td>Member</td>
</tr>
<tr>
<td>Columbia University</td>
<td>Adjunct Professor of Computer Science</td>
</tr>
<tr>
<td></td>
<td>Adjunct Professor of Applied Physics</td>
</tr>
<tr>
<td>Graduate School of CUNY</td>
<td>Adjunct Professor of Mathematics and of Computer Science</td>
</tr>
<tr>
<td>Mathematical Sciences Research Institute, Berke</td>
<td>Geometric Complexity Member</td>
</tr>
<tr>
<td></td>
<td>Foundations of Computational Mathematics</td>
</tr>
<tr>
<td>University of California at Berkeley</td>
<td>Visiting Professor</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Université de Paris-Sud</td>
<td>Professeur Associé</td>
</tr>
<tr>
<td>Orsay, France</td>
<td>Maître de Conference</td>
</tr>
<tr>
<td>Massachusetts Institute of Technology</td>
<td>Guest</td>
</tr>
<tr>
<td>Institution</td>
<td>Position</td>
</tr>
<tr>
<td>-------------------------------------------------</td>
<td>-------------------------------------</td>
</tr>
<tr>
<td>Instituto de Matematica</td>
<td>Visiting Member</td>
</tr>
<tr>
<td>Pura e Aplicada</td>
<td></td>
</tr>
<tr>
<td>Rio de Janeiro, Brazil</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td>Institut des Hautes Estudes Scientifiques</td>
<td>Visiting Member</td>
</tr>
<tr>
<td>Bures-sur Yvette, France</td>
<td></td>
</tr>
<tr>
<td>Mathematics Institute of the University of Warwick</td>
<td>Dynamical Systems Year Visitor</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

5. ACADEMIC AND PROFESSIONAL HONORS (NON-FINANCIAL) (do not include grants or other financial awards listed in section 7)

1972  One hour talk on Dynamical Systems, Filtrations and Entropy, 77th Summer Meeting of the American Mathematical Society, Hanover, NH

1989  Elected Fellow of the New York Academy of Sciences

1991  One hour invited talk on The Computational Complexity of Bezout's Theorem Annual Meeting of the Australian Math Society, Melbourne, July

2000  One hour invited address Joint Meeting of The AMS and Hong Kong Math Society, Hong Kong, China, December 2000

2000  Elected Fellow of the American Association for the Advancement of Science

2003  Conference in Honor of Michael Shub - University of California at Berkeley, August 18-22, 2003

2006  45 minute Sectional Speaker “Ordinary Differential Equations and Dynamical Systems” International Congress of Mathematicians, Madrid, Spain

2008  Appointed Profesor Honorario Universidad de Buenos Aires

11/20/17
2010  Elected Fellow of the Fields Institute

2011  One hour invited address Centennial Congress of the Spanish Royal Society of Mathematics

2012  From Dynamics to Complexity A conference celebrating the work of Mike Shub May 07 - 11, 2012 hosted by the Fields Institute


2016  Fulbright Specialist Roster

2016  Elected Fellow of the American Mathematical Society

6. RESEARCH, SCHOLARSHIP, AND CREATIVE WORK

A. Peer and Critically Reviewed Work
   (1) Books and book chapters


   (2) Journal articles

Epstein D., and Shub M. Expanding endomorphisms of flat manifolds. Topology, 7 (1968) no.2, 139-141.


Pugh C., and Shub M. *Axiom A actions*. Inventiones Mathematicae, 29 (1975), no. 1, 7-38.


Blum L., Shub M., and Smale S. On a theory of computation and complexity over the real numbers: NP-


Adler R., Kitchens B., and Shub M. Stably ergodic skew products. Discrete and Continuous Dynamical


Beltrán C., and Shub M., *On the geometry and topology of the solution variety for polynomial system


3 Refereed conference proceedings


Shub M. *Topological entropy and stability*. Dynamical Systems—Warwick 1974, Lecture Notes in Math,


(4) Critically reviewed work (e.g. exhibitions, performances, art work, works of architecture, landscape architecture, and urban design, curricular, audiovisual, or online materials, etc.) with description of works and venue, and reference to published critical review(s).

B. Other Scholarly Work (not peer/critically reviewed) (1) Invited articles

(2) Conference proceedings and presentations

**Invited Addresses:**

- One hour talk on Dynamical Systems, Filtrations and Entropy, 77th Summer Meeting of the American Mathematical Society, Hanover, NH, 1972.
- One hour talk at the Northwestern University International Conference on Dynamical Systems, June 1979.
- Twenty minute talk Special Session "Differential Equations and Homology", American Math Soc.
Conference, Howard University, October, 1979.
• One hour talk on the Cost of Solving Polynomial Equations, International Symposium on Dynamical Systems, IMPA, 1981.
• Six hours of talks at the Fourth International Symposium on Differential Equations and Differential Geometry, Peking University, Beijing, China, August 29 - September 10, 1983.
• One hour talk on "Remarks on Dynamical Systems and Numerical Analysis", Seventh Latin American School of Mathematics, Caracas, Venezuela, July 16-24, 1984.
• One hour talk on "The QR Algorithm, Linearly Induced Morse-Smale Systems and the Toda Lattice", Kovalevskaya Symposium, Association for Women in Mathematics, Radcliffe College, October 27-28, 1985.
• One hour talk on Solving Polynomial Equations at the MSRI Geometric Complexity Workshop January 1986.
• Twenty minute invited talk at the ORSA-TIMS Annual Meeting, Washington D.C., April 1988.
• One hour invited talk at Mid West Dynamics Seminar, Evanston, May 2, 1988.
• Forty-five minute talk on Real Machines for Solving Complex Problems at the Special Sessions on Complex Analysis - Annual Meeting of AMS, Phoenix, January 1989.
• Twenty minute talk on Discrete approximation to Invariant Manifolds for Differential Equations at the Special Sessions on Foundation of Complexity Theory for Numerical Analysis - Annual Meeting of AMS, Phoenix, January 1989.
• Forty-five minute talk on Small Entropy Factors, Dynamics Days, Austin, Texas, January 1990.
• Three one hour talks at the IMPA Complexity Workshop, Rio de Janeiro, January 1990.
• One hour talk (one of five invited lectures) MEGA '92 , Nice, France April 1992.
• One hour and a half and forty five minute invited talks at Parametric Optimization and Complexity Pfalzakademie June 8-12, 1992 on "Complexity Theory" and" Complexity of Homotopy Methods and Bezout's Theorem".
• Principal speaker with Lenore Blum and Steve Smale at Complexity and Computability over the Reals conference at the Boston University Dynamical Systems Institute. Four one hour lectures. July 19-23, 1992.
• One hour invited talk at the MSI Real Algebra and Geometry Workshop August 24-28, 1992 "Volume Estimates, Starting Points and a Packing Problem".
• Jane and Roland Blumberg Lecture - University of Texas at Austin, April, 1993.
• 20 minute invited talk at the Special Session on Computational Problems Involving Polynomials, Eastern Sectional Meeting of Amer. Math. Soc. Syracuse University, September, 1993.
• One hour Plenary address 2nd Caribbean Conference on Approximation and Optimization, Havana, September, 1993.
• One hour invited talk Continuous Algorithms and Complexity Workshop, Barcelona, October, 1993.
• 3 hour invited address at SEA 93, Centre International de Recherche Mathematiques, Luminy, France, November, 1993.
• 1 hour Palestra de Excelencia da Soc. Bras. Mat., University of Sao Paulo, 1994.
- Plenary address at Colloquium Carolus Magnus: 1200 Years of Science in Central Europe, March 1995.
- Plenary address at Mathematics of Numerical Analysis-Real Number Algorithms, Park City, Utah, July-August 1995.
- Forty minute invited talk at the special session on "Geometric and Hyperbolic Dynamics" AMS meeting, Boston, October 1995.
- One hour talk on Complexity at the dedication of the Mathematical Sciences Research Center, City University of Hong Kong, January 1996.
- One hour talk at Symposium on Complexity, TJ Watson Research Center, May 1996.
- One hour talk at Dynamics Day, City University of Hong Kong, June 1996.
- One hour talk at Beijing International Conference on Dynamical Systems, June 1996.

- One hour talk at PUC International Conference on Differential Geometry and Dynamical Systems, Rio de Janeiro, August, 1996.
- One hour talk at the Real Machines and Homotopy Workshop, FoCM, IMPA, Rio de Janeiro, Jan 5-11, 1997.
- One hour talk at the Geometry and Complexity Workshop, Fields Institute, May 5-11, 1997.
- Principal lecturer (three hours of keynote addresses) at Rencontres Mathematiques-Complexity and Real Computation, Ecole Normale Superieure, Lyon March 1998.
- One hour talk Midwest Dynamical Systems Seminar, Ann Arbor Michigan, April 15-18, 1999.
- One hour talk Solving Systems of Equations Workshop, FoCM Semester, City University of Hong Kong, October 11-15, 1999.
- One hour plenary address Year 2000 International Conference on Dynamical Systems and Differential Equations, Kennesaw State University, May 18-21, 2000
- One hour plenary address Session on Algebraic Algorithms and Algebraic Complexity, IMACS/ACA'2000, St. Petersburg, June 24-28, 2000
- One hour plenary address International Conference on Foundations of Computational Mathematics in Honor of Professor Steve Smale's 70th Birthday, City University of Hong Kong, July 13-17, 2000
- One hour plenary address International Conference on Dynamical Systems, IMPA, Rio de Janeiro, July 19-28, 2000
- Forty minute invited address Special Session on Computational Algebraic Geometry at the 2001 Spring Eastern Sectional Meeting of the American Math Soc.
- One hour plenary address Mathematical problems of Non-Linear Dynamics, University of Nizhny Novgorod, Russia, July, 2001
- One hour plenary address Dinamica Caotica Real e Conservativa, IMPA, Rio de Janeiro, January 2002.
- One hour semi-plenary address in the Computational Algebraic Geometry Workshop at FoCM2002, Minneapolis, Minnesota, August, 2002.
- One hour plenary address New Directions in Dynamical Systems, Kyoto, August, 2002.
- One hour invited address Midwest Dynamical Systems Seminar, Northwestern University, April, 2003.
- One hour plenary address Recent Trends in Dynamical Systems, Porto, Portugal July, 2003
- One half hour invited address on Dynamical Systems at the International Congress of Mathematical
Physics, Lisbon, July, 2003
• One hour invited address Dynamical Systems and Modeling Workshop Honoring the Hundred Birthday of John Von Neumann, Academy of Sciences, Budapest, Hungary October, 2003
• One hour invited address Partial Hyperbolicity and Dynamics Workshop, Buzios, Brazil, November 2004.
• One hour Plenary Address international Symposium on Dynamical Systems and Numerical Analysis in Honor of TY Li’s 60th Birthday, National Center of Theoretical Science, Taiwan, May 2005
• One hour invited address Numerics on Manifolds, Luminy, France, May 2005
• Four Lecture Short Course (with C.Pugh) XIV Escuela Latino Americana de Matematica (ELAM), Solis, Uruguay, December 2005
• One hour invited address, University of Maryland – Penn State Spring Dynamics Meeting in honor of Jasha Sinai’s 70th birthday
• One hour invited address in honor of Carles Simo’s 60th birthday.
• 45 Minute Sectional Speaker “Ordinary Differential Equations and Dynamical Systems” International Congress of Mathematicians, Madrid Spain 2006
• 50 Minute invited talk Dynamical Systems Special Session at CMS 2006 Annual Meeting, Toronto
• Two hour tutorial lecture on condition numbers and the solution of systems of equations at the Zero Problem Workshop at the Korean Institute for Advanced Studies, Seoul, 2007
• Two hours at the “Chaos and Ergodicity of Realistic Hamiltonian Systems” workshop, CRM, Montreal, December 2007
• 1 hour invited talk at “Dynamics and Complexity” workshop, Montevideo, Uruguay, May, 2008
• 45 Minute invited talk in the Special Session on “Complexity”, AMS-SBM Joint International Meeting, Rio de Janeiro, 2008
• 1 hour invited talk at the “Real Computation and Complexity” workshop at the Foundations of Computational Mathematics international meeting, Hong Kong, 2008.
• 1 hour invited talk MEGA, Barcelona Spain 2009
• 1 hour invited address International Conference on Dynamical Systems, Buzios, Brazil February, 2010
• 1 hour invited talk MEGA, Barcelona Spain 2009
• 1 hour invited address International Conference on Dynamical Systems, Buzios, Brazil February, 2010
• 1 hour plenary talk MATH AMSUD Workshop, Complexity and Solution of Systems of Polynomial Equations, Montevideo, Uruguay, April 11-15, 2011
• ICERM Topical Workshop: "Mathematical Aspects of P versus NP and its Variants" (August 1-August 5, 2011) One hour talk
• Coloquio Uruguayo de Matemática 20-22 December 2011 40 Plenary address.
• 1 hour plenary talk MATH AMSUD Workshop, Complexity of Algorithms for Solving Equations, Paraty, Brasil, April 16-20, 2012
• 2 hours School of talks in the School of Mathematics “Luis Santalo”, Recent Progress in Real Complexity and Computation, Santander, Spain July 16-20, 2012
• AMS-SIAM Invited Speaker SIAM Annual Meeting San Diego, July 2013
• 40 minute invited talk Mario Wschebor Memorial Conference, Solis Uruguay, December 2013
• 25-minute invited talk polynomial Systems Solving Workshop, Simons Institute, October 2014
• 35 minute invited talk Sphere Packings, Lattices and Designs Workshop, Erwin Schrodinger Institute, Vienna, October, 2014
• 1 hour invited talk Beyond Uniform Hyperbolicity, Provo, Utah, July 2017
• 1 hour invited talk Workshop on Hyperbolic Dynamics, ICTP Trieste July 2017
• 25 minute invited address From Computation to Information, Cambridge, England August 31-September 1, 2017

(3) Other articles and contributed presentations

(4) Book reviews or articles that assess others' work


(5) Other scholarly and creative work (e.g. exhibitions, performances, art work, works of architecture, landscape architecture, and urban design, curricular, audiovisual, or online materials, etc.) with description of works and venue as applicable.

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<thead>
<tr>
<th>Colloquium and Seminar Lectures Delivered:</th>
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<tbody>
<tr>
<td>1967-1968</td>
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<tr>
<td>Princeton University</td>
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<td>1969-1970</td>
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<tr>
<td>Northeastern University, Boston College, Universite de Geneve</td>
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<tr>
<td>1970-1971</td>
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<tr>
<td>The Johns Hopkins University colloquium; Yale University colloquium; Northwestern University colloquium</td>
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<tr>
<td>1971-1972</td>
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<tr>
<td>Northeastern University, Massachusetts Institute of Technology, SUNY at Albany colloquium; University of California at Berkeley</td>
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<tr>
<td>1972-1973</td>
</tr>
<tr>
<td>University of Chicago colloquium; University of California at Berkeley; M.I.T.; Queens College colloquium; SUNY at Stony Brook; Brown University</td>
</tr>
<tr>
<td>1974-1975</td>
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<tr>
<td>I.B.M.; SUNY at Stony Brook; Rutgers University</td>
</tr>
<tr>
<td>1975-1976</td>
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<tr>
<td>University of California at Berkeley colloquium; New Jersey Institute of Technology College Industry Seminar series; Yale University; Brandeis University-M.I.T.-Harvard joint colloquium.</td>
</tr>
<tr>
<td>1977-1977</td>
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<tr>
<td>Colloque des Universites Parisiens, I.H.E.S., Orsay.</td>
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<td>1977-1978</td>
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<tr>
<td>Fordham colloquium, Yale University of California at Berkeley</td>
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<td>1978-1979</td>
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<tr>
<td>University of California, Los Angeles; University of California, Berkeley; University of Pennsylvania; I.H.E.S.</td>
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<tr>
<td>1979-1980</td>
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<td>Columbia University</td>
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<td>Year(s)</td>
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<td>1980-1981</td>
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<td>2010</td>
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<td>2011</td>
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</tbody>
</table>
2012 | IMPA, Dynamics Seminar, Math Colloquium Universidad de la Republica, Montevideo, Federal University of Rio de Janeiro, Math Colloquium, CUNY Topology Seminar
---|---
2013 | Universidad Nacional Cordoba, Lie Groups and Differential Geometry Seminar, University of Buenos Aires Math Colloquium, Bronx Community College of CUNY Mathematics Colloquium, Universidad de la Republica, Montevideo, Dynamics Seminar
2014 | Mathematics Colloquium, PUC Santiago, Chile, Polynomial System Solving Seminar, Simons Institute, Berkeley, Dynamical Systems Seminar, Universidad de la Republica, Montevideo
2016 | Math Colloquium, CCNY
2017 | Dynamical System Seminar, IMPA

7. GRANTS, FELLOWSHIPS, AND AWARDS
(list in reverse chronological order)

Guidelines: Include the principal investigator/awardee, date/period of award, total amount (if applicable), and candidate’s share (if applicable).

(1) Grants

| 7/73-08/05 | Principal Investigator, National Science Foundation research grant. |
| 2004 | NSERC Discovery Grant 2004-2009 |

**NSF**

Dynamical Systems and Topology
Award Number: 7407040; Principal Investigator: Michael Shub; Co-Principal Investigator: ; Organization: CUNY Queens College; NSF Organization: DMS Start Date: 07/01/1974; Award Amount: $46,600.00; Relevance: 96.0;

NSF grant MCS 78-02721 I did not find records for this grant.

Dynamical Systems and Topology (Mathematical Sciences)
Award Number: 8201267; Principal Investigator: Michael Shub; Co-Principal Investigator: Dennis Sullivan; Organization: CUNY Queens College; NSF Organization: DMS Start Date: 06/01/1982; Award Amount: $302,610.00; Relevance: 96.0;

Dynamical Systems and Differential Geometry
Award Number: 8313076; Principal Investigator: Michael Shub; Co-Principal Investigator: Richard Sacksteder; Organization: CUNY Graduate School University Center; NSF Organization: OISE Start Date: 02/01/1984; Award Amount: $16,425.00; Relevance: 96.0;

11/20/17
The data above is taken from publically available NSF data except for NSF grant MCS 78-02721. I found no publically available data for this grant. I did recognize it in publications.

**NSERC**

Shub, Michael Dynamical systems and complexity 33,000 2004-2005 Discovery Grants Program – Individual

Shub, Michael Dynamical systems and complexity 33,000 2005-2006 Discovery Grants Program – Individual

Shub, Michael Dynamical systems and complexity 33,000 2006-2007 Discovery Grants Program – Individual

Shub, Michael Dynamical systems and complexity 33,000 2007-2008 Discovery Grants Program – Individual

Shub, Michael Dynamical systems and complexity 33,000 2008-2009 Discovery Grants Program
Shub, Michael Complexity and real number computations and dynamical systems 28,000 2009-2010 Discovery Grants Program – Individual

Shub, Michael Complexity and real number computations and dynamical systems 27,941 2010-2011 Discovery Grants Program - Individual

Salaries at the University of Toronto were 12 month salaries. The NSERC grants above had no salary for me. The data is taken from publically available NSERC data.

(2) Contracts

(3) Awards

2017 Smale Institute Award ($15,000)

(4) Fellowships and scholarships

6/64-6/67 N.S.F. Graduate Fellowship

9/72-8/74 Alfred P. Sloan Foundation Research Fellowship

8. PROFESSIONAL ACTIVITIES
(list in reverse chronological order, including dates/periods)

(1) Inventions and patents (including patent numbers)

United States Patent 6,662,148 December 9, 2003

Computation of shapes of three-dimensional linkage structures based on optimization techniques

Adler; Roy L. (Chappaqua, NY), Dedieu; Jean-Pierre (Toulouse Cedex, FR),

Kalvin; Alan D. (Irvington, NY), Margulies; Joseph Y. (Pleasantville, NY),

Martens; Marco (Chappaqua, NY), Shub; Michael (New York, NY)

11/20/17
United States Patent 6,807,530 October 19, 2004
Method and apparatus for remote commerce with customer anonymity
Shub; Michael (New York, NY), Tresser; Charles Philippe (Mamaroneck, NY), Wu; Chai Wah (Ossining, NY)

United States Patent 6,873,977 March 29, 2005
Achieving buyer-seller anonymity for unsophisticated users under collusion amongst intermediaries
Aggarwal; Alok (Chappaqua, NY), Dubey; Pradeep K. (New Delhi, IN), Jutla;
Charanjit Singh (Elmsford, NY), Kumar; Vijay (New Delhi, IN), Martens;
Marco (Chappaqua, NY), Shub; Michael Ira (New York, NY), Tresser; Charles P.
(Mamaroneck, NY), Wu; Chai Wah (Poughquaq, NY)

Data management system and method
Lacan; Francis M. (London, GB), Perez; Ronald (Mount Kisco, NY), Shub;
Michael I. (New York, NY), Tresser; Charles P. (New York, NY)

United States Patent 7,818,581 October 19, 2010
Data management system
Lacan; Francis M. (London, GB), Perez; Ronald (Mount Kisco, NY), Shub;
Michael I. (New York, NY), Tresser; Charles P. (New York, NY)

(2) Leadership roles and accomplishments

(3) Accrediting or licensing boards

(4) Industry boards

1999 | University Relations Task Force, IBM Research

(5) Government panels

1989 | Science and Technology Centers Panel NSF. Led University of Maryland Science & Technology Center site visit, April
<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
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<tbody>
<tr>
<td>1999</td>
<td>Optimization Panel, National Science Foundation - Computer Science</td>
</tr>
<tr>
<td>2002</td>
<td>CNRS Comité d’Évaluation du Laboratoire de Topologie et du Laboratoire Gevrey de Mathematiques Physique de l’ Université de Bourgogne</td>
</tr>
</tbody>
</table>

(6) Conference boards, panels, workshops, etc.

<table>
<thead>
<tr>
<th>Year</th>
<th>Description</th>
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</table>
| 1984 | Workshop on the Geometry & Topology of Dynamical Systems (with John Franks)  
- MSRI, Berkeley, June 1994 |
<p>| 1986 | Workshop on Geometric Complexity (with S. Smale and A. Chorin) MSRI, Berkeley, January, 1986 |
| 1988 | Organized sessions on “Variations of Newton’s Method on Mathematical Programming I and II” for the International Symposium on Mathematical Programming, Tokyo, August, 1988 |
| 1992 | Organizing Committee for International Meeting for Continuous Algorithms and Complexity at the 12th World Computer Congress- IFIPS 92 Madrid, Spain, September 1992 |
| 1994 | Program Committee for Workshop on Geometry, Topology and Markets, Fields Institute, July 1994 |
| 1995 | Organizing Committee for Mathematics of Numerical Analysis – Real Number Algorithms, Park City, Utah July-August 1995 also organized the Workshop on Real Machines (with Cucker) and the panel discussion “Does Numerical Analysis Need a Model of Computation?” with participants A.Chorin, A.Iserles, B.Parlett, S.Smale and S.Winograd at this meeting. |
| 1995 | Scientific Committee for Solutions d’Equations Algebrique 95, CIRM Luminy, France, November 13 -17, 1995 |</p>
<table>
<thead>
<tr>
<th>Year</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>1995</td>
<td>Organizing Committee for Real Computation and Complexity Workshop, Dagstuhl Germany, Novembemr 6-10, 1995</td>
</tr>
<tr>
<td>1996</td>
<td>Organizing Committee for Symposium on Complexity (in honor of Shmuel Winograd’s 60th birthday) TJ Watson Research Center, May 1996 (with Alok Aggarwal and Alan Hoffman)</td>
</tr>
<tr>
<td>1997</td>
<td>Chair of the Organizing Committee “Foundations of Computational Mathematics” IMPA, Rio de Janeiro, January 5-11, 1997</td>
</tr>
<tr>
<td>1998</td>
<td>Co-chair Organizing Committee for MSRI Semester on Foundations of Computational Mathematics (with Felipe Cucker and Arieh Iserles)</td>
</tr>
<tr>
<td>2000</td>
<td>Program Committee-International Conference on Computational Mathematics in Honor of Professor Steve Smale’s 70th Birthday, City University Hong Kong, July 13-17, 2000</td>
</tr>
<tr>
<td>2002</td>
<td>Executive, Plenary and Workshop Committees for FoCM2002, Minneapolis, Minn., August 2002</td>
</tr>
<tr>
<td>2002</td>
<td>CNRS Commite d’Evaluation du Laboratoire de Topologie et du Laboratoire Gevrey de Mathematiques Physique de l’ Université de Bourgogne</td>
</tr>
<tr>
<td>2004</td>
<td>Advisory Commission of the Centre of Mathematics of the University of Porto (CMUP)</td>
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<tr>
<td>Year</td>
<td>Activity</td>
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<tr>
<td>2005</td>
<td>Executive, Plenary and Workshop Committees for FoCM 2005, Santander Spain, July 2005</td>
</tr>
<tr>
<td>2006</td>
<td>Organizer, Partially Hyperbolic Dynamics, Laminations and Teichmuller Flow, January 5 - 9, 2006 Fields Institute</td>
</tr>
<tr>
<td>2007</td>
<td>Organizer, Foundations of Computational Mathematics Thematic Program.</td>
</tr>
<tr>
<td>2009</td>
<td>Co-Organizer with Teresa Krick, Felipe Cucker, Adrian Lewis, Askold Khovansky of the Workshop on Complexity of Numerical Computation at the Fields Institute, Oct 20 - 24, 2009 Co-organizer with Teresa Krick and Adrian Turjansky &quot;CI3 - Conferencias Internacionales de Investigación Interdisciplinaria&quot;New paradigms in the relationship between Mathematics and the</td>
</tr>
<tr>
<td>2012</td>
<td>Applied Sciences Learning Theory and Immunology, Universidad de Buenos Aires, April 9 -13, 2012</td>
</tr>
<tr>
<td>2017</td>
<td>Co-Organizer with Steve Smale and Indika Rajapakse Workshop on Computational Biology with Emphasis on the Genome, Foundations of Computational Mathematics, Barcelona, July 2017</td>
</tr>
</tbody>
</table>

(7) Review panels

(8) Editorial panels and/or agencies, journals or presses for whom the candidate is a reviewer

<table>
<thead>
<tr>
<th>Year</th>
<th>Activity</th>
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</thead>
<tbody>
<tr>
<td>1983 - 86</td>
<td>Member at Large of the Council of the American Mathematical Society</td>
</tr>
<tr>
<td>1985 - 86</td>
<td>Nominating Committee of the American Mathematical Society</td>
</tr>
<tr>
<td>1989</td>
<td>Science and Technology Centers Panel NSF. Led University of Maryland Science &amp; Technology Center site visit, April</td>
</tr>
<tr>
<td>1990 - 94</td>
<td>AMS-IMS-SIAM Committee on Joint Summer Research Conferences in Mathematics</td>
</tr>
<tr>
<td>1990 - 93</td>
<td>AMS-SIAM Committee on Applied Mathematics</td>
</tr>
<tr>
<td>1995 - 1997</td>
<td>Founding Chair of Foundations of Computational Mathematics</td>
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<tr>
<td>1997 - 1999</td>
<td>Ex-Chair of Foundations of Computational Mathematics</td>
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<tr>
<td>1999</td>
<td>Optimization Panel, National Science Foundation - Computer Science</td>
</tr>
<tr>
<td>1999</td>
<td>University Relations Task Force, IBM Research</td>
</tr>
<tr>
<td>1999 - 2014</td>
<td>Board of Directors, Society for the Foundations of Computational Mathematics</td>
</tr>
<tr>
<td>2002</td>
<td>CNRS Comité d'Évaluation du Laboratoire de Topologie et du Laboratoire Gevrey de Mathématiques Physique de l’ Université de Bourgogne</td>
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<tr>
<td>Year</td>
<td>Activity</td>
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<tr>
<td>2004</td>
<td>Advisory Commission of the Centre of Mathematics of the University of Porto</td>
</tr>
<tr>
<td>2005</td>
<td>University of Buenos Aires, Hiring and Promotion Review Committee</td>
</tr>
<tr>
<td>2007</td>
<td>CMS Committee to propose Canadian speakers in “ODE and Dynamical Systems” to the ICM 2010</td>
</tr>
<tr>
<td>2007</td>
<td>Committee to Select Plenary Speakers for the AMS-SBM Joint International Meeting, Rio de Janeiro, 2008</td>
</tr>
<tr>
<td>2008</td>
<td>Chair, FOCM Nominating Committee for the Chair, Secretary and Treasurer Chair, FoCM Committee to Select Plenary Speakers for 2011</td>
</tr>
<tr>
<td>2009</td>
<td>FoCM Nominating Committee for the next Chair, Secretary, Treasurer</td>
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<tr>
<td>2010</td>
<td>2011 and 2012 CRM-Fields-PIMS Prize Selection Committee</td>
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<tr>
<td>2010 - 2012</td>
<td>Miembro de la Comisión Evaluadora de los Investigadores de Matemática PEDICEBA</td>
</tr>
<tr>
<td>2013</td>
<td>Department of International Relations of the Chilean National Commission for Scientific and Technological Research (CONICYT) Comision Evaluadora</td>
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**Editorial Boards**

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<tr>
<th>Year</th>
<th>Journal</th>
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<tbody>
<tr>
<td>1987-1997</td>
<td>Applied Math Letters</td>
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<tr>
<td>1994-2000</td>
<td>Discrete and Continuous Dynamical Systems</td>
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<tr>
<td>1999-2002</td>
<td>Founding Managing Editor, Foundations of Computational Mathematics (Editorial board, 2002-present)</td>
</tr>
<tr>
<td>2000-2004</td>
<td>Ergodic Theory and Dynamical Systems</td>
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<tr>
<td>2006-2014</td>
<td>Journal of Fixed Point Theory and Applications, Associate Editor</td>
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</tbody>
</table>

(9) Consulting
(10) Membership in professional societies

<table>
<thead>
<tr>
<th>Year</th>
<th>Position</th>
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<tbody>
<tr>
<td>1983 - 86</td>
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<td>AMS-SIAM Committee on Applied Mathematics</td>
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<td>Ex-Chair of Foundations of Computational Mathematics</td>
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<td>1999 - 2014</td>
<td>Board of Directors, Society for the Foundations of Computational Mathematics</td>
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<tr>
<td>2007</td>
<td>Committee to Select Plenary Speakers for the AMS-SBM Joint International Meeting, Rio de Janeiro, 2008</td>
</tr>
<tr>
<td>2008</td>
<td>FoCM Committee to Select Plenary Speakers for 2011</td>
</tr>
<tr>
<td>2009</td>
<td>FoCM Nominating Committee for the next Chair, Secretary, Treasurer</td>
</tr>
</tbody>
</table>

(11) Community service related to profession

(12) External steering and advisory committees

(13) Curatorial activities

9. **INSTRUCTIONAL ACTIVITIES**

(1) Student evaluations and peer observations

(2) Clinical instruction

(3) Innovative instructional activities, including curriculum and program development

(4) Development of online/hybrid or service learning courses

(5) Any additional material, produced by the candidate that constitutes clear evidence of the candidate's caliber and accomplishment as a teacher
10. ADVISING & MENTORING ACTIVITIES

(1) Academic advising

Ph.D. Students

1971 Hugh Porteous (With D.B.A. Epstein) Existence of Anosov Diffeomorphisms on
Flat Manifolds. Mr. Porteous was a student at Warwick.

1973 Allan Gottlieb -- Necessary conditions for the persistence of Invariant manifolds.
Mr. Gottlieb was a student at Brandeis University.

1977 Michael Maller -- Diffeomorphisms of non-simply connected manifolds. Mr.
Maller was a student at Warwick.

1980 Helena Wisniewski -- Rate of approach of minima and sinks. Ms. Wisniewski was
a student at CUNY.

1985 Diego Bernardete - Topological Equivalence of one parameter subgroups acting on
homogeneous spaces. Mr. Bernardete was a student at CUNY.

1985 Myong-Hi Kim - Computational Complexity of Euler type algorithms for the roots
of complex polynomials. Ms. Kim was a student at CUNY.

1986 Walter Miller - Differentiating Invariant Manifolds for Dynamical Systems with
applications to Melnikov theory. Mr. Miller was a student at CUNY.

2010 Mario Morfin (with Charles Pugh)- Kupka- Smale Theorems for Tangent Bundle
Dynamics. Mr. Morfin was a student at the University of Toronto.

2010 Pablo Carrasco (with Charles Pugh) – Partially Hyperbolic Dynamical Systems.
With All Leaves Compact. Mr. Carrasco was a student at the University of Toronto.

2012 Diego Armentano (with JP Dedieu and Mario Wschebor) Complexity and Random
Polynomials –Universidad de la Republica, Montevideo, Uruguay and Université
Paul Sabatier, Toulouse, France

(2) Student project/research mentoring activities together with descriptions of mentored projects and
list of mentees (as appropriate), and awards/grants won by mentees.

(3) Student development activities (e.g. career options and resume workshops, alumni
networking events, etc.)

(4) Advising activities for student associations and societies
11. SERVICE AT THE CITY COLLEGE AND THE CITY UNIVERSITY

(1) Service and contributions in leadership positions (e.g. Chair, Program Director, etc.)

| 2016- Present | Chair of Mathematics Department at CUNY City College of New York |

(2) Service on departmental, divisional, College, and University-wide committees

(3) Mentoring of junior faculty members

(4) Student recruitment activities

- Honors Linear Algebra taught as a recruiting tool for honors students.
- Establishment of Regional National Math Alliance Center at CCNY.
- Enhancement of Rich Scholarship opportunities for STEM undergraduates.

12. OUTREACH ACTIVITIES

(1) K-12 outreach activities

(2) Community outreach activities and other related volunteer work
THE CITY UNIVERSITY OF NEW YORK

Appointment of Eric Lott
as Distinguished Professor at the Graduate Center

WHEREAS, Professor Eric Lott is an internationally recognized leader in cultural studies, American studies, American literature and culture, transnational studies and critical race studies; and

WHEREAS, In addition to three highly acclaimed books, Black Mirror: The Cultural Contradictions of American Racism (2017), The Disappearing Liberal Intellectual (2006) and Love and Theft: Blackface Minstrelsy and the American Working Class (1993 and 2013), over 75 articles, short essays and reviews and over 100 invited lectures; Professor Lott has been awarded a Cornell University Society for the Humanities Fellowship, a University of Virginia Sesquicentennial Fellowship, a Princeton University Council for the Humanities Visiting Fellowship and a National Endowment for the Humanities Fellowship; now therefore be it

RESOLVED, That the Board of Trustees of The City University of New York appoint Eric Lott as Distinguished Professor of English at the Graduate Center effective November 1, 2018, with compensation of $28,594 per annum in addition to his regular academic salary, subject to financial ability.

EXPLANATION: One of his reviewers notes “Both nationally and internationally, Eric Lott has earned a reputation as a leading scholar in cultural studies, having left his mark on fields that include American studies, literary studies, history, critical race studies, theatre and performance studies and music. I can think of no other scholar whose work has achieved the preeminence of Lott’s in such a broad range of disciplines.” Another notes that “Eric is, by any measure, a towering figure in the field of American studies; his ground-breaking work, Love and Theft: Blackface Minstrelsy and the American Working Class, has become a touchstone for recent generations of scholars on matters of popular culture, race and class in the nineteenth-century United States, music and performance, and archival methodologies.” and “The Black Mirror: The Cultural Contradictions of American Racism, is a dazzling and timely consideration of race and fantasy in U.S. culture.” It is “meticulously researched, brilliantly conceived and stunningly written.” As another points out, “If distinction means producing field-changing work that garners the admiration of and informs the scholarship of at least two generations of scholars, then Lott is certainly one of the most worthy scholars I know for that honor.”

Dr. Lott joined the Graduate Center in 2014 as Professor of English and American Studies. Previously, he served as Assistant Professor through Professor of English at the University of Virginia from 1990 to 2014. He earned his M.A. and Ph.D. in English from Columbia University and a B.A. in English from the University of Missouri.

The Graduate Center and The City University of New York will be well-served by Professor Lott’s appointment as Distinguished Professor.
ERIC LOTT

Department of English
City University of New York-
Graduate Center
365 Fifth Avenue
New York, NY 10016

EDUCATION
Ph.D., English, Columbia University, 1991
M.A., English, Columbia University, 1984
B.A., English, University of Missouri, 1981

ACADEMIC AWARDS & FELLOWSHIPS
Cornell University Society for the Humanities Fellowship, 2011-12
University of Virginia Sesquicentennial Fellowship, 2007
Princeton University Council for the Humanities Visiting Fellowship, 2001
National Endowment for the Humanities Fellowship, 1996
Best First Book Prize, Modern Language Association, 1994
Avery O. Craven Award for Best Book on the Period of the Civil War and Reconstruction, Organization of American Historians, 1994
Outstanding Book Award, Gustavus Myers Center for the Study of Human Rights, 1994
Honorable Mention, Barnard Hewitt Book Award for Theatre Research, 1994
University of Virginia Sesquicentennial Fellowship, 1993
Constance Rourke Prize for Best American Quarterly Article, American Studies Association, 1992
Bancroft Dissertation Prize, Columbia University, 1991
Carter G. Woodson Institute for African-American and African Studies Fellowship, 1989
Wise-Susman Prize, American Studies Association, 1988
Columbia University President’s Fellowship, 1984, 1985

TEACHING
Professor of English and American Studies, CUNY Graduate Center, 2014-
Visiting Distinguished Professor, City University of New York Graduate Center, 2013-14
Professor of English, University of Virginia, 2000-14
Associate Professor of English, University of Virginia, 1996-2000
Assistant Professor of English, University of Virginia, 1990-96
Instructor, Columbia University, 1985-86
Instructor, Borough of Manhattan Community College, 1983-87
EDITORIAL

Associate Editor, ASAP (Association for the Study of Arts of the Present) Journal, 2016-
Editorial Board, Criticism, 2009-
Editorial Board, American Literature, 2000-02
Editorial Board, Cultural Studies of the United States Series (Alan Trachtenberg, Chair),
Contributing Editor, The Columbia Dictionary of Modern Literary and Cultural Criticism,
Columbia University Press, 1995

CONSULTING & PROGRAM DEVELOPMENT

Co-Director, Futures of American Studies Institute, Dartmouth College, 2008-
Program Committee, American Studies Association, 2013-14
NEH Advisor, American Routes Public Radio Program, 2011-13
Program Committee, 2007 Pop Music Conference, Experience Music Project, Seattle, 2006-07
Script Consultant and Onscreen Interviewee, Stephen Foster, America’s Composer (WITF-Pittsburgh), Public Broadcasting Service, 1998-2000

PUBLICATIONS

Books

Articles


Shorter Essays, Reviews, Journalism, Interviews


“A Strange and Bitter Spectacle: James Allen’s *Without Sanctuary: Lynching Photography in America.*” *First of the Month Online* (June 2002).


Review, Gary Giddins, Celebrating Bird: The Triumph of Charlie Parker. In These Times 11.29


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**INVITED LECTURES & TALKS**

Dartmouth College, American Studies Institute, June 2017

Yale University, Blackstar Rising and the Purple Reign: Celebrating the Legacies of David Bowie and Prince Conference, January 2017

National Portrait Gallery, Smithsonian Institution, Keynote, Symposium on Racial Masquerade, November 2016

Dartmouth College, American Studies Institute, June 2016

UCLA, American Studies Workshop, March 2016

Graduate Center, City University of New York, Hip Hop Excess Panel, November 2015


CUNY Graduate Center, Lisa Lowe’s *The Intimacies of Four Continents* Panel, October 2015

Dartmouth College, American Studies Institute, June 2015

University of Virginia, April 2015

CUNY Graduate Center, Stuart Hall Symposium, March 2015

Brown University, Symposium on Passing, March 2015

Theater for a New Audience, Panel on *An Octoroon*, March 2015

University of Nevada-Reno, February 2015

Arizona State University, Provost’s Lecture, February 2015

Elon University, November 2014

Dartmouth College, American Studies Institute, June 2014

Southern Illinois University-Carbondale, Keynote, English Graduate Student Conference, March 2014

University of Sussex, British Association of Nineteenth-Century Americanists, November 2013

CUNY Graduate Center, Black Atlantic Conference, October 2013

Dartmouth College, American Studies Institute, June 2013

CUNY Graduate Center, February 2013

Mark Twain House, NEH Seminar for Teachers, Hartford, July 2012

Cornell University, April 2012

University of California at Los Angeles, April 2012

CUNY Graduate Center, March 2012

University College Dublin, Clinton Institute for American Studies, Ireland and African
America Conference, March 2012
University of California-Irvine, November 2011
Syracuse University, Stephen Crane Lecture, October 2011
Dartmouth College, American Studies Institute, June 2011
University of Western Sydney, June 2011
National Taiwan Normal University, May 2011
Hampshire College, Eric Schocket Memorial Lecture, April 2011
New York University, Performance Studies, December 2010
Yale University, Music Department, October 2010
Pennsylvania State University, September 2010
Dartmouth College, American Studies Institute, June 2010
University of Massachusetts-Amherst, Sidney Kaplan Lecture, April 2010
Fordham University, October 2009
University of Texas-Austin, Keynote, American Studies Graduate Conference, September 2009
Dickinson College, September 2009
Dartmouth College, American Studies Institute, June 2009
George Mason University, April 2009
Stonehill College, March 2009
University of Richmond, September 2008
University College Dublin, Clinton Institute, July 2008
Dartmouth College, American Studies Institute, June 2008
Hunter College (CUNY), May 2008
Montana State University, April 2008
Graduate Center (CUNY), Minstrel Tradition Symposium, April 2008
University of Pittsburgh, November 2007
Huntington Library, Aesthetics and American Literature Symposium, October 2007
University of Illinois, American Literary History Symposium, September 2007
Dartmouth College, American Studies Institute, June 2007
Middlebury College, March 2007
University of Leeds, February 2007
Emory University, November 2006
John Jay College (CUNY), Terrorism and the University Conference, November 2006
University of Minnesota-Twin Cities, Keynote, Anthropology Graduate Conference, November 2006
San Francisco State University, October 2006
Dartmouth College, Bob Dylan Conference, August 2006
Princeton University, February 2006
Stanford University, February 2006
University College Dublin, Clinton Institute for American Studies, Intellectuals and the Nation-State Symposium, December 2005
Dartmouth College, American Studies Institute, June 2005
University of Washington, April 2005
Experience Music Project, Love and Theft Symposium, Seattle, April 2005
University of California-Berkeley, February 2005
University of Chicago, October 2004
Dartmouth College, American Studies Institute, June 2004
Purdue University, American Studies Department, March 2004
Wayne State University, February 2004
Bowling Green State University, February 2004
Brown University, Performance Studies, November 2003
University of Iowa, Keynote, Midwest American Studies Association, April 2003
University of Vermont, April 2003
University of Maryland, April 2003
University of Toronto, November 2002
Dartmouth College, Cornel West Symposium, October 2002
Dartmouth College, American Studies Institute, June 2002
Haverford College, March 2002
Texas A&M, *Callaloo* Conference, February 2002
Indiana University, February 2002
University of Miami, October 2001
Rice University, October 2001
The Warhol Museum, James Allen’s *Without Sanctuary* Symposium, September 2001
Casa de las Americas, *Callaloo* Conference, Havana, May 2001
University of Illinois, April 2001
Princeton University, February 2001
New York University, Spike Lee’s *Bamboozled* Symposium, November 2000
Dartmouth College, American Studies Institute, June 2000
Stanford University, February 2000
University of California-Irvine, Keynote, Sex, Culture and History Conference, November 1999
University of Minnesota-Twin Cities, October 1999
Michigan State University, Russel Nye Lecture, April 1999
University of California-Santa Barbara, February 1999
Harvard University, Institute for the Arts and Civic Dialogue, July 1998
Northwestern University, May 1998
City College of New York, March 1998
Miami University, December 1997
Vanderbilt University, October 1997
Colgate University, Black Public Intellectuals Symposium, January 1997
Columbia University, October 1996
University of Washington, May 1996
Wesleyan University, Center for the Humanities, March 1996
George Mason University, December 1995
University of Delaware, November 1995
State University of New York-Stony Brook, September 1995
Texas A & M University, March 1995
University of Chicago, American Studies Workshop, November 1994
University of Pennsylvania, Race in the Americas Conference, September 1994
College of William and Mary, July 1994
New York University, Performance Studies, May 1994
University of Southern Maine, April 1994
Wesleyan University, Race and the Production of Culture Conference, April 1994
University of Michigan, April 1994
Rutgers University, Political Geographies of Race Conference, February 1994
College of William and Mary, October 1992
Sonneck Society for American Music, Baton Rouge, February 1992
Dartmouth College, Cultures of U.S. Imperialism Conference, November 1991

CONFERENCE
Panelist, “The Dissent Mixtape,” American Studies Association, Chicago, November 2017

PANELS & OTHER
Cameo Appearance, “Race Is Not a Costume,” The Daily Show with Trevor Noah, 26 October 2017

APPEARANCES
“Rocky Mountain High: John Denver and Cultures of 1970s Excess,” ASA, Denver, November 2016
Panelist, “Monuments and Anti-Monuments to the 1970s,” Association for the Study of Arts of the Present Conference, Greenville, September 2015
Panelist, “The Imp of Tradition in 70s Pop,” EMP Pop Conference, Seattle, April 2015
Chair, “I Want My ASA, or, W(h)ither American Studies?” ASA, Los Angeles, November 2014
Panelist, “Transnational Musics,” ASAP Conference, Detroit, October 2013
“Soulsville: Postindustrial City Space and the Sound of ‘Urban Crisis,’” EMP Pop Conference, New York, April 2013
Panelist, “Object Lessons (on Robyn Wiegman),” ASA, San Juan, November 2012
Panelist, Sound Conference, Cornell University Society for the Humanities, Ithaca, April 2012
Chair and Panelist, “Primitive Accumulation as Fact and Fable,” C19, Berkeley, April 2012
“Andy’s Mick,” ASAP, Pittsburgh, October 2011
Chair and Commentator, “Reparative Warhol,” ASA, Baltimore, October 2011
Chair and Commentator, “Spaces of Radicalism in Postwar Detroit,” Detroit, Global City: The Motor City in the World Conference, Detroit, September 2011
“Back Door Man: Jim Morrison Between Watts and the Summer of Love,” MLA, Los Angeles, January 2011
“Behemoth: Cornelius Mathews and the Fantasy Called American Literature,” C19 Inaugural Conference, Penn State University, May 2010
Chair and Commentator, “Regimes of Memory and the Power of Forgetting,” ASA,
Washington, November 2009
“Tar Baby and the Great White Wonder: Joni Mitchell and the Mask of Blackness,”
MLA, San Francisco, December 2008
Panelist, “Celebrity and Racial Cross-Dressing,” ASA, Oakland, October 2006
Guest, C-Span Book TV on The Disappearing Liberal Intellectual, May 2006
Guest, “Addicted to Race,” Podcast discussing television show Black.White, April 2006
“My Barbra Streisand Problem—and Hers,” EMP Pop Music Conference, Seattle, April 2006
Chair, “Reperiodizing the American Nineteenth Century,” MLA, Washington, December 2005
Panelist, “Huckleberry Finn Revisited,” MLA, Washington, December 2005
“You Make Me Feel So Young: Sinatra & Basie & Amos & Andy,” EMP Pop Music Conference, Seattle, April 2005
Panelist, “Cultural Geography and American Studies,” American Association of Geographers, Denver, April 2005
Commentator, “James Weldon Johnson and American Culture,” MLA, Philadelphia, December 2004
Commentator, “Angela’s Ashes and Irish-America,” MLA, New York, December 2002
Panelist, “Left Critique and the War on ‘Terror,’” ASA, Houston, November 2002
Panelist, “The Cultures of Neoliberalism,” ASA, Detroit, October 2000
Chair & Commentator, “Staging Racial Biology,” ASA, Montreal, October 1999
Commentator, “Cultures of Whiteness,” ASA, Kansas City, October 1996
American Academy of Arts and Sciences, Harvard University, Future of Liberal
Education Conference, December 1993
Author Appearance, Him and Her Program, Independent (AM) Broadcasting Network, November 1993
Panelist, “Huckleberry Finn and American Culture,” ASA, Boston, November 1993
Commentator, “Vaudeville and American Social History,” OAH, Anaheim, April 1993
New York Institute for the Humanities, Realism in American Culture Seminar, December 1992–April 1993
Panelist, “Wilding, Cruising, and Blacking Up: Geometries of Race and Gender,” ASA, Costa Mesa, November 1992
Guest, In the Mix Program on Elvis Presley, Radio National, Sydney, Australia, August 1991
Guest, Daybreak Program on Elvis Impersonators, Radio National, Sydney, Australia, July 1991
“Theorizing the Popular,” California ASA, Santa Cruz, May 1989

SERVICE

National

John Hope Franklin Book Prize Committee, American Studies Association, 2015
Program Committee, American Studies Association, 2013-14
Executive Board, C19: The Society of Nineteenth-Century Americanists, 2010-12
Co-Director, Dartmouth American Studies Institute, 2008-2009
Program Committee, Experience Music Project Pop Music Conference, Seattle, 2006-07
Distinguished Speakers Bureau, American Studies Association, 2004-2005
MLA Division Executive Committee, Nineteenth-Century American Literature, 2001-05
Ralph Henry Gabriel Dissertation Prize Committee, American Studies Association, 2003
Wise-Susman Prize Committee, Chair, American Studies Association, 2000
Best First Book Prize Committee, Modern Language Association, 1998-99
Constance Rourke Prize Committee, American Studies Association, 1997

University

Boards

Virginia Film Festival Faculty Board, 1993-2003
UVA Women’s Studies Executive Board, 1989-97
UVA Women’s Center Coordinating Council, 1989-94

Administration

CUNY GC English Department Executive Officer, 2017-
UVA Director of Graduate Studies in English, 1997-2000
<table>
<thead>
<tr>
<th>Committees</th>
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<tbody>
<tr>
<td>CUNY GC English Department Admissions Committee, 2015-16</td>
<td>CUNY GC Faculty Membership Committee, 2014-15</td>
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<td>UVA English Department Curriculum Self-Study Committee, 1994-95</td>
<td>UVA English Department Undergraduate Committee, 1991-93</td>
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<td>UVA University Committee on Sexual Assault and Judicial Review, 1992-96</td>
<td>UVA Women’s Center Committee on Sexual Harassment, 1991-94</td>
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<td>UVA Women’s Center Committee on Staff, 1989-91</td>
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<tr>
<th>Presentations</th>
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<tbody>
<tr>
<td>CUNY GC Black Lives Matter Pedagogies</td>
<td>CUNY GC Reperiodizing American Literary Studies</td>
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<tr>
<td>CUNY GC Critical Karaoke</td>
<td>UVA Unforgettable Lectures Series</td>
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<td>UVA Women’s Studies Lectures</td>
<td>UVA Division of Continuing Education Lectures</td>
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<tr>
<td>Carter G. Woodson Institute for African-American and African Studies</td>
<td>UVA Department of Sociology</td>
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<td>UVA Department of Music</td>
<td>UVA Jazz Festival</td>
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<td>UVA Graduate English Student Association</td>
<td>UVA Center for the Liberal Arts</td>
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<td>Virginia Film Festival</td>
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<td>UVA Art Museum</td>
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</table>
THE CITY UNIVERSITY OF NEW YORK

Appointment of Nari Ward
as Distinguished Professor at Hunter College

WHEREAS, Professor Nari Ward is an internationally recognized artist; and

WHEREAS, In addition to 27 solo exhibitions and 80 group exhibitions between 1993 and 2017 and pieces in the collections of the Museum of Modern Art; the Brooklyn Museum; the Whitney Museum of American Art; Musee d’Art Moderne Grand-Duc Jean, Luxembourg; and GAM, Galleria Civica di Arte, Torino, Italy, Professor Ward received the 2017 $100,000 Vilcek Prize, recognizing contributions of immigrants to American culture, the 2015 Joyce Foundation Award for a major commission in Detroit, the 2012 Rome Prize from the American Academy of Rome, and was the first recipient, of the American Academy of Arts and Letters Willard L. Metcalf Award in 1998; now therefore be it

RESOLVED, That the Board of Trustees of The City University of New York appoint Nari Ward as Distinguished Professor of Art at Hunter College effective November 1, 2018, with compensation of $28,594 per annum in addition to his regular academic salary, subject to financial ability.

EXPLANATION: One of his reviewers notes that Professor Ward “is a deservedly celebrated high profile stellar artist who intelligently tackles deeply complex issues of identity and race, while at the same time engaging in what are substantively inventive material explorations. He does this with a visual beauty that draws one in even as it speaks unashamedly and fearlessly. His contribution to his field is remarkably rich and critically engaged. His work is at once poetic and political.” Another notes that “Ward’s work encompasses extraordinary range both in terms of the abundance of references invoked by the work, which are regional, global, populist and specialized, and also in terms of the craft, skill and genre it embraces: Ward works with sculpture, painting, materials of all kinds, performance and stage design, bringing the same succinct intelligence to all.” “Nari Ward has been tremendously influential and his career has spanned many countries.” As another points out “I cannot recommend strongly enough that he be promoted to Distinguished Professorship. Nari Ward is regarded nationally and internationally as one of the world’s premiere visual artists working today. He has played a critical role in the development of artistic practice and concepts and has garnered the attention of some of the art world’s top experts, all of whom recognize his status as one of the best in his field.”

Professor Ward joined Hunter College’s Department of Art and Art History as an Assistant Professor in 1998, was tenured and promoted to Associate Professor in 2003 and promoted to Professor in 2007. Previously he served as an adjunct Assistant Professor at Hunter College from 1993 to 1997. He earned his M. F.A. from Brooklyn College in 1992 and his BA from Hunter College, cum laude, in 1989.

Hunter College and The City University of New York will be well-served by Professor Ward’s appointment as Distinguished Professor.
Name: Nari Ward

Title: Professor

College: Hunter

Department: Art & Art History

Recommendation for Promotion to: Distinguished Professor

Effective Date:

Annual Salary:
(Subject to Financial ability)

Higher Education

A. Degrees

<table>
<thead>
<tr>
<th>Institution</th>
<th>Dates Attended</th>
<th>Degree and Major</th>
<th>Dates Conferred</th>
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</thead>
<tbody>
<tr>
<td>Hunter College, CUNY, NYC</td>
<td></td>
<td>BA</td>
<td>1991</td>
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<tr>
<td>Brooklyn College, CUNY</td>
<td></td>
<td>MFA</td>
<td>1992</td>
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Additional Higher Education and/or Education in progress: N/A

<table>
<thead>
<tr>
<th>Institution Experience</th>
<th>Dates Attended</th>
<th>Degree and Major</th>
<th>Courses, Etc.</th>
</tr>
</thead>
</table>

A. Teaching in Other Institutions:

<table>
<thead>
<tr>
<th>Institution</th>
<th>Dates</th>
<th>Rank</th>
<th>Department</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skowhegan School of Painting</td>
<td>2003</td>
<td>Resident Faculty</td>
<td></td>
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<tr>
<td>and Sculpture, New York, NY</td>
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</table>

B. Other Non-Teaching: N/A

<table>
<thead>
<tr>
<th>Institution</th>
<th>Dates</th>
<th>Rank</th>
<th>Department</th>
</tr>
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<tbody>
<tr>
<td>Vermont Studio Center</td>
<td>2015</td>
<td>Artist Mentor</td>
<td></td>
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<tr>
<td>Residency, Johnson, VT</td>
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Solo Exhibitions:

2017  Nari Ward: *Sun Splashed*, Institute of Contemporary Art, Boston, MA Socrates Sculpture Park, Long Island City, NY.

2016  Nari Ward: *Sun Splashed*, Barnes Foundation, Philadelphia, PA

2015  Nari Ward: *Sun Splashed*, Perez Art Museum Miami, Miami, FL

Breathing Directions, Lehmann Maupin, New York, NY

So Called, Savannah College of Art and Design Museum, Savannah, GA

2014  Rooted Communities: Nari Ward, LSU Museum of Art, Baton Rouge, LA

2013  Château de Blandy---les---Tours, Blandy, France

Iris Hope Keeper, Galleria Continua, San Gimignano, Italy
Solo Exhibitions (continued):

2012  *Liberty and Orders*, Lehmann Maupin, New York, NY

2011  *We the People*, Fabric Workshop and Museum, Philadelphia, PA

*Domino Men*, Galleria Continua, San Gimignano, Italy

*Nari Ward: Sub Mirage Lignum*, MASS MoCA, North Adams, MA

2010  *Nari Ward: Re-Presence*, Nerman Museum of Contemporary Art, Overland Park, KS

2007  *Salvage Research Soul Training*, University of Connecticut, Storrs, CT

2006  *The Refinery X: A small twist of fate*, Palazzo delle Papesse -- Centro Arte Contemporanea, Siena, Italy

2004  *Saint Peter’s Odyssey Salon*, Deitch Projects, New York, NY

*Great American Revival, Past Presence: Reflection on the Main Line*, Main Line Art Center, Lower Merion, PA

2002  *Episodes*, Isabella Stewart Gardner Museum, Boston, MA

2001  *Attractive Nuisance*, GAM; Galleria d’Arte Moderna, Torino, Italy

*Illuminated Sanctuary of Empty Sins*, Arte all’Arte, Poggibonsi, Italy

*Geography: Bottle Messenger*, Walker Art Center, Minneapolis, MN

2000  *Rites of Way*, Walker Art Center, Minneapolis, MN

1997  *Nari Ward, INOVA -- Institute of Visual Arts*, Milwaukee, WI


1995  *Amazing Grace*, Harlem Firehouse Space, New York, NY

1994  *Idle/Drift*, Magasin, Centre National d’Art Contemporain, Grenoble, France

1993  *Carpet Angel*, The New Museum, New York, NY
Group Exhibitions:

2016  Spots, Dots, Pips and Tiles: An Exhibition Around the Game of Dominoes, Hunter College East Harlem Art Gallery, New York, NY

Mortal Things: Portraits Look Back and Forth, Aidekman Arts Center, Tufts University, Medford, MA

Contemporary Art & Design Biennial, Milan, Italy

For Freedoms, Jack Shainman Gallery, New York, NY

March Madness, Fort Gansevoort, New York, NY

Writing Lightly, Work|Release, Norfolk, VA

Emscherkunst 2016, Essen, Germany

A Celebration of the Speed Collection, Speed Art Museum, Louisville, KY

2015  Black: Color, Material, Concept, Studio Museum in Harlem, New York, NY

US IS THEM, Pizzuti Collection, Columbus, OH

The Great Mother, The Fondazione Nicola Trussardi, Palazzo Reale, Milan, Italy

Bring in the reality, Nathan Cummings Foundation, New York, NY

New Ways of Seeing: Beyond Culture, Dorsky Gallery Curatorial Programs, New York, NY

Future Seasons Past, Lehmann Maupin, New York, NY

The Freedom Principle: Experiments in Art and Music, 1965 to Now, the Museum of Contemporary Art Chicago, Chicago, IL

Community of Influence, benefit auction for the Vermont Studio Center, Spencer Brownstone Gallery, New York, NY

2014  FOOD, MuCEM -- Musée des Civilisations de l’Europe et de la Méditerranée, Marseille, France

In Plain Sight, Opa--locka Community Development Corporation, Opa--locka, FL

IN _ WE TRUST: Art and Money, Columbus Museum of Art, Columbus, OH

Black Eye, 57 Walker Street, New York, NY
Name: Nari Ward

College: Hunter

Group Exhibitions (continued):

2014  *Caribbean: Crossroads of the World*, Perez Art Museum Miami, Miami, FL

  *FOOD*, SESC Pinheiros, Sao Paulo, Brazil

2013  *Surviving Sandy*, Dedalus Foundation, Brooklyn, NY

  *Justice Blind*, Rush Philanthropic Art Foundation’s Corridor Gallery, Brooklyn, NY

  *Seventh Innin Stretch*, Firestone Gallery, East Hampton, NY

  *Nasher Museum and the 50th Anniversary*, The Nasher Museum of Art, Duke University, Durham, NC

  *Blacks in Black and White*, Brand New Gallery, Milan, Italy


  *We the People*, the Frances Young Tang Teaching Museum and Art Gallery, Saratoga Springs, NY

  *Wall*, Canzani Center Gallery, Columbus College of Art and Design, Columbus, OH

2012  *FOOD: Reflections on Mother Earth, Agriculture and Feeding*, Musée Ariana, Geneva, Switzerland

  *I Followed You Into the Water*, Lehmann Maupin, New York, NY

  *28 Days*, Justina M. Barnicke Gallery, Toronto, Canada

  *Points of View: Twenty Years of Artists in Residence*, Isabella Stewart Gardner Museum, Boston, MA


  *Galeria Continua, Beijin*, China

  *MuMo (Mobile Museum)*, L’Art à l’Enfance, Francem Cameroon; Benin; Senegal

  *Terre Vulnerabili 1/4*, Fondazione HangarBicocca, Milan, Italy

2010  *Nanjing Biennial*, Nanjing, China

  *Contemplating the Void: Interventions in the Guggenheim Rotunda*, Solomon R. Guggenheim Museum, New York, NY

  *REM(A)INDERS*, Galleria Continua, Beijing, China

  *Transparency: Art for Energy*, MACRO -- Museo D’Arte Contemporanea Roma, Rome, Italy
Group Exhibitions (continued):

2009  
30 Seconds off an inch, The Studio Museum in Harlem, New York, NY

Rockstone and Bootheel: Contemporary West Indian Art, Real Art Ways, Hartford, CT

Neo Baroque, University of Western Ontario Art Gallery, London, Canada
NeoHooDoo: Art for a Forgotten Faith, Miami Art Museum, Miami, FL

2008  
Prospect 1 New Orleans, New Orleans, LA

NeoHooDoo: Art for a Forgotten Faith, The Menil Collection, Houston, TX; MoMA PS1, Long Island City, NY

2007  
Dream and Trauma, Kunsthalle Wien and Museum Moderner Kunst, Vienna, Austria

Generation 1.5, Queens Museum of Art, Queens, NY

For the Love of the Game, Race and Sport in America, Wadsworth Atheneum Museum of Art, Hartford, CT

2006  
Wherever We Meet, Spazio Oberdan, Milan, Italy

Meditations in an Emergency, Museum of Contemporary Art Detroit, Detroit, MI

Whitney Biennial Exhibition, Whitney Museum of American Art, New York, NY

Be the Artist’s Guest, Musee d’Art Moderne Grand--Duc Jean, Luxembourg City, Luxembourg

Dirty Yoga: Taipei Biennial, Taipei Museum, Taipei, Republic of China (Taiwan)

Echigo--Tsumari Art Triennial, Echigo-Tsumari, Japan

2005  
New Labor; Neutral Capital Collection, LeRoy Neiman Gallery, Columbia University, New York, NY

Faith, Real Art Ways, Hartford, CT

Yokohama Triennial, Yokohama, Japan

Sharjah International Biennial 7, Sharjah, United Arab Emirates

Double Consciousness: Black Conceptual Art Since 1970, Contemporary Arts Museum Houston, Houston, TX

2004  
Postcards for Cuba: A Selection from the 8th Havana Biennial, Henie Onstad Kunstsenter, Høvikodden, Norway
Name: Nari Ward  

College: Hunter

Group Exhibitions (continued):

2004  *Garvey Carts Curator's Eye*, National Gallery of Jamaica, Kingston, Jamaica

 *Monument to Now: The Dakis Joannou Collection*, DESTE Foundation for Contemporary Art, Athens, Greece

2003  *Confabulations*, The Bertha and Karl Leubsdorf Art Gallery, CUNY Hunter College, New York, NY

 *Whispering Lights*, 8th Havana Biennial, Havana, Cuba

 *In Honor Of*, Arte Continua, San Gimignano, Italy

 *Pathmarker, Site Lines*, The Addison Gallery of American Art, Phillips Academy, Andover, MA

 *Landings*, Documenta XI, Kassel, Germany

 *Fortress*, Spoleto Festival, Charleston, SC

2001  *Transforms*, Roman Theater, Trieste, Italy

 *The Overexcited Body*, Museum of the Arengario Piazza del Duomo, Milan, Italy

 *Crossing the Line*, Queens Museum of Art, Queens, NY

 *A Room Is a World*, Kunsthalle Zurich, Zurich, Switzerland

 *Spiritual America*, Audiello Fine Arts, New York, NY

2000  *Playgrounds & Toys, Art for the World*, UNI Dufour Building, University of Geneva, Geneva, Switzerland

 *Quiet in the Land; Projecto Axe*, Museu de Arte Moderna da Bahia, Salvador, Brazil

 *Emerald Necklace Project*, Institute of Contemporary Art, Boston, MA

 *Geography: Tree*, collaborative work with Ralph Lemon, Yale University, New Haven, CT; Repertory Co, New Haven, CT; Walker Art Center, Minneapolis, MN; Yerba Buena Center for the Arts, San Francisco, CA; Brooklyn Academy of Music, Brooklyn, NY

 *Quotidiana, Museo d'Arte Contemporanea*, Turin, Italy 1999  

 *Streetlife*, Project Row Houses, Houston, TX

 *Passages: Contemporary Art in Transition*, The Studio Museum in Harlem, New York, NY
Group Exhibitions (continued):

1998  I Love New York; Crossover of Contemporary Art, Museum Ludwig, Cologne, Germany

  Global Vision; New Art from the 90s, DESTE Foundation for Contemporary Art, Athens, Greece

  Invitational Exhibition of Painting and Sculpture, American Academy of Arts and Letters, New York, NY

  Arkipelag: From Crash Between Islands to In(ter)fection, Sjöhistoriska Museet, Stockholm, Sweden

  Edge of Awareness, World Health Organization, Geneva, Switzerland; United Nations Hall of Visitors, New York, NY; MoMA PS1, Long Island City, NY; SESC Pompeia, São Paulo, Brazil

1997  Geography, collaborative work with Ralph Lemon, Yale Repertory, New Haven, CT

  Repertory Co, New Haven, CT; Walker Art Center, Minneapolis, MN; Brooklyn Academy of Music, Brooklyn, NY

  Islas, Centro Atlantico De Arte Moderno, Gran Canaria, Spain; La Granja, Teneriffe, Spain; Centro Andaluz de Arte Contemporaneo, Seville, Spain

  Quiet in the Land: Everyday Life, Contemporary Art, and the Shakers, Institute of Contemporary Art, Portland, ME; Institute of Contemporary Art, Boston, MA

 Untitled Depot, Insite 1997, Tijuana, MEXICO and San Diego, CA

  Projects: How to Build and Maintain the Virgin Fertility of Our Soul, MoMA PS1, Long Island

  City Pursuit of the Sacred: Evocations of the Spiritual in Contemporary African American Art, Betty Rymer Gallery, School of the Art Institute of Chicago, Chicago, IL

Selected Bibliography:


Selected Bibliography (continued)


“Nari Wad and Carol Muske-Dukes,” T Magazine, 17 April, p. 98.


da Silva, José. “Nari Ward: smile and the world smiles with you?” The Art Newspaper, 4 December.

Budick, Ariella. “Nari Ward’s found object sculptures explore history and power,” Financial Times, 3 December.


Selected Bibliography (continued):

2013  Herbert, Martin. “Now See This.” Art Review. Summer, p. 28 – 33.


“We The People/Fabric Workshop and Museum,” The International Review of African American Art, p. 31.


Selected Bibliography (continued):


              McQuaid, Cate. *Boston Sunday Globe*. 13 October.


              Ward, Nari. “Work in Progress,” *V Magazine*


Selected Bibliography (continued):


Name: Nari Ward

College: Hunter

Publications:


Hussie---Taylor, Judy, and Ishmael Houston---Jones. “Parallels: Danspace Project Platform 2012,” Danspace Project


Ward, Nari. “Sub Mirage Lignum” Mass MoCA


2009 Finkelpearl, Tom, Valérie Smith, and Jennifer Liese. “Generation 1.5,” Queens Museum of Art

2008 Matt, Gerald, and Lida Abul. “Interviews. 2,” Verlag der Buchhandlung Walther König


“Ice Cream: Contemporary Art in Culture,” Phaidon


“Past Presence: Contemporary Reflections on the Main Line,” Main Line Art Center
Name: Nari Ward

College: Hunter

Publications:
2003 Guerrero, Antoine et al. “Chen Zhen: A Tribute,” PS 1 Contemporary Art Center

Dudek, Peter. “Confabulations,” Bertha and Karl Leubsdorf Art Gallery, CUNY Hunter College


Ander, Heike. “Ausstellungsorte,” Hatje Cantz


Coleman, Beth, and Olukemi Ilesanmi. “Nari Ward,” Hopefulmonster


Sans, Jerôme, and Pier Luigi Tazzi. “Arte all’Arte: Arte, Archettura, Paessagio,” Gli Ori


1997 Marcoci, Roxana, Diana Murphy, and Eve Sinaiko. “New Art,” H.N. Abrams


Jinorio, Orlando Britto. “Islas,” Centro Atlántico de Arte Moderno


Name: Nari Ward

Public Collections:

The Baltimore Museum of Art, Baltimore, MD  
The Brooklyn Museum, Brooklyn, NY  
Crystal Bridges Museum of American Art, Bentonville, AR  
GAM, Galleria Civica di Arte, Torino, Italy  
Istanbul Modern, Istanbul, Turkey  
Musée d’Art Moderne Grand-duc Jean, Luxembourg City, Luxembourg  
The Museum of Modern Art, New York, NY  
The Nasher Museum of Art, Duke University, Durham, NC  
New York Public Library, New York, NY  
Perez Art Museum Miami, Miami, FL  
Richmond Center for Visual Arts, Western Michigan University, Kalamazoo, MI  
Speed Art Museum, Louisville, KY  
The Studio Museum in Harlem, New York, NY  
University Museum of Contemporary Art, University of Massachusetts, Amherst, Amherst, MA  
Vassar College, Poughkeepsie, NY  
The Walker Art Center, Minneapolis, MN  
The Whitney Museum of American Art, New York, NY  
Zimmerli Art Museum, Rutgers University, Newark, NJ

Commissions and Special Projects:

2016 Friends of the High Line, New York, NY  
Speed Art Museum, Louisville, KY

Isabella Stewart Gardner Museum, Boston, MA

2011 Art Unlimited, Art Basel, Basel, Switzerland

2008 Voice I, Voice II, and Voice IV, Commission by New York Department of Cultural Affairs, West Harlem Piers Park, New York, NY

Residencies:

2014 Rauschenberg Residency, Captiva, FL  
LSU College of Art + Design, Baton Rouge, LA

2000 Walker Residency, MN

1998 Residency program with curator France Morin, ME

1996 Sabbathday Lake Shaker Village, New Gloucester, ME

1992 The Studio Museum in Harlem, New York, NY
Name: Nari Ward

Honors and Distinctions
2017 Vilcek Prize in Fine Art
2015 Joyce Award, The Joyce Foundation, Chicago, IL
2013 Nadine Carter Russell Chair, LSU College of Art + Design, Baton Rouge, LA
2012 Rome Prize, American Academy of Rome, Rome, Italy
1998 Willard L. Metcalf Award, American Academy of Arts and Letters, New York, NY
    Bessie Award in Visual Arts, Dance Theater Workshop, New York, NY
1994 The National Endowment for the Arts, Washington DC Wheeler Foundation Merit Fellowship, New York, NY
THE CITY UNIVERSITY OF NEW YORK

Appointment of Steven Greenbaum
as Distinguished Professor at Hunter College

WHEREAS, Professor Steven Greenbaum is an internationally recognized leader in the development of new materials for electrical energy storage and in the field of solid state Nuclear Magnetic Resonance; and

WHEREAS, In addition to over 250 peer-reviewed journal articles and over $4 million in external grants since 2008, Professor Greenbaum received the 2002 Presidential Award for Excellence in Science, Mathematics and Engineering Mentoring, was elected Fellow of the American Physical Society in 2010, served as Jefferson Science Fellow in the U.S. Department of State in 2014-15 and received the Distinguished Scientist Award from the Society for the Advancement of Chicanos/Hispanics and Native Americans in Science in 2016; now therefore be it

RESOLVED, That the Board of Trustees of The City University of New York appoint Steven Greenbaum as Distinguished Professor of Physics at Hunter College effective November 1, 2018, with compensation of $28,594 per annum in addition to his regular academic salary, subject to financial ability.

EXPLANATION: As one of his reviewers notes, “Professor Greenbaum has proven himself as a top scientist in his fields of expertise: structural analysis of materials, highly judicious use of solid-state NMR spectroscopy. Moreover, he also demonstrated that he can enter quickly and very effectively into new fields, being able very quickly to raise a valuable and original contribution, demonstrating high impact research.” Another notes that Dr. Greenbaum “is an expert in the field of solid state ionics” and “is indeed a world leader in the use of NMR techniques to study the diffusion and conduction of mobile ions, especially Li+ ions, in liquid, polymer and solid electrolytes.” As another reviewer points out, “he has developed a truly distinguished reputation, resulting in many invited talks and visits to other universities. He has been an invited speaker at the Gordon Research Conference, indicating the cutting edge nature and the quality of his work.”

Dr. Greenbaum joined the Hunter College Department of Physics as an Assistant Professor in 1983 and was promoted to Associate Professor in 1988 and Professor in 1991. He is currently the chair of the Department of Physics, a position he also held from 1997 to 2000. He served as the Executive Officer of the Ph.D. Program in Physics at the Graduate Center from 2008 to 2014. He has had Visiting Professorships at Rutgers and Stony Brook Universities, Tel Aviv University, Universite de Paris and the University of Rome. Greenbaum earned a Ph.D. in Solid State Physics from Brown University and a BA in Physics from Clark University. He also served as a NRC Postdoctoral Fellow at the Naval Research Lab.

Hunter College and The City University of New York will be well-served by Professor Greenbaum’s appointment as Distinguished Professor.
Steven Greenbaum, Ph.D.

Professor and Chair
Department of Physics & Astronomy
Hunter College and the Graduate Center
City University of New York
New York, NY 10065

EDUCATION

Clark University, Worcester, MA  Physics  BA  1976
Brown University, Providence, RI  Solid State Physics  Ph.D.  1981
Naval Research Lab, Washington, DC  Semiconductors  NRC Postdoc  1981-83

NATIONAL EXPERIENCE

1991 – present  Professor, Physics & Chemistry, Hunter College of CUNY
               Doctoral Faculty, CUNY Graduate Center

2016 – present, 1997 – 2000  Chair, Department of Physics & Astronomy,
               Hunter College of CUNY

1992 – 1994, 1988-90  Executive Officer, Ph.D. Program in Physics,
               CUNY Graduate Center

Spring 2005  Visiting Professor, Ceramic & Materials Engineering Dept.,
               Rutgers University

Fall 2004  Visiting Professor, Chemistry Dept., Stony Brook University

1988 – 1991  Associate Professor (tenure 1988), Hunter College of CUNY

1983 – 1988  Assistant Professor, Hunter College of CUNY

INTERNATIONAL EXPERIENCE

June – July 2012  Department of Chemistry, University of Rome
April – May 2012  Department of Chemical Sciences, University of Padova
January – February 2012  Visiting Professor, Department of Chemistry and Wolfson
                         Center for Applied Science, Tel Aviv University,
June 2011  Visiting Professor, Laboratoire de Physique des Solides,
           Université Paris
July 1996  Gordon Lecturer, Gordon Center for Energy Studies,
           Tel Aviv University
June – July 1995  Visiting Professor, University of Rome
July – August 1990  NATO Senior Guest Investigator, University of Rome
FELLOWSHIPS
September 1997 – Aug 1998 NASA/NRC Senior Research Fellow, Jet Propulsion Laboratory, California Institute of Technology
September 1990 – Aug 1991 Fulbright Scholar, Weizmann Institute of Science

DISTINGUISHED HONORS
2010 Fellow, American Physical Society
2016 SACNAS Distinguished Scientist Award
2003 Richard Nicholson Excellence in Science Teaching Award
2002 Presidential Award for Excellence in Science, Mathematics, and Engineering Mentoring (PAESMEM), NSF and White House OSTP
2001 US Navy League Roosevelt Gold Medal for Science

RESEARCH FUNDING
Grant support (single investigator) since 2008: $4.2M (DoE, ONR, NIST, ARO, AFOSR)

INVITED LECTURES
- More than 50 at universities or research centers, including:
  2017 Universite Paris-Sud, July
  Tel Aviv University, June
  Bar Ilan University, June
  Wesleyan University, January
  2016 Medgar Evers College, February
  Clark University, October
  Tel Aviv University, June
  U.S. State Department, June
  Tufts University, April
  U.S. Army Research Lab, April
  2015 U.S. Naval Research Lab, October
  Tel Aviv University, June
  Bar Ilan University, June
  University of Rome, La Sapienza, June
  Ionic Materials, Inc., April
  Queens College, April
  Brown University, January
  NASA Jet Propulsion Lab, January
  2014 University of Rochester, October
Tufts University, September
Tel Aviv University, June
CCNY, April
Oklahoma State University, February
Medgar Evers College, February
University of St. Andrews, January
University of Pennsylvania, January
Weill Cornell Medical Center, January
2012
Binghamton University (SUNY), October
University of Camerino, July
University of Padova, July
University of Rome La Sapienza, June
University of Rome Tor Vergata, June
University of Pavia, May
Medtronic, Inc., March
Technion, February
Weizmann Institute of Science, February
Bar Ilan University, January
Tel Aviv University, January
2011
Brooklyn College, November
U.S. Army Research Lab, November
Rutgers University, September
Universite Paris-Sud, July
Columbia University, March
NASA Jet Propulsion Lab, January
CCNY, January
Tel Aviv University, January
2010
Lockheed Martin Corp., October
NY City Tech, October
University of Rome, LA Sapienza June
Massachusetts Institute of Technology, June
Coe College, April
Tel Aviv University, January
Bar Ilan University, January
2009
CCNY, November
University of Puerto Rico, Mayaguez, November
University of Puerto Rico, Rio Piedras, November
Rutgers University, October
University of Muenster, August
2008
Argonne National Lab, December
Northrop Grumman Corp., December
University of Puerto Rico, Mayaguez, November

Steve Greenbaum – CURRICULUM VITAE
University of Puerto Rico, Rio Piedras, November
NYU-Poly, October
General Motors Corp., June
SUNY Albany, March
Monash, University, February

- More than 50 at national or international meetings, including:

2017
Tutorial on Nuclear Magnetic Resonance in Solid-State Ionics; Solid State Ionics, Padova, Italy, June
Electrochemical Society, New Orleans, LA, May
American Chemical Society, Symposium on Polymers for Fuel Cells, Energy Storage and Conversion, Asilomar, CA, March

2016
European Materials Research Society, Warsaw, Poland, September
15th International Symposium on Polymer Electrolytes, Uppsala, Sweden, August
Electrochemical Society, San Diego, CA, May
Ionic Liquids for Electrochemical Devices, Rome, Italy, July
Materials Research Society, Phoenix, AZ, April
American Physical Society, Baltimore, MD, March

2015 (note: I was full time at the U.S. State Dept. 9/14 – 8/15)
American Chemical Society, Symposium on Advances in Polymers for Fuel Cells and Energy Devices, Asilomar, CA, February

2014
CIMTEC Symposium on Electrochemical Storage, Montecatini Terme, Italy, June
Ionic Materials for Electrochemical Devices, Rome, Italy, May
Gordon Conference on Batteries, Ventura, CA, March

2013
Materials Research Society, Boston, MA, December
Electrochemical Society, San Francisco, CA, October
Relaxation in Complex Systems, Barcelona, Spain, July
Pacific Rim Conference on Ceramic and Glass Technology, San Diego, CA, June
Materials Research Society, San Francisco, CA, April

2012
22nd International Seminar on Double Layer Capacitors & Hybrid Energy Storage Devices, Deerfield Beach, FL, December.
Ionic Materials for Electrochemical Devices, Rome, Italy, May

2011
Electrochemical Society, Boston, MA, October

2010
International Symposium on Polymer Electrolytes, Padova, Italy, August
CIMTEC Forum on Materials for Electrochemical Storage, Montecatini, Terme, Italy, June

2009
Thermodynamics and Transport Kinetics of Nanostructured Materials, Schloss Nordkirchen, Germany, August

2008
**International Symposium on Polymer Electrolytes, Ofir, Portugal, September**
**American Chemical Society, Philadelphia, August**
**Ionic Liquids for Electrochemical Devices, Rome, Italy, June**
**Australian Research Center for Electromaterials, Melbourne, Australia, February**

**KEY PUBLICATIONS**


250 publications total –
http://www.hunter.cuny.edu/physics/faculty/greenbaum/repository/files/pubs%20as%20of%20Nov%202017.pdf

SYNERGISTIC ACTIVITIES

• Co-organizer and Proceedings Editor, 4th, 8th, and 13th International Symposia on Polymer Electrolytes (Newport, RI, 1994, Santa Fe, NM, 2002, Selfoss, Iceland, 2012)
• Founding member of CUNY Chancellor’s task force to increase diversity among the science faculty
• National Academy of Sciences panelist for NRC postdoc program – physical sciences (2004-2011)
• Founding Board member, Technology and Education Center for Renewable Energy (TECRE) of Puerto Rico, Bayamon, PR

STUDENTS AND POSTDOCTORAL SCHOLARS SUPERVISED

• Total number of Ph.D. students supervised: 25 (not including current)
• Total number of MA students: 13 and over 50 undergraduate researchers
• Total number of Postdoctoral Scholars supervised: 20 (not including current)
• Current doctoral students
  o Shen Lai, Sunita Humagain, Stephen Munoz, Nishani Jayakody, Daniel Morales.
• Recent doctoral students
  o Kartik Pillar (Ph.D. 2017, received postdoc offer from Argonne National Lab)
  o Lisa Cirrincione (Ph.D. 2017, analyst Bloomberg Energy)

Steve Greenbaum – CURRICULUM VITAE
• Jing Peng (Ph.D. 2016, postdoc Oak Ridge National Lab)
• Marc Berman (Ph.D. 2015, Asst. Prof. Bard H.S./Early College)
• Armando Rua (Ph.D. 2014, Asst. Prof., Physics Dept. University of Puerto Rico, Mayaguez)
• Tetiana Nosach (Ph.D. 2014, Analyst, Cipher Health)
• Rafael Vazquez (Ph.D. 2013, whereabouts unknown)
• Sufia Khatun (Ph.D. 2011, postdoc, Rutgers U.)
• Sohan deSilva (Ph.D. 2011, NMR Facility Manager, U Texas El Paso)
• Jaime Farrington (Ph.D. 2010, instrumentation scientist, Sydor, Inc., and Brookhaven National Lab)
• Gabriel Goenaga (Ph.D. 2010, research staff, Univ. Tenn., and Oak Ridge National Lab)
• Chandana Kodiweera (Ph.D. 2009, MRI Staff researcher, Dartmouth Medical School)
• George Bennett (Ph.D. 2009, whereabouts unknown)
• Nicole Leifer (Ph.D. 2008, Researcher, Battery Group, Bar Ilan Univ., Israel)

• Recent Postdoctoral Scholars
• Mallory Gobet (2013-17), Research Scientist, Arkema, Inc.
• Stephen Boyd (2012-13), CTO Havelide Inc.
• Xavier Bogle (2012-13) Chemistry Project Manager, NY Academy of Sciences
• Ian Nieves (2012-13) Center for High Performance Computing Cape Town, SA
• Paul Sideris (2010-12), Asst. Prof. Queensborough Community College
• Valencia Johnson (2007-8) Senior Staff, Ashland Chemical
• Cherno Jaye (2005-8), Beamline Physicist, NIST/BNL
• Christoph Weise, (2006-8), University of Umea, Sweden
• Glendon Dale McLachlan (2004-7), Queens College of CUNY
THE CITY UNIVERSITY OF NEW YORK

Appointment of Dr. Naresh Devineni with Early Tenure at City College

WHEREAS, Dr. Naresh Devineni, Associate Professor of Civil Engineering at City College, focuses his research on advancing the science of risk management, and water resources planning in particular, and

WHEREAS, Dr. Devineni’s research is critical to addressing pressing global challenges as the distribution of water supply across the globe and the impact of climate on these challenges, and

WHEREAS, Dr. Devineni has an exceptionally strong scholarly record, and record of receiving grants from prestigious organizations such as the National Science Foundation, the Department of Energy, and the Environmental Protection Agency, be it

RESOLVED, that Dr. Naresh Devineni, Associate Professor of Civil Engineering at City College, be appointed with early tenure through a waiver of University Bylaw 6.2(d).

EXPLANATION: The focus of Naresh Devineni’s research is advancing the science of risk management with applications to water resources planning. His research is critical to such pressing global challenges as the varying distribution of water supply across the globe and the impact of climate risks on these. In four years, he has been awarded $1,296,894 in funding for 12 projects, from such prestigious organizations as the Department of Energy, the National Science Foundation and the Environmental Protection Agency. His scholarly record is exceptionally strong and includes 33 peer reviewed journal publications. External reviews of Dr. Devineni’s scholarship are exceptionally complimentary. Dr. Devineni is by all accounts an energetic, enthusiastic and dedicated teacher and mentor of students from high school to doctoral levels, and good citizen of his department and school and deserving of being awarded early tenure.
Request for Faculty Personnel Action with a Bylaw Waiver

Date__August 23, 2018_______________________________________________________________
College or Unit__The City College of New York___________________________________________
Name of Candidate__Naresh Devineni___________________________________________________
Department___Civil Engineering_______________________________________________________
Appointment Title__Associate Professor______________________________________________
Full-Time Tenured _________   Full-Time Tenure Track __X_______
Visiting________ Substitute _______ Adjunct________
Date of Initial Appointment___8/27/2013____________________________________________
Summary of Action_Early Tenure_____________________________________________________
By-law to be waived/applied_____Section 6.2d of the University Bylaws_____________________
Waiver requested for (please check one):
Appointment__________   Promotion_____________   Re-appointment with Tenure______X_______
Date of Departmental P&B__April 12, 2018____________________________________________
Date of College-wide P&B __April 25, 2018____________________________________________
Waiver effective as of (starting date) __September 1, 2018________________________________
I hereby certify that this request for a waiver of the Bylaws is for the good of the institution.

Please see attached
(President’s/Provost’s signature)

Vincent Boudreau, President
(President’s/Provost’s name, typed or printed)
WAIVER JUSTIFICATION

Name: Naresh Devineni
Unit/College: City College

Department: Civil Engineering

Please summarize your justification for requesting a waiver. Give examples of the candidate’s publications, quality of teaching, honors, service and other achievements. You are encouraged to use only the space provided on this template but may add a second page if needed, particularly in the case of a justification for early tenure.

Please see attached.
August 23, 2018

Dr. Vita Rabinowitz  
Executive Vice Chancellor and University Provost  
Academic Affairs  
The City University of New York  
205 East 42nd Street, 9th Floor  
New York, NY 10017

Dear Executive Vice Chancellor Rabinowitz:

I write to request your approval to grant Dr. Naresh Devineni early tenure as an Associate Professor in the Civil Engineering Department, effective 9/1/2018, as permitted under section 6.2.d of the University Bylaws. Dr. Devineni is currently in his fifth year of service. His reappointment with early tenure has been recommended by the Department Executive Committee, Divisional P&B, and the College-Wide Review Committee.

For your review, I have enclosed Dr. Devineni curriculum vitae. I fully endorse this recommendation. Thank you for your consideration of this request.

Sincerely,

Vincent Boudreaux
President

CC: John Siderakis, Assistant Vice President of Human Resources

VB/els
August 29, 2018

President Vincent Boudreau
The City College of New York
160 Convent Avenue
New York, NY 10031

Re: Support for Early Tenure – Dr. Naresh Devineni

Dear President Boudreau:

I write to offer my very strong support for reappointment with early tenure for Dr. Naresh Devineni who is also being recommended for promotion to Associate Professor in the Department of Civil Engineering. Dr. Devineni received his PhD in Civil Engineering from the University of Illinois in 2010, and was a post-doctoral Research Scientist and an Associate Research Scientist at the Columbia Water Center, Earth Institute (2010-2013) prior to coming to The City College of New York in 2013. Dr. Devineni’s outstanding research record in the field of water resources analytics as well as his innovative teaching and extensive mentoring led him to be recommended for this distinction in a department known for its especially rigorous standards.

Research and Scholarship:

The focus of Dr. Devineni’s research is advancing the science of risk management with applications to water resources planning. His research is critical to such pressing global challenges as the varying distribution of water supply across the globe and the impact of climate risks on these. With a particular strength in predictive data analytics, he has developed a body of knowledge in Dynamic Risk Analysis for water management and environment sustainability. Practical applications of his research have included helping to develop on-line tools for companies and users to understand their water risks and prioritize actions toward sustainable water management. In four years, he has been awarded $1,296,894 in funding for 12 projects, from such prestigious organizations as the Department of Energy, the National Science Foundation and the Environmental Protection Agency. His publication record is exceptionally strong with 33 peer reviewed journal publications (22 at CCNY) and an H-Index of 14 with 553 overall citations. He has given 75 conference presentations (50 while at CCNY) and given 26 invited talks (19 while at CCNY). He reached an even greater audience through blog he created in 2017 to make data analysis easier for a broad population. Currently, dataanalysisclassroom.com has 12,000 users across the globe and receives an average of 7500 view per month. Professor Casey Brown of the University of Amherst writes of the blog: “I have read several entries or ‘lessons’ and they are ingeniously illustrated with wonderful visualizations and clear explanations. . . . This is a wonderful contribution to society at large and I commend the effort he has put forth on it.” The extraordinarily broad impact of his work for a scholar at his career stage was recognized with the prestigious Early
Career Award from the Department of Energy in 2017 among a shower of other recognitions. Professor Richard Vogel of Tufts University writes: “I am quite confident that he is on a steady course to become one of the future leaders of our profession of hydrology. Among his own peer group, and using my 35 years of experience as a professor, I can confidently say that Dr. Devineni is, already, among the most productive and successful scholars of his generation.” Professor Prof. Vijay P. Singh, Distinguished Chair Prof., Texas A&M, affirms: “I believe he is a rising star and is filled with exciting future promise. In the years ahead he will continue to make a name for himself as well as CUNY and will contribute to sustaining the rich culture of excellence that CUNY is worldwide known for.”

Service and Teaching:

Dr. Devineni is by all accounts an energetic, enthusiastic and dedicated teacher and mentor of students from high school to doctoral levels, and good citizen of his department and school. His didactic aspirations to make complex concepts accessible to broad audiences, as evidenced by his blog, are valuable assets for advancing the College’s mission, especially as a premiere STEM institution in CUNY and New York City. One of his peer teaching evaluators notes: “his expertise and desire to become an excellent teacher has resulted in an impressive collection of material, sample problems, research topics which together would ultimately result in the publication of a textbook.” His professional and college service include guest editing two journals, serving on NSF panels, and PhD advisory committees within and outside the department, as well as contributing his web expertise to the department’s website management committee.

Conclusion:

Dr. Devineni is an exceptionally accomplished and versatile young scholar with no signs of slowing down. He is likely to become a leader among the global community researching solutions to some of the most critical environmental challenges facing the planet today. He is a valued member of the Civil Engineering Department and a dedicated, innovative educator. He is a credit to City College and to CUNY. He has my strongest support for early tenure and promotion to Associate Professor.

Best Regards,

Tony M. Liss, PhD
Interim Provost & Senior Vice President for Academic Affairs

cc: Assistant Vice President John Siderakis, Office of Human Resources
Summary

I have been a tenure-track Assistant Professor in the Department of Civil Engineering (CE) at the City College of New York (CCNY) since September 2013. At CCNY, I also serve as a faculty affiliate of the NOAA and CUNY Cooperative Remote Sensing Science and Technology Center (NOAA-CREST and CUNY-CREST). I created the Water Analytics research group that focuses on modeling of water systems and developing integrated risk hedging methods using multi-scale climate information. For the last four years, I have been conducting state-of-the-art research in hydro-climate modeling and extremes analysis, statistical methods, water sustainability and risk assessment and water systems analysis. My unique combination of water, climate, and multi-scale risk management expertise, and evident growth in scholarly achievements made me a distinguished member of the scientific community at a very early stage.

I created a body of knowledge in Dynamic Risk Analysis for water management and environmental sustainability that integrates intellectual, practical and educational elements. I formed several national and international collaborations with researchers across universities. This is reflecting in my publication records and my grantsmanship. I have led the exploration, development, and application of new statistical and numerical methods to water-climate problems and am advancing the thinking in climate-informed water sustainability. My contributions cover new algorithms for the assessment of water stress, modeling causality and spatiotemporal dependence in hydroclimate fields, innovations in tree-ring based reconstruction, hypothesis-driven approaches to trend identification and optimization to address water stress. I have also created Bayesian methods to reduce model and prediction uncertainties.

Thus far, based on my research, I have co-authors 33 peer-reviewed journal articles (22 of them while at CCNY), one book chapter, one full dataset, 14 opinion articles and white papers and 75 conference presentations (50 of them while at CCNY). Besides, I have five pending publications under first round revision or peer-review. As per Google Scholar citation index, I have an H-index of 13, and my research articles have been cited 530 times. I have been invited as a panelist and speaker for 26 important panel discussions and meetings at international, domestic and university-wide conferences (19 of them while at CCNY). Over the last four years, there is a significant uptrend in the number of citations I received for my research articles, indicating growing scholarly recognition among the scientific community.

My research has been supported by grants from major U.S. federal agencies like Department of Energy’s Office of Science (DOE), National Science Foundation (NSF), National Oceanic and Atmospheric Administration (NOAA), Regional Transportation Center (UTRC), University Research Foundation (RFCUNY) and OAKRIDGE National Labs (ORAU). Currently, I have three funded projects as PI and Co-PI. Two of them are from DOE (Early CAREER) and NSF. This is in addition to the nine completed projects in the last four years. Together, these 12 projects account for a cumulative funding of $1,296,894 over four years.

These projects have allowed me to support four Ph.D. students and four undergraduate students. Elius Etienne, one of these four Ph.D. students, has recently graduated and is currently working as a Water Systems Engineer at Gedeon GRC Consulting. I also co-advice three other NOAA CREST Ph.D. students. I am a member of several Ph.D. advisory committees within and outside the department. I have developed a broad network of
collaborations both in the USA and abroad, including co-advising doctoral students in Hohai-China and Drexel Universities.

I teach four courses, CE 264 (Civil Engineering Data Analysis), CE 316 (Civil Engineering Decision and Systems Analysis), G9100 (Water Resources Systems Analysis) and H1101 (Advanced Data Analysis) in the CE department. I also conduct summer boot camp sessions on statistics and water management for high school students as part of the CREST’s High School program. I am very dedicated to teaching and always put students first. In my teaching, I use the pedagogy of “active learning” (creating inquiry and scenario-based problem-solving environments and organizing students into cooperative learning groups) to drive the character of STEM experience. My teaching evaluations are excellent in all categories. In addition to traditional university classroom teaching, I also actively participate in sharing my knowledge to a broader audience through social media. In this regards, very recently, I have created a data science blog [http://www.dataanalysisclassroom.com](http://www.dataanalysisclassroom.com) where people of all backgrounds and ages can learn data analysis, probability, and statistics in a fun and intuitive way without the technical lingo. The blog currently has 12000 users from across the world and receives an average of 7500 page views per month.

I serve as a reviewer for the most prestigious journals such as Nature Scientific Reports, Water Resources Research, Journal of Hydrology, Journal of Hydrometeorology, ASCE's Journal of Water Resources Planning and Management, Journal of Water and Climate, Journal of American Water Resources Association, Hydrology and Earth System Sciences and Climate Dynamics. My reputation in water risk assessment has also led to an invitation to serve on the Scientific Committee of the Fresh Water Health Index. I am currently acting as a guest editor for Earth System Dynamics journal, and have acted as a guest editor for KSCE Hydrologic journal in the past. I also served as a reviewer for NSF (both in panels and as adhoc).

I have been honored with several scholarly and professional awards including, the prestigious Early CAREER Award from the Department of Energy in 2017, the Ralph E. Powe Junior Faculty Award by Oakridge Associated Universities in 2016, and the CUNY Recognition for Outstanding Scholars Achievements in 2015 and 2014. I was also the sole nominee from CCNY for the prestigious national Blavatnik Award for Young Scientists. In addition to these awards, the student design team that I mentored won First Place in EPA’s National competition for campus rainworks challenge in 2016. I have demonstrated recognition at CUNY and within the national and international communities of scholars.

I firmly believe that I have exceptional skills to contribute to the field and become a successful faculty participating in the development of my Department, School of Engineering and the University.
I created the **Water Analytics** research group at CCNY that focuses on modeling of water systems and developing integrated risk hedging methods using multi-scale climate information. In the Water Analytics Group, my research team works on a domain of issues related to Hydrology and Water Resources Management that require rigorous systems based inquiry and involve methodical uncertainties quantification. Large scale matters in hydroclimatology and their relations to oceanic, atmospheric, and land surface conditions and issues of global and regional water sustainability form the crux of our research.

**Overview**

The importance of climate variability and change on water resources is now well established, and this is perhaps the most significant factor on human vulnerability to climate. The ability to make precise predictions about this detrimental risk is challenging. This is especially true when human populations, land use change, and other factors are also affecting water futures. Ensuring water sustainability is a major challenge for the coming decades, particularly in the face of urbanization, industrialization and a rapidly growing global population. My work addresses this significant area, exploring water risks, floods and droughts, their climate determinants over multiple centuries, and how these may affect interlinked human activities at various scales of cities, river basins, and nations. As the Principal Investigation (PI) of federal, regional and university-funded research projects, I am leading the exploration, development, and application of new statistical and numerical methods to water-climate problems. My research is focused on Dynamic Risk Analysis for Water and Environmental Management. Dynamic Risk is the risk that changes with time, due to natural or anthropogenic factors and evolving social priorities. Dynamic Risk Management (DRM) is a formal approach to adaptation to such changes. DRM framework will assess the risk exposure of water systems in a time-varying manner conditional on factors that lead to either cyclical or monotonic change. It also factors in, the changes in exposure to risk given societal adaptation and mitigation actions. I created an integrated strategy for estimation, prediction and decision support at different lead times to support adaptive risk management. A probabilistic framework using Bayesian methods is used to address modeling
and informational uncertainties, and to facilitate quantitative decision-making. I am now focusing on understanding decadal to multi-decadal hydroclimatic variability using observed and paleo streamflow records and future climate projections, and combining them with adaptation actions to inform infrastructure investments and periodically update sectoral and interstate allocation rules. It will provide a capacity to assess the implications of climate, policy, water demand, water conservation and infrastructure development scenarios on socio-economic and water outcomes. I made fundamental contributions in the following areas of research.

**Water Sustainability and Risk Assessment**

**Significance**

Water scarcity is a concern for the sustainability of life and human societies. The varying distribution of water supply across the globe involves complex patterns of rainfall in space and time that directly influence ecosystems and the dependent infrastructure. Today many countries are facing severe and persistent water resources crisis owing to a growing imbalance of supply and demand. The simultaneous effects of agricultural growth, industrialization, and urbanization coupled with declining surface and groundwater quantity, regional water disputes, and inefficiencies in water use practices are some of the crucial problems facing the water sectors globally. The effects of climate variability and change, including increasing frequency of extreme phenomena (e.g., droughts and floods) are also creating pressures on scarce water supplies. As water bodies go dry, there is an increasing threat to food self-sufficiency and sustainability across the world. We are at the juncture where future water sustainability is under question with growing concerns as to the reliable supply of water for various needs. High inter-annual rainfall variability and increasing consumptive use across the world exacerbates the situation further and is a constraint on future development. For water sustainability, it is necessary to examine the differences in water demand and supply and their spatiotemporal distribution to quantify the dimensions of the water risk. There is also a need for assessing the differential vulnerability of particular sectors, which can serve as a basis for targeting policy interventions.

**My Contribution**

**Risk Assessment:** The risks and vulnerabilities facing water systems shift dynamically as a result of changing climate and societal conditions. Ensuring reliable water supply under these changes is key to achieving societal goals and water sustainability. My research is focused on producing fundamental knowledge in risk assessment and management for water and environmental sustainability considering linkages between climate, water supply, competing demands and institutional constraints. An important outcome was to develop a strategy for water and food security for the country in the face of climate constraints and competing demands. We developed estimates that provide a very robust index of the magnitude of water deficit/stress that not only assesses the relative average supply and demand but also accounts for the temporal imbalance of supply and demand at the spatial resolution consistent with decision-making. This assessment framework can serve as the basis for future investments in water storage and management and contribute to the reduction of vulnerability to climate-induced water stress, thus increasing the resilience of the system to periodic shocks. I collaborated with Veolia and Growing Blue for developing the America Water Tool and World Business Council for Sustainable Development for the India Water Tool. The India Water Tool Version 2 (IWT 2.0) is an online tool for companies and users to understand their water risks and prioritize actions.
Risk Management: I developed a prototype corporate water risk and sustainability framework for quantifying and analyzing climate-induced water risks. The climate risk tool is based on (a) developing specific indicators for the assessment of climate-induced water risk, (b) investigating the sources of predictability, and (c) developing statistically verifiable models for issuing season ahead probabilistic forecasts for regional water and agricultural production shortfalls.

Publications: The following are the list of publications (during my tenure at CCNY) that I consider main contributions from me to this area of research. * indicates graduate students.

**With students**


5. Contribution to water stress indices (Normalized Deficit Index (NDI) and Normalized Deficit Cumulated (NDC)) for India Water Tool Version 2 (http://www.indiawatertool.in), developed by the World Business Council for Sustainable Development (WBCSD), 2015. {The India Water Tool Version 2 (IWT 2.0) is an online tool for companies and users to understand their water risks and prioritize actions toward sustainable water management}. Click here to view the portal.


**With other collaborators**


9 of 14

External funding that supported/supporting this work:

1. America’s water - The changing landscape of risk, competing demand and climate, National Science Foundation – Water Sustainability and Climate (NSF - WCS) through Columbia University, $182,293, September 1, 2014 – August 31, 2018. (co-PI)
2. Multisite paleo - reconstruction of Missouri River streamflows from tree ring data, National Science Foundation – Paleo Perspectives on Climate Change (NSF - P2C2), $117,120, July 1, 2014 – June 30, 2017. (PI)
3. Water sustainability, drought risk and food security in the 21st century – A systematic assessment of climate and completing demands using in-situ and satellite data, National Oceanic and Atmospheric Administration (NOAA) through CICS, University of Maryland, $69,139, January 1, 2015 – December 31, 2016. (PI)

Hydrologic Extremes

Significance

Global climate varies systematically across seasons, years, decades and centuries. These systematic variations are due in part to natural processes, such as ocean-atmosphere interactions and in part to anthropogenic forcing. Such multi-time scale climate variations lead to spatiotemporal correlations in hydrometeorological extreme events. Hydrometeorological extremes such as droughts, floods, tornadoes, severe storms, and depressions, etc., are a perennial concern irrespective of the future climate. From a risk management perspective, one has to focus on the prediction of the timing and co-location of these events, their inter-relationships, as well as how their statistics may change with time. The potential for simultaneous occurrences of multiple extremes and their persistence can be associated with climate and atmospheric variables at various levels in the hierarchy of the climate system. These diagnostic variables can range from slowly varying large-scale surface temperature gradients (e.g., equator-to-pole, ocean-land) and regional forcings (e.g., soil moisture, potential vorticity, persistent highs and lows in pressure fields). I am focusing on strategies for the prediction, and integrated management of climate and weather extremes using such physics informed predictors. It entails investigation into the causality of hydrometeorological extremes at different time scales using Information Theory-based Causality tests and development of unified prediction and adaptive risk management framework using Bayesian multi-scale modeling. An improved understanding of the critical forcing of hydrologic systems by meteorological and climatic
processes is an essential aspect of predicting their functioning, especially as adaptive measures are being considered for future extreme events under climate change. My research is addressing some important gaps in understanding how hydrometeorological extremes are manifested in space and time and change with climate. The analyses of their spatiotemporal structure will be invaluable for evaluating reservoir and river system operation policies, flood preparation and hence on the economy of the country.

**My Contribution**

**On Floods:** Floods associated with severe storms are a significant source of risk for property, life and supply chains. Local and non-local flood-related losses, especially in emerging economies, appear to be increasing. Regional flood risk changes over time due to changes in land use, flood mitigation, infrastructure development and climatic factors. Global assessments of flood risk are consequently challenging since they need to account for changing local and global factors and due to limited high-resolution data on key causal factors. Floods due to persistent rainfall (>30 day duration) as seen recently in Thailand, Pakistan, the Ohio and the Mississippi Rivers, France, and Germany may relate to slowly changing climate conditions, especially in the tropical oceans, e.g., related to the El Nino Southern Oscillation (ENSO) and the Madden-Julian Oscillation (MJO). Quantifying how the flood risk in a region changes over time in response to these climate conditions can thus improve risk characterization and management. To investigate this phenomenon, recently, we analyzed how extreme rainfall across the planet exhibits self-organizing phenomena that manifest as scaling relationships with contiguous area specifically for longer duration rainfall extremes. We find interesting aspects of the spatial organization of the system at the continental scales that provoke thinking and investigation as to how such processes may work. This knowledge can be used to improve the current generation global circulation models. We are currently working on developing modeling strategies that can simultaneously incorporate these regional spatial variations in the occurrence of extreme events along with the non-stationarity in climate.

In addition, we also developed a comprehensive framework to assess the flood types, their spatiotemporal characteristics and causes based on the rainfall statistics, antecedent flow conditions, and atmospheric teleconnections. We identify the synoptic scale atmospheric processes that cause long duration floods. Long duration floods are triggered by high antecedent flow conditions, which are in turn caused by high moisture release from the repeated storm tracks. Atmospheric teleconnections are distinctively persistent and well developed for long duration flood events. For short duration floods, these are insignificant and appear to occur at random. The implication of analyzing the duration and volume of the floods in the context of flood frequency analysis for dams are also developed.

**On Droughts:** Droughts have a cascading effect on the society, economy and the environment. Seasonal water deficits resulting from natural variability in rainfall and increased demands impact the agricultural economy, industrial growth, and regional water supply. Most of the existing standardized drought indices consider only water supply but are not customized to address the specific water demands. Hence, drought as manifest in the usual indices does not provide a measure of potential social impact. As water demands have increased, the use of a purely supply based index is misleading since the frequency, severity, and duration of deficits is not adequately indicated, especially in a comparative setting across markedly different demand patterns in the same climatic regime. Recently, we developed a Demand Sensitive Drought Index (DSDI) that considers all potential sectoral demands in aggregate or disaggregate. Measures of
drought resiliency that are based on the probability of transitioning to a satisfactory state from an unsatisfactory state are also derived. The utility of such a drought index can be established by putting a current or historical drought in context relative to current demands. Proposed changes in demand, such as agricultural water usage, domestic supply, etc., can be mapped to changes in the DSDI, and hence both the changes in the potential resilience and the drought severity and duration conditional on a specific demand can be evaluated. We are currently exploring the development of a drought forecasting procedure that includes season ahead information on drought onset, duration, severity, and recovery. This will facilitate water and agricultural sector planning. Mitigating climate risks by adapting existing water allocation and crop selection rules to anticipated condition, within country and hedging strategies for managing grain stocks and imports will provide a multi-level climate change adaptation strategy.

Publications: The following are the list of publications (during my tenure at CCNY) that I consider main contributions from me to this area of research. * indicates graduate students.

With students


With other collaborators


External funding that supported/supporting this work:

1. Multi-scale modeling of extreme events and impact information, Department of Energy, Office of Science, Biological and Environmental Research (DOE Early CAREER), $762,097, September 15, 2017 – September 14, 2022. (PI)

2. An agent-based disaster response inference model for assessment of transportation risk under extreme rainfall events, University Transportation Research Center (UTRC Region 2), $80,000, June 1, 2015 – August 31, 2016. (PI)

3. The utility of radars for hydrologic design in a changing climate: An application for the New York City’s storm sewer system, Professional Staff Congress of City University of New York (PSC – CUNY), $5,999, July 1, 2015 – December 31, 2016. (PI)

4. Integrating radars, rain gauges and climate for non-stationary hydrologic risk assessment and infrastructure design, Ralph E. Powe Junior Faculty Enhancement Award, Oakridge Associate Universities (ORAU), $10,000, July 1, 2015 – June 30, 2016. (PI)


Teaching

I am currently teaching Civil Engineering Data Analysis (CE 264) and Civil Engineering Decision and Systems Analysis (CE 316) at the undergraduate level and Water Resources Systems Analysis (G 9100) and Advanced Data Analysis (G 1101) at the graduate level. Annually, around 150 students sign up for the CE 264 course and about 75 students sign up for the CE 316 course. The graduate courses usually have approximately 20 students each annually. *My teaching evaluations conducted by CCNY have been excellent (~4.5/5) in nearly every category of instruction.* A brief description of the courses and my efforts are presented here. Full details are in the teaching portfolio.

- **Advanced Data Analysis (G 1101, Graduate course @ CCNY):** This graduate class provides an introduction to exploratory data analysis, machine learning techniques and predictive models. These include analysis and modeling of environmental data, detecting trends, seasonality, distributional properties, and spatiotemporal variability in data. Students also learn dependence measures, and how to build generalized linear and non-linear cross-validated predictive models. I also introduce hierarchical Bayesian models. By the end of this class, the student will be able to develop capacity to analyze and model key environmental data in climate, water, ecology, and natural resources, model the space and time variability and the potential interrelations across multiple variables, develop...
linear and non-linear models using state of the art parametric and non-parametric techniques. **This is a new course I introduced in the CE department.** I am using this course to train graduate students and senior level undergraduate students in advanced data analysis methods that will be useful for their research or jobs. *Spring 2017*

- **Water Resources Systems Analysis (G 9100, Graduate course @ CCNY):** This graduate course includes modules on integrated water management and water systems analysis. Students learn water supply/demand imbalances, the modeling and design of regulatory systems for water allocation and tools for conservation incentives. They also learn about the multi-scale view of operation and planning from weekly to seasonal to decadal timescales for multiple, competing objectives. This class provides a structured introduction to the integrated analysis of physical and institutional systems for water management and development. Multiple scales and settings, from developing country villages to a US city water supply to regional watershed restoration to national planning are taught. The emerging global water crisis driven by rapid population growth and its relation to agricultural water is a recurrent theme in the class. Novel topics include the consideration of climate variability and change in developing system operation rules and infrastructure planning. **This is a new course I introduced in the Water Resources and Environmental Engineering graduate program.** I am using the course as a platform to train graduate students and senior level undergraduate students in water resources research. *Spring 2016, Spring 2018*

- **Civil Engineering Decision and Systems Analysis (CE 31600, Undergraduate course @ CCNY):** This undergraduate class provides fundamentals of engineering economic analysis and project evaluation, the general standard principles of systems analysis and optimization. It also provides the basic elements of mathematical modeling to formulate typical CE design and decision problems. Students will solve CE design and decision-making problems using systems methodology and use computers to assist in the solution of such problems. Students learn modeling and optimization of large-scale CE systems, including structures, hydraulic, environmental, and transportation systems, and construction projects. They also learn economic evaluation of engineering projects, decisions under uncertainty, design and planning. **I completely revamped this course, developed supplemental material** and am using the course projects to explore CE Club competitions. *Fall 2015, Fall 2016, Fall 2017*

- **Civil Engineering Data Analysis (CE 26400, Undergraduate course @ CCNY):** This undergraduate class provides an introduction to applied probability and statistics to develop the capacity to analyze and model key data frequently encountered in engineering. It lays the mathematical foundation necessary to analyze engineering systems. Essential techniques, their underlying ideas, and applicability for solving Civil Engineering problems are taught. Upon completion, students will be able to use the basic concepts of probability and statistics to understand and evaluate engineering problems. **I developed electronic lecture notes that will eventually be translated into an online textbook.** The notes along with the unique CE projects that I designed are exposing students to real-world Civil Engineering data analysis problems. **The thematic computer programing modules are a unique feature that I developed as an improvement.** The weekly labs help in better understanding of the concepts discussed during the week.
through actual data and simulations. Fall 2013, Spring 2014, Fall 2014, Spring 2015, Fall 2015, Spring 2016, Spring 2017, Spring 2018

All Civil Engineering courses have a mandatory final project. I am effectively using this to infuse and strengthen the ideas of team ethics, writing and communication, and debates. I am making computer programming a part of all the courses/modules. I usually invite the members from the industry to deliver guest lectures in the classes so the students can learn and benefit from the discussion on the outcomes and experiences from the real world. I recruit highly motivated and eligible students from the classes to work with me during the summers. The projects will provide exposure for the students to engage in engineering consulting and stakeholder engagement at a very early age. This dynamic interaction with experts from agencies and industries provides what the 21st century student needs to carry through to STEM professions. I am also actively involved with students in designing investigative projects for independent study and conference presentations.

In addition to this, I am also an active mentor in the CUNY CREST’s High School program and directly mentor high school students. Since 2014, the summer high school program within CREST Institute was expanded to a High School Initiative in Remote Sensing of Earth Systems Science and Engineering (HIRES) program in partnership with American Museum of Natural History and funded by the Pinkerton Foundation. The HIRES program recruits and engages high school students in hands-on research and experiential opportunities and helps them understand global and regional environmental issues while providing three college credits. I train the high school students in data analysis along with mentoring them in research projects.

Professional Services

Technical Committees:

• **Member, Technical committee** on development of Freshwater Health Index led by Conservation International.

  The Freshwater Health Index will assess the status of specific benefits that people receive from freshwater ecosystems, using a large and diverse set of information on ecological, biophysical and socio-economic characteristics. These characteristics include, the amount of water flowing through an ecosystem at any time, water quality or the species present in an ecosystem. The findings will then be delivered through a data-rich and user-friendly website that will provide a wide range of stakeholders — including landscape and water managers, planners, businesses and policymakers — with the information they need to help reverse the current global trends of freshwater ecosystem degradation and service loss. Conservation International heads this project. I am a member of the technical committee developing this index.

• **Chair, Graduate Research Award committee** for Natural Hazards focus group, American Geophysical Union (AGU), 2015 – 2016.

  Every year The AGU Natural Hazards Focus Group presents awards to young scientists engaged in studies of natural hazards and risks. As the chair of the graduate award committee, we recognize one or more promising young scientists for outstanding contributions achieved during their Ph.D. research.
Editorial Services:

Chairing Technical Sessions:
• **Co-chair**, The Roles of Atmospheric Circulation and Climate Variability in the Occurrence of Hydrometeorological Extremes: Diagnosis, Modeling and Prediction, AGU Fall 2017.
• **Chair**, Bayesian Methods and Multilevel Models for Hydroclimatic Applications, AGU Fall 2014.

Professional Affiliations
• American Geophysical Union (AGU)
• American Society of Civil Engineers (ASCE)
• American Meteorological Society (AMS)
• American Water Resources Association (AWRA)

Reviewer

Proposals
• NSF Environmental Sustainability (Water Panel), 2018
• NSF Geography and Spatial Sciences, 2017
• NSF Hydrologic Sciences, 2016
• NSF Paleoclimate program, 2015

Journals
• Journal of Hydrology 2015, 2017
• Journal of Water Resources Planning and Management 2011, 2012
• Journal of Water and Climate 2011, 2013
• Journal of American Water Resources Association 2012
• Hydrology and Earth System Sciences, 2013, 2014
• Geomatics, Natural Hazards and Risk, 2014
• Climate Dynamics, 2014
• Climate Research, 2017
• Risk Analysis, 2015
Future Plan

The research presented here forms the core exploration and methodological development for the ongoing studies on America’s Water, droughts, water sustainability, and extremes analysis. My future vision will focus on continuing to advance the science of risk management with applications to water resources planning, focusing on climate-informed decision frameworks.

Water Risk and Sustainability

My future research in this direction will expand to consider specific investments in water sector development to support sustainable water, energy and food futures for the USA, China, and India. I will consider changing climatic factors, global trade markets, and measures to enhance productivity, including policy and technology strategies for water storage, distribution, crop choice, and on-farm water, fertilizer, and pesticide application. Given that a significant portion of the agricultural economy is dependent on the stochastic nature of rainfall, an essential element is to develop probabilistic climate and crop yield information a season ahead to facilitate water and agricultural sector planning within and across nations. Mitigating climate risks by adapting existing water allocation and crop selection rules to anticipated condition, within country and hedging strategies for managing grain stocks and imports will provide a multi-level climate change adaptation strategy. Progress towards such adaptation is being pioneered by the private sector (large corporations dependent on agricultural commodities). I plan to continue and extend my existing collaborations with private companies and develop the scientific analysis that facilitates the success of such risk hedging mechanisms in value chains.

Bayesian Statistical Modeling

I will expand the Bayesian statistical modeling to the continental scale to understand the low-frequency climate variability at decadal and longer timescales with a particular focus on streamflow reconstructions. While there is extensive literature on reconstructing variables like temperature and drought indices at a larger scale, there has not been a comprehensive effort at the paleo-reconstruction of continental streamflow. The directed dependence structure of flows on a river network and the possible modification of river flows by human activity are two possible reasons why the hydroclimatic community has not addressed this task in a comprehensive manner. Consequently, the understanding of low-frequency climate variability as it impacts water resources management is limited by historical records that are rarely longer than a century. This limitation also leads to a lack of climate context as one seeks to assess the nonstationary regional fingerprints of recent and projected climate changes on streamflow. My future research will address this gap by developing Hierarchical Bayesian Models for streamflow reconstruction on a river network using regional tree-ring chronologies, and directly considering the spatial dependence structure of flows on the network. Further, I also propose to develop stochastic simulations of reservoir inflows conditioned on the paleoclimatic records and
extended quasi-periodic information in these records for better informing reservoir decision rules.

**Global Flood Prediction**

I am currently working on the Global Flood Project to develop innovative statistical methods for local and global flood risk estimation. It integrates key topography, asset, population density, climate and other socio-economic databases to provide a robust platform for the best possible risk estimates for actuarial and portfolio analysis. Specifically, I am working on developing a modeling strategy that can simultaneously explore the non-stationarity in climate and the regional spatial variations in the occurrence of the extreme events. I plan to continue on this effort and pioneer novel statistical approaches for flood risk estimation.

**Droughts**

I plan to explore how paleo reconstructions can be used to improve the evaluation of the return periods of projected droughts relative to current or projected demand. Further, for many management and risk assessment applications, forecasting drought onset, duration and severity are essential. In this direction, I intend to explore the development of such a prediction procedure and its potential application for regional water resource management.

**Future Teaching Innovations**

Intellectual and practical understanding of water management and climate along with enthusiasm towards data science among students from an early age is fundamental to the future of water and environmental sustainability. Furthermore, the effectiveness of STEM education will be one of the determining factors in addressing the challenges of 21st century and in producing a quality workforce for the global marketplace. They should be able to communicate the science, be curious and capable of working in a team environment. Besides, they need specific skills such as proficiency in the latest software tools, experience with data analysis and modeling, computer programing and product development cycles to make immediate contributions. I will establish educational pathways (*High School to College and College to Workforce*) in support of next-generation STEM education and workforce development with knowledge in water and environmental sustainability. I will establish these platforms through the consortium that I built around High Schools, Universities, Public Agencies, and Industries. It will serve as a stage for research to operations and mutual learning on the dynamics of natural systems, human actions, and environmental sustainability.
Naresh Devineni
Assistant Professor, Department of Civil Engineering
Associate Director, Center for Water Resources and Environmental Research
Faculty Affiliate, NOAA – Cooperative Remote Sensing Science and Technology Center
Faculty Affiliate, CUNY CREST Institute
The City University of New York (City College)
106 Steinman Hall, 160 Convent Ave, New York, NY – 10031, USA
Phone: (212) 650-8440 Fax: (212) 650-6965 Email: ndevineni@ccny.cuny.edu
Website: http://www.nareshdevineni.com
Data Science Blog: http://www.dataanalysisclassroom.com

PROFESSIONAL PREPARATION
North Carolina State University, Raleigh Civil Engineering PhD 2010
North Carolina State University, Raleigh Civil Engineering M.S 2007
Osmania University, Hyderabad, India Civil Engineering B.E 2005

APPOINTMENTS
The City University of New York (City College)
Assistant Professor, Department of Civil Engineering Sep 2013 – Present
Associate Director, Center for Water Resources and Environmental Research Sep 2015 – Present
Faculty Affiliate, NOAA CREST Center Sep 2013 – Present
Faculty Mentor, CUNY CREST Institute Sep 2013 – Present

Columbia University
Associate Research Scientist, Columbia Water Center, Earth Institute June 2012 – Aug 2013
Adjunct Assistant Professor, Earth and Environmental Engineering Jan 2012 – Aug 2013

World Bank
Consultant, Africa Region Water Resources Unit Aug – Dec 2009

North Carolina State University
Research Associate, Civil, Construction and Environmental Engineering May – July 2010
Research Assistant, Civil, Construction and Environmental Engineering May 2006 – Apr 2010
Teaching Assistant, Civil, Construction and Environmental Engineering Aug 2007 – July 2010

MVR Infra Projects Pvt. Ltd, India
Project Intern Jun 2003 – July 2003
SCHOLARLY AND PROFESSIONAL HONORS

1. **Early CAREER Award**, Department of Energy, Office of Science, 2017. 59 awardees are selected from 700 proposals nationwide.

2. **EPA’s National Award for Campus Rainwater Challenge**, Faculty Advisor for CUNY, 2016. Selected as the First Place Winner in Master Plan Category among 60 student teams from 30 States.

3. **Ralph E. Powe Junior Faculty Award**, Oakridge Associated Universities (ORAU) for 2015 – 2016. 35 applicants are selected among 134 from 115 associated institutions.

4. **Blavatnik Award for Young Scientists nominee** from City College of New York (CUNY) for 2015 – 2016.

5. **Certificate of Recognition for Outstanding Scholarly Achievements** and Contributions, CUNY “Salute to Scholars”, 2015.


7. **Emerging Scholars Award (finalist)** for Global Water Forum’s discussion papers on global water issues, 2012. 10 finalists are selected from 800 entries globally.

8. **Lorenz Straub Award nominee** from North Carolina State University for PhD dissertation, 2010.

9. **Outstanding Student Paper Award** under hydrology section, AGU Fall Meeting, San Francisco, California for the presentation based on Master’s thesis research. Outstanding student paper awards were awarded for top 5% out of a total of 650 student papers presented in the Hydrology Section, Dec 2007.


11. **Full Tuition Scholarship** with Graduate Research and Teaching Assistantship at North Carolina State University, May 2006 - May 2010.

12. **Mentored Teaching Assistantship Award**, Awarded by the College of Engineering, NCSU, to provide engineering graduate students with an opportunity to gain teaching experience beyond that of a regular teaching assistant, Spring 2009.

13. **Third Place Award** in the poster presentation for PhD research at the Water Resources and Environmental Engineering, Graduate Research Symposium, NCSU, Spring 2008.

JOURNAL PUBLICATIONS

Summary

<table>
<thead>
<tr>
<th>Journal</th>
<th>Publications</th>
<th>Impact Factor</th>
<th>Publisher</th>
</tr>
</thead>
<tbody>
<tr>
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</table>
Published and In Press

* Graduate Students


**BOOKS AND BOOK CHAPTERS**


**PUBLISHED DATASETS AND SOFTWARE**

1. Contribution to water stress indices (Normalized Deficit Index (NDI) and Normalized Deficit Cumulated (NDC)) for India Water Tool Version 2 (http://www.indiawatertool.in), developed by the World Business Council for Sustainable Development (WBCSD), 2015. {The India Water Tool Version 2 (IWT 2.0) is an online tool for companies and users to understand their water risks and prioritize actions toward sustainable water management}.

**WHITE PAPERS, DISCUSSION PAPERS AND RESEARCH REPORTS**


3. India’s water: A reflection of a nation’s soul?, Centers for International Projects Trust Sandesh, Opinion article with Upmanu Lall, September 2014.

4. Delaware reservoir’s drought risk assessment, a paleo view, 11th International Hydro-informatics Conference paper, August 2014.

5. Quantifying the dimensions of water risks under climate variability and current demands, Global Water Forum discussion paper, April 2014.


8. Securing the future of India’s “water, energy and food”, Global Water Forum Discussion Series 1240, Global Water Forum, UNESCO, October 2012 {Emerging Scholars Award Finalist-selected among 800 entries globally}.


11. Utilizing three-month ahead multimodel streamflow forecasts for improving the management of Falls Lake, project report, Water Resources Research Institute, University of North Carolina.

12. Multi-model ensembling of probabilistic streamflow forecasts: Role of predictor state space in skill evaluation, Institute of Statistics Mimeo Series, Art No, 2595, North Carolina State University.


**RESEARCH GRANTS (Cumulative Funding from September 2013 – August 2017(4 years) - $1,296,894)**

**Current**

1. Multi-scale modeling of extreme events and impact information, Department of Energy, Office of Science, Biological and Environmental Research (DOE Early CAREER), $762,097, September 15, 2017 – September 14, 2022. (PI)

2. America’s water - The changing landscape of risk, competing demand and climate, National Science Foundation – Water Sustainability and Climate (NSF - WCS) through Columbia University, $182,293, September 1, 2014 – August 31, 2018. (co-PI)

3. CASTOR Campus rainwater design, Environmental Protection Agency (EPA), $3000, September 1, 2017 – August 31, 2018. (PI)

**Completed**


5. Multisite paleo - reconstruction of Missouri River streamflows from tree ring data, National Science Foundation – Paleo Perspectives on Climate Change (NSF - P2C2), $117,120, July 1, 2014 – June 30, 2017. (PI)

6. An agent-based disaster response inference model for assessment of transportation risk under extreme rainfall events, University Transportation Research Center (UTRC Region 2), $80,000, June 1, 2015 – August 31, 2016. (PI)

7. Water sustainability, drought risk and food security in the 21st century – A systematic assessment of climate and competing demands using in-situ and satellite data, National Oceanic and Atmospheric Administration (NOAA) through CICS, University of Maryland, $69,139, January 1, 2015 – December 31, 2016. (PI)

8. The utility of radars for hydrologic design in a changing climate: An application for the New York City’s storm sewer system, Professional Staff Congress of City University of New York (PSC – CUNY), $5,999, July 1, 2015 – December 31, 2016. (PI)

9. Integrating radars, rain gauges and climate for non-stationary hydrologic risk assessment and infrastructure design, Ralph E. Powe Junior Faculty Enhancement Award, Oakridge Associate Universities (ORAU), $10,000, July 1, 2015 – June 30, 2016. (PI)

10. New York’s water sustainability and drought risk in the 21st century - A systematic assessment of climate, competing demands, institutional constraints and economic impacts, City University of New...
York – Collaborative Incentive Research Grant (CUNY – CIRG), $29,970, September 30, 2014 – October 07, 2015. (PI)


**TEACHING**

**Advanced Data Analysis (G 1101, Graduate course @ CCNY)**

The course introduces exploratory data analysis, analysis and modeling of engineering data that includes detecting trends, seasonality and distributional properties, recognizing spatio-temporal variability in data, dependence measures, building generalized linear and non-linear cross-validated predictive, and hierarchical Bayesian modeling.

**Water Systems Analysis (G 9100, Graduate course @ CCNY)**

The course includes modules on integrated water management and water systems analysis including water supply/demand imbalances, the modeling and design of a regulatory system for water allocation and tools for conservation incentives, and a multi-scale view of operation and planning from weekly to seasonal to decadal planning for multiple, competing objectives.

**Civil Engineering Decision and Systems Analysis (CE 31600, Undergraduate course @ CCNY)**

This class provides fundamentals of engineering economic analysis and project evaluation, the general standard principles of systems analysis and optimization. It also provides the fundamental of mathematical modeling to formulate typical CE design and decision problems.

**Civil Engineering Data Analysis (CE 26400, Undergraduate course @ CCNY)**

This class provides an introduction to applied probability and statistics to develop capacity to analyze and model key data frequently encountered in engineering. Key techniques, their underlying ideas and applicability for solving Civil Engineering problems are considered. I developed an electronic lecture notes that will eventually be translated into an online textbook. The notes along with the special CE projects that I designed are exposing students to real world Civil Engineering data analysis problems. The thematic computer programing modules are a unique feature that I developed as an improvement to CE264.

**Management and Development of Water Systems (W 4100 Graduate course @ Columbia University)**

This class provides a structured introduction to the integrated analysis of physical and institutional systems for water management and development. Multiple scales and settings, from developing country villages to a US city water supply to regional watershed restoration to national planning are considered. The emerging global water crises driven by rapid population growth and its relation to agricultural water use are discussed. Novel topics include the consideration of climate variability in developing system operation rules and infrastructure planning.

**DataAnalysisClassroom.com (Blog on Data Science)**

I am the creator of the data science blog [http://www.dataanalysisclassroom.com](http://www.dataanalysisclassroom.com) where people of all backgrounds and ages can learn data analysis, probability and statistics in a fun and intuitive way without
the technical lingo.

**High School Boot camps with CUNY CREST Institute**

CREST Institute has created a High School Initiative in Remote Sensing of Earth Systems Science and Engineering (HIRES) program in partnership with American Museum of Natural History and funded by the Pinkerton Foundation to create an exemplary science and engineering mentoring program for High school students from under-represented minority communities and prepare them for college in STEM fields. I created learning and engaging modules on water sustainability and data science. Every summer, I conduct boot camp training on water management and data analysis for HIRES students.

**ADVISING**

**Ph.D. Students**

**Graduated**

1. **Elius Etienne**
   - Demand sensitive drought indices for water management over the continental USA.
   - *Present:* Water systems engineer at Gedeon GRC Consulting.

**Current**

2. **Nasser Najibi**
   - Hydroclimate drivers and atmospheric dynamics of floods.

3. **Arun Ravindranath**
   - Dynamic risk framework for water management and environmental sustainability.

4. **Jeongwoo Hwang**
   - Bayesian hydrologic models for predicting floods (tentative).

5. **Ehsan Najafi (Co-advising)**
   - Global drought risk assessment and linkages to food security.

6. **Saman Armal (Co-advising)**
   - Extremes analysis for continental USA.

**M.S. Students**

**Graduated**

7. **Omar Hammad**
   - Water policy and ecosystems risk assessment for inter-state river basins (Thesis).
   - *Present:* US EPA, NY.

8. **Bhavya Reddy**
   - Urban hydrologic design (Project).
   - *Present:* Federated conservationist of Westchester County, NY.

9. **Julio Vidal (Co-advised)**
   - Extremes analysis for Porto Rico (Thesis).
   - *Present:* Civil Engineer, US Army Corps of Engineers.
Current

B.S. Students

Graduated
10. **Lawrence Vulis**  
   Snow depth analysis for high elevation basins.  
   *Present:* Pursuing Ph.D. at University of California, Irvine with Efi Foufoula-Georgiou

11. **Omar Hammad**  
   Flood models for NYC Water supply system.  
   *Present:* Environmental Engineer at US Environmental Protection Agency (EPA)

12. **Lea Rivera**  
   Paleo reconstruction and drought risk assessment for Delaware water system.  
   *Present:* ---

13. **Mahi Kohinoor**  
   Multivariate flood risk assessment for dams in the NE USA.  
   *Present:* Environmental Project Manager, Department of Design and Construction, NYC.

Current

14. **Ariel Mazor**  
   Multi-scale modeling of rainfall extremes.

15. **Abraham Rubel**  
   Drought analysis for USA.

16. **Cesar Hincapie**  
   Urban rainfall risk analysis.

17. **Aye Phyu**  
   Spatial analysis for rainfall extremes.

Other Advising Beyond CUNY

18. **Chen Xi**, Ph.D. in Water Resources, Visiting Scholar from Hohai University  
   Bayesian methods for streamflow forecasts and water risk metrics for China.  
   *Present:* Senior Engineer at Chang Jiang Water Resources Commission, Nanjing, China.

19. **Ge Pu (Drexel University)**, M.S. in Water Resources  
   Urban flood assessment.  
   *Present:* Pursuing Ph.D. at State University of New York.

PANELS AND INVITED TALKS

1. **Brookhaven National Labs seminar**: Understanding the structure and dynamics of long-duration floods using physics informed Bayesian multilevel models, Upton, January 2018.
2. **AGU Public Administration session on America’s Water**: America’s water in the 20th century: Measures to address climate induced risk, New Orleans, December 2017.


6. **Institute of Asian Research, University of British Columbia, Vancouver, Canada**, Workshop on Challenges of Urbanization, Shining India? Assessing and addressing the risk from an unsustainable trajectory of climate, water, food, energy and incomes, April 2016.


8. **AGU Nonlinear Geophysics session on Hydrologic Dynamics and Analytics**: Scaling of extreme rainfall areas at a planetary scale, San Francisco, December 2015.


11. **Faculty Mentor** for CUNY CREST’s High School Initiative in Remote Sensing of Earth System Science and Engineering (HIRES), Summer 2015.

12. **Panel of Climate Change, 1st International Conference on Historic Links between USA and Spain**, From Climate to Water Risk Management, Multi-scale Strategies and Uses, Alcala, Spain, April 2015.


16. **Faculty Mentor** for CUNY CREST’s High School Initiative in Remote Sensing of Earth System Science and Engineering (HIRES), Spring 2015.

17. **Faculty Mentor** for CUNY CREST’s High School Initiative in Remote Sensing of Earth System Science and Engineering (HIRES), Summer 2014.

18. **Panelist**, CREST Institute’s Research and Education for Undergraduates (REU), June 2014.


21. **Panelist and Faculty Mentor** for World Economic Forum’s Global Leadership Fellows Training
Program: Climate change risk and response, A New York City case study, July, 2013.

22. **Delaware River Basin Commission** Regulated Flow Advisory Committee Meeting: Mitigating summertime thermal stress in the upper main stem of the Delaware, with Prof. Peter Kolesar, December 2012.

23. **Panelists**, CSR as a Driving Force behind PPPs: A Case Study in Water Sustainability, CSR Americas, May 2012, Quito, Ecuador.

24. **World Bank discussion** on India Food Security Reforms: India can feed itself, raise farm incomes, shift crops, save water and energy: Optimal dreams, January 2011, Washington DC.

25. **IRI Seminar Series**: Improved prediction of winter precipitation and temperature over the continental United States: Role of ENSO state in developing multimodel combinations, October 2010.

26. **NOAA Office of Hydrologic Development**: Improved prediction of winter precipitation and temperature over the continental United States: Role of ENSO state in developing multimodel combinations, December 2009.

**PROFESSIONAL SERVICES AND ACTIVITIES**

**Technical Committees**

1. **Member**, Technical committee on development of Freshwater Health Index led by Conservation International. The Freshwater Health Index will assess the status of specific benefits that people receive from freshwater ecosystems, using a large and diverse set of information on ecological, biophysical and socio-economic characteristics. These characteristics include, the amount of water flowing through an ecosystem at any time, water quality or the species present in an ecosystem. The findings will then be delivered through a data-rich and user-friendly website that will provide a wide range of stakeholders — including landscape and water managers, planners, businesses and policymakers — with the information they need to help reverse the current global trends of freshwater ecosystem degradation and service loss. Conservation International heads this project. I am a member of the technical committee developing this index.

2. **Chair**, Graduate Research Award committee for Natural Hazards focus group, American Geophysical Union (AGU), 2015 – 2016. Every year The AGU Natural Hazards Focus Group presents awards to young scientists engaged in studies of natural hazards and risks. As the chair of the graduate award committee, we recognize one or more promising young scientists for outstanding contributions achieved during their Ph.D. research.

**Editorial Services**


**Chairing Technical Sessions**


2. **Chair**, Bayesian Methods and Multilevel Models for Hydroclimatic Applications, AGU Fall 2014.

**Memberships**

1. American Geophysical Union (AGU)
2. American Society of Civil Engineers (ASCE)
3. American Meteorological Society (AMS)
4. American Water Resources Association (AWRA)

**Reviewer**

**Proposals**
1. NSF Environmental Sustainability (Water Sustainability Panel), 2018
2. NSF Geography and Spatial Sciences, 2017
3. NSF Hydrologic Sciences, 2016
4. NSF Paleoclimate program, 2015

**Journals**
8. Geomatics, Natural Hazards and Risk, 2014
9. Climate Dynamics, 2014
10. Climate Research, 2017
11. Risk Analysis, 2015
15. Structures and Infrastructure, 2018

**CONFERENCE PROCEEDINGS**

**American Geophysical Union**
1. America’s water in the 20th century: Measures to address climate induced risk, Naresh Devineni, AGU Fall Meeting 2017 *Invited Talk*.


16. A road map for America's water for the next 20 years, Upmanu Lall, et al., AGU Fall Meeting 2016.


18. Scaling of extreme rainfall areas at a planetary scale, Naresh Devineni, Upmanu Lall, Chen Xi and Philip Ward, AGU Fall Meeting 2015 {Invited Talk}.


23. Spatiotemporal properties of floods and extreme hydroclimatological characteristics for large reservoirs in Missouri River basin, Nasser Najibi and Naresh Devineni, AGU Fall Meeting, 2015.


32. The spatial scaling of global rainfall extremes, Naresh Devineni, Chen Xi, Upmanu Lall, Bianca Rahill-Marier, AGU Fall Meeting, 2013.


35. Understanding scale in flooding: the role of drainage area, heavy precipitation and model resolution, Tara Troy, Naresh Devineni, Upmanu Lall, AGU Fall Meeting 2013.


40. Sensitivity of storage systems in India: role of human behavior responsive to low frequency climate variations, Naresh Devineni, Shama Perveen, Upmanu Lall, AGU Fall Meeting, 2010

41. Quantifying the dimensions of water crisis in India: spatial water deficits and storage requirements, Shama Perveen, Naresh Devineni, Upmanu Lall, AGU Fall Meeting, 2010

42. Artificial neural network models for long lead streamflow forecasts using climate information, Jitendra Kumar, Naresh Devineni, AGU Fall Meeting, 2007

43. Predictability of US winter precipitation: role of ENSO state in developing multimodel combinations,
44. Multi-model ensembling based on predictor state space: seasonal streamflow forecasts and causal relations, Sankar Arumugam, Naresh Devineni, Sujit Ghosh, AGU Fall Meeting, 2006

European Geosciences Union

45. The tele-connections of long duration floods and their implications for dynamically updating the flood control pool, Nasser Najibi, Naresh Devineni and Upmanu Lall, EGU General Assembly Conference, 2016 {Invited Talk}.


47. Moving towards a new paradigm for global flood risk estimation, Tara Troy, Naresh Devineni, Carlos Lima, Upmanu Lall, EGU General Assembly Conference, 2013


American Society of Civil Engineers

49. Climatology of monthly runoff: causality and relations to seasonality in precipitation and temperature, Naresh Devineni, Sankar Arumugam, World Environmental and Water Resources Congress, 2010


Other

51. Understanding the structure and dynamics of long-duration floods using physics informed Bayesian multilevel models, Brookhaven National Labs Seminar Series, January 2018 {Invited Talk}.


54. America’s water in the 20th century: Measures to address climate induced risk, 5th CUAHSI Biennial Symposium, National Conservation Training Center, Shepherdstown, July 2016 {Invited Talk}.

55. Shining India? Assessing and addressing the risk from an unsustainable trajectory of climate, water, food, energy and incomes, Workshop on Challenges of Urbanization, Institute of Asian Research, University of British Columbia, Vancouver, Canada, April 2016 {Invited Talk}.


60. From Climate to Water Risk Management, Multi-scale Strategies and Uses, Naresh Devineni, International Conference on Historic Links between USA and Spain, Alcala, Spain, April, 2015. {Invited Talk}

61. Climate Induced Hazards: Prospects for Modeling Multi-attribute and Portfolio Risk, Upmanu Lall and Naresh Devineni, American International Group (AIG), New York, February, 2015. {Invited Talk}

62. A peak at America’s water over the 20th century: Climate and Food Drivers, Naresh Devineni and Upmanu Lall, National Science Foundation (NSF), Arlington, February, 2015.


64. Shining India?: Assessing and addressing the risks from an unsustainable trajectory of climate, water, food, energy and incomes, Naresh Devineni, Water Workshop, Madurai, India, January, 2015. {Invited Talk}


66. A non-parametric multivariate space-time simulator for weather variables, Upmanu Lall and Naresh Devineni, Columbia University workshop on Climate, Risk and Statistics, New York, December 2014. {Invited Talk}


68. Flood Risk Assessment for Dams in the Northeast USA: Multivariate Risk Attribution, Spatial Manifestation and Temporal Trends, Kohinoor Mahi and Naresh Devineni, National Oceanic and Atmospheric Administration (NOAA) Educational Partnership Program (EPP) 7th Biennial Education and Science Forum, University of Maryland, Eastern Shore, Princess Anne, October 2014 {Kohinoor Mahi, Undergraduate Scholar received 1st prize in student presentation under Climate Change Adaptation and Mitigation Section}.

69. Delaware reservoir’s drought risk assessment, a paleo view, Naresh Devineni and Gokce Ceylan, 11th International Conference on Hydroinformatics, New York City, August 2014.


71. Delaware River basin streamflow reconstruction using tree rings: exploration of hierarchical Bayesian techniques, Naresh Devineni, Upmanu Lall, Neil Pederson, Edward Cook, Hierarchical Bayesian Workshop for Climate Field Reconstruction conducted at Lamont Doherty Earth Observatory, Columbia University, February 2011.


73. Improved drought management of Falls Lake reservoir: role of multimodel streamflow forecasts in setting up restrictions, Naresh Devineni, Sankar Arumugam, Annual NC WRRI Conference, Raleigh, October 2008.

75. Improved management of Falls Lake reservoir during the summer season using climate information based monthly streamflow forecasts: role of restrictions in water supply and water quality management, Kurt Golembesky, Sankar Arumugam, and Naresh Devineni, Annual NC WRRI Conference, Raleigh, March 2007.
INFORMATION ITEM: CHANCELLORS UNIVERSITY REPORT REVIEW AND PROPOSED BYLAWS AMENDMENTS -- 1ST READING

Beginning in May of 2018, the Administrative Excellence Initiative team, along with the Secretary to the Board’s office began a review of the items included in the Chancellor’s University Report. After extensive review, it was determined that very few items that appear in the Chancellor’s University Report, report addendum, and report errata require approval by the Board of Trustees and that the Board may delegate its authority to approve certain personnel and other actions to the Chancellor, or the Chancellor’s designee. The Secretary to the Board and the Office of the Chief Operating Officer are recommending amendments to the Board Bylaws specific to certain personnel actions to facilitate these changes. Actions requiring Board action will be formally presented to the Board for approval through the relevant Board committee. All other actions will require approval by the Chancellor, or his/her designee through a process recommended by the Chancellor.

Attached to this information item is 1) a detailed explanation of the proposed amendments to Bylaws VI, and IX. Per Board Bylaw 5.2, proposed amendments to the Bylaws may be adopted at a meeting following the meeting at which they were proposed absent unanimous consent of the Board to waive the prior meeting notice requirement.

SECTION 6.4. APPOINTMENTS TO THE INSTRUCTIONAL STAFF – NOTICES.

a. All full-time appointments to the instructional staff, except as related to tenure or as otherwise provided, shall be made by the board upon the recommendation of the chancellor, or his/her designee.

b. Except for the appointment of persons whose sole educational duties shall be administrative, all original appointments to the instructional staff shall be made to a department. All appointments shall be for one year or less except that the board chancellor, or his/her designee may, in appropriate instances, make appointments for a period not exceeding two years.

c. In the case of the appointment or removal of a chancellor, the affirmative vote of a majority of all members of the board shall be required.

d. Each appointment, other than appointments in the executive compensation plan, shall terminate at the terminal date specified in the appointment. There shall be a university standard letter of appointment. The notice shall state specifically that the appointment is of a temporary nature; that it is subject to financial ability; shall give the terminal date of the appointment, and shall add that services beyond the period indicated in the notice of appointment are possible only if the board (for appointments with tenure or academic permanency) or for other appointments the chancellor or his/her designee, takes affirmative action to that effect.

e. In the position of instructor, there shall be no more than four successive annual reappointments.
f. Appointments and reappointments to a full-time position on the instructional staff, except for those involving granting of tenure or other academic permanency shall be considered final when formally approved by the board chancellor, or his/her designee.

g. All appointments and reappointments, including those with tenure, requiring waivers of the Bylaws will be submitted to the Secretary of the Board of Trustees well in advance of the date on which the action is to take effect and shall be accompanied by up-to-date curriculae vitae, which will be distributed with the advance agenda to the members of the Board of Trustees.

h. All academic or non-academic appointments, promotions, reappointments or grants of tenure or administrative permanency requiring a waiver of the Bylaws will be submitted to the Secretary of the Board of Trustees well in advance of the date on which the action is to take effect, and shall be accompanied by up-to-date curriculae vitae, which will be distributed with the advance agenda to the members of the Board of Trustees.

i. The chancellor or his/her designee shall issue procedures for appointments to the instructional staff not requiring Board action, and shall update those procedures as necessary.

SECTION 9.1. DEPARTMENT ORGANIZATION.

a. Each department, subject to the approval of the faculty or faculty council, where existent, and subject to the provisions of other sections of these bylaws, shall have control of the educational policies of the department through the vote of all of its members who have faculty rank or faculty status; and if it may also choose to permit a vote on departmental matters by persons in visiting professorial titles and other members who have been appointed on an annual salary basis for a first or second year of full-time service. The right to vote for the election of department chairpersons and the departmental committee on personnel and budget, referred to in some colleges as the departmental committee on appointments, shall be reserved to those with faculty rank

b. The executive officer of the department shall be the department chairperson who shall be a professor, associate professor or assistant professor elected by secret ballot for a term of three years, except as provided below, by a majority vote of all the members of the instructional staff of the department who have faculty rank. Proxy or mail voting shall not be permitted. The department chairperson must be tenured or have been approved by the board for tenure at the time of his/her election, except in departments less than seven years old. Such elections shall be subject to the subsequent approval of the president and the board chancellor, or his/her designee. The present system of staggered departmental elections shall be continued. The successors of department chairpersons shall be elected during the first full week in May at the expiration of the respective terms of office to take office as of July first of the year in which they are elected and at the three year intervals thereafter. Vacancies shall be filled by election for the unexpired term. Notwithstanding anything in the foregoing to the contrary, in the library department, the president of the college shall from time to time recommend a member of the department to the board chancellor, or his/her designee for designation as chairperson.
c. In any case where the president does not approve the election of a department chairperson, or at such other time as the interests of the college may require the removal of a chairperson and the appointment of a new one, he/she shall confer with the department and thereafter shall report to the board, through the chancellor any subsequent action by the department with respect thereto, together with his/her own recommendation for a chairperson. The recommendation by the president to the board, through the chancellor, for the designation of the department chairperson should take place only after careful consideration by the president of the qualifications of those selected by the respective departments. The president shall base his/her recommendation on the capacity of the individual selected to act effectively as the departmental administrator and spokesperson and as a participant in the formation, development, and interpretation of college-wide interest and policy.

d. Where there are fewer than three tenured professors, associate professors, and assistant professors in a department, the president may, except where the department has been in existence for less than seven years, after consultation with the departmental faculty, recommend the appointment of a chairperson to the board chancellor from among the members of the department holding professorial rank. Where the department chairperson is recommended by the president pursuant to this subdivision, subdivision “c” of this section, or subdivision “a” of section 9.5, the chairperson need not be tenured.

e. Each department shall operate as follows, unless the governance plan provides otherwise: There shall be in each department a department committee on personnel and budget, referred to in some colleges as a department committee on appointments, consisting of the department chairperson and where possible, of four other members who must have faculty rank. The number of members of faculty rank shall not affect provision for student membership, if a college governance plan so provides. Four of the faculty members of the committee must be tenured, except if the department has fewer than four tenured faculty members. The department chairperson shall be the chairperson of the committee. The four faculty members shall be elected by a majority vote of those persons in the department having faculty rank. Election shall be held at the same time that the department chairperson is elected. A vacancy in the office of the chairperson prior to expiration of his/her term when such vacancy necessitates an election for a new chairperson shall not affect the term of the committee. A president may remove a member of the personnel and budget committee, for good cause, at the request of a majority of the members of such committee. Such request shall be in writing, and the member whose removal is sought shall have an opportunity to respond. If a member of the personnel and budget committee is removed by the President, an election shall be held to fill the vacancy.

In departments with fewer than four tenured faculty members, the president, after consultation with the departmental faculty, shall appoint an ad hoc committee to make recommendations on appointments with tenure in lieu of a committee on appointments or a departmental committee on personnel and budget.

f. There shall be a committee on personnel and budget for the Hunter College Elementary School and a committee on personnel and budget for the Hunter College High School. The committee in each school shall consist of the principal, as chairperson, a designee of the provost of Hunter
College, and three members of the instructional staff of the school who are tenured or will have tenure by the time of service, elected for a term of three years by members of the permanent instructional staff of the school. These committees shall have in each school, insofar as practicable, the same functions as are assigned by these bylaws to a departmental committee on personnel and budget in a college.

g. Each department may name such other committees as it chooses and shall have the fullest measure of autonomy consistent with the maintenance of general educational policy.
Academic Affairs
Modifications
Items to be submitted to full Board for approval

• Honorary Degrees (approved solely by the full board)
• Approval of Start-Up New York Initiatives
Items to be submitted to CAPPR committee for approval

Individual Items for Approval

- New Academic Degree Programs
- Establishment/Closing of New Schools/Departments
- Establishment of University Wide Institutes
- University Wide Academic and Research Policies
- Transfer of Degree granting authority from one institution to another
- Establishment of Campus-Based Centers (currently on CAPPR Agenda as information item)

Board Report

- Changes to Existing Academic Degree Programs that require NYSED approval
- Creation of New Certificate Programs and New Degree Programs from Existing Programs
- Campus Based Academic Policies
- Courses approved for inclusion in General Education
Items to be approved by the Chancellor or Chancellor Designee

• Changes to Existing Academic Degree Programs that do not require NYSED approval

• New courses/ Modification to Existing Courses/Discontinuance of Existing Courses

• Change to the Name of Academic Department (unless this involves a naming opportunity for a donor in which case it should go to the appropriate BOT Committee)

• Creation/Discontinuance of a Minor

• Articulation Agreements

• International Program Agreement
Fiscal Affairs

Modifications
Items and reports submitted to the committee

- Changes to Long term and short term investment portfolios
- Approvals of purchases over $500k
- College Fee report - all fees other than academic excellence fees
- Quarterly Grant report - submitted by each college
Personnel Actions

Modifications
Personnel Actions to be submitted as a report to the FSA committee

- Acting Appointment - Executive - Below VP
- Acting Appointment - Executive - VP and Above
- Appointment - Executive - VP and Above
- Appointment - Faculty - Hire With Tenure
- Appointment - Faculty - Named Chair
- Title Change - Executive - VP and Above
- Fellowship Leave - Full Year
- Fellowship Leave - Half Year
- Transfer - Instructional - Bylaw Waiver
- Presidential Leave
- Position Change - Bylaw Waiver (Position Management)
- Reappointment - Tenurable Staff - Early Tenure
- Reappointment - Tenurable Staff - Tenure on schedule
- Termination - Executive
- 211 Waiver - Retiree Makes Over $30,000
- 212 Notice - Retiree Makes Under $30,000
Welcome to the Chancellor's University Dashboard!

Dropdown to filter by college

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Suggested Reports:

• Legal Department – Monthly Settlement Report

• Institutional Advancement – Monthly Fundraising Report from Campuses
II-B

Policy 8.04 Naming Opportunities

Goals and Objectives

This document will serve to set policy for all naming opportunities at CUNY and its schools and colleges. Given the vast differences between CUNY’s schools and colleges, this policy will help to provide context for development teams and help to bring uniformity across the CUNY system.

Driven by factors beyond actual costs, naming opportunities are an expression of value, a reflection of prestige of association with the CUNY brand, and should be structured to bring a sense of pride to both the donor and CUNY. Naming opportunities can serve as transformational agents for recipient institutions but should also seek to align with national benchmarking standards.

In all cases, naming opportunities should:

1. maximize CUNY’s fundraising potential
2. reflect best practice standards in naming physical assets and funds
3. ensure CUNY’s assets are offered at nationally-tested, competitive levels which support the recipient institution’s advancement
4. align a donor’s philanthropic vision with institutional needs and priorities
5. offer tangible budget relief for the support of operations or provide incremental growth in areas of academic, infrastructural or operational priority
6. create new or support existing academic, programmatic or physical assets

The Role of University Advancement

With an overarching goal to support CUNY colleges and schools in their fundraising objectives, and lead to the successful submission of a naming opportunity for trustee approval, the Office of University Advancement offers the following services:

1. provide national benchmarking data to ensure appropriate level setting
2. create and distribute approved gift agreement and resolution templates
3. draft, edit and review gift agreements for campuses, as necessary and/or requested
4. write gift agreements for all gifts over $10M and for gifts of significant and/or prominent naming opportunities
5. provide support for all trustee approval submissions, including guidance on procedural/requirements, deadlines, Legal and OHRM review.
6. coach and mentor advancement teams and leadership as needed, identifying training opportunities like CASE (Council for Advancement and Support of Education) courses for presidents and deans.

Guidance

The road to a named gift begins with a series of conversations with a prospective donor that help to reveal both donor interest as well as donor goals and capacity. Centered on donor intent and a
philosophical alignment with institutional needs and priorities, these conversations should also reveal where the donor’s gift can best be applied. The process of any naming opportunity represents a tangible synergy between the donor and an institution. Therefore, the resulting naming opportunity is a celebration of the donor’s philanthropy and the institution’s met need.

The opportunity to name a Chair, Deanship, Professorship or Department in recognition and honor of an individual or corporation institution, or to place the name of an individual or corporation institution on a building or part of a building, is welcomed at The City University of New York and its constituent schools and colleges. (BTM,2007,06-25,005,_Q)

Naming Opportunity Requirements

All namings of physical assets, academic programs, and positions require the approval of the CUNY Board of Trustees. (BTM,2007,06-25,005,_Q)

A naming opportunity is generally designed to be consistent with the mission and goals of the University and its schools and colleges to enhance teaching and research and strengthen the academic enterprise and is usually based on the desire to (BTM,2007,06-25,005,_Q):

a) honor the exemplary character, scholarly distinction or distinguished service of an individual

b) recognize a significant financial contribution to the College University and/or its schools and colleges

All naming opportunities should be reviewed by and approved by the College President or School Dean of the soliciting school or college, before formal submission for the naming opportunities process. For significant and prominent naming opportunities, i.e. gifts to name schools, colleges, centers, institutes, and/or buildings, the College President or School Dean must seek to include consultation with the Chancellor, who will advise the Chairman of the Board and the FSA Chair of the opportunity, before any gift can be finalized.

To officially submit a significant and prominent naming opportunity for BOT review, the following steps must also be provided by the president or dean.

1. Rationale for the Gift/Exception

   While the minimum gift amounts as articulated in the minimum gift guidelines should be applied as stated, a campus president or school dean may request an exception. Should a proposed gift fall below the prescribed minimum gift guidance for school naming opportunities, the School or College must submit a request an exception to the guidelines. Additionally, a meeting with the Chancellor (and/or his or her designee) should also be scheduled. If the Chancellor concurs, he or she would endorse the exception and be an advocate for the proposed gift to the CUNY Board of Trustees.

2. Knowledge of Donor/History with President and/or School or College
For significant and prominent naming opportunities, the School or College has an opportunity to paint a picture of the relationship it has had with the donor(s), including their giving history, friend or alumni engagement, the steps taken for this gift, and, if applicable, their service to the College. This should include how long the Dean or President has known the donor(s) and why their name is the ideal name to permanently affix to the School or College. When a gift falls below the minimum gift guidelines, the Dean or President must also articulate what other steps have been taken or with whom have they engaged (other than the donors) for the naming opportunity and should include what other opportunities were offered the donor. If there are other considerations specific to the School or College, the borough, and/or the donors, it can also be included here.

3. Unsigned Gift Agreement

The CUNY Board of Trustees must see how the gift would be framed and what the donor might request of the School or College and the University. Before an agreement can be finalized, CUNY must be able to fulfill the terms of any agreement into which it enters. This, however, should NOT be signed until the Board has had to time to review and discuss.

4. Third Party Due Diligence

Any agreement would be made on the condition of a reputational assessment of the donor to ensure that permanent association with CUNY would be additive and be a complement to the CUNY brand.

Naming Financial commitments and all major gifts, whether recognized by as a naming rights opportunity or not, are reflections on the ideals and reputations of the College and the University and its schools and colleges. Accordingly, each gift and naming commitment opportunity should be reviewed carefully for full compliance with minimum gift guidelines, applicable laws, and ethical principles. (BTM, 2007, 06-25, 005, Q)

The above is especially critical where there is some direct or indirect business or other continuing relationship between the donor and the College and/or the University, its schools and colleges, and/or its officers or employees. Any questions about the applicability of state or federal laws on conflicts of interest and other ethical considerations should be referred to the Office of the Vice Chancellor for Legal Affairs. (BTM, 2007, 06-25, 005, Q)

1. Namings Opportunities Designed to Honor Distinguished Service with No Financial Gift

The merits of any naming opportunity in honor of an individual should be determined by carefully weighing the individual's high scholarship and/or distinguished service. All naming requests must involve a thorough review by the campus to ensure appropriateness and be supported by evidence that the honoree or donor meets the highest values and societal standards. Buildings, campus grounds or other campus facilities will generally not be named for individuals currently employed by the University, or the City or State of New York unless that individual has provided exceptionally distinguished service over a sustained...
When the person to be honored is living, one year should have passed since any formal association with the University or employment with the City or State of New York. The naming of buildings, campus grounds, or other campus facilities in recognition of an honoree implies a promise to the honoree that the space, site, facility, and or other forms of tangible recognition, will be permanently maintained, or if change is unavoidable, that an alternative means of recognition will be found with appropriate historical reference to the original naming opportunity, as necessary. (BTM,2007,06-25,005, Q)

2. Naming Opportunities for Cumulative Giving

In order to fully maximize CUNY’s philanthropic potential, naming opportunities to acknowledge existing donors with robust giving histories should be used in rare instances. For example, when a donor’s lifetime giving is not only substantial but also has not previously been reflected in any other naming opportunities, a cumulative giving naming opportunity may be appropriate. Naming opportunities for cumulative gifts can limit the ability to offer that naming opportunity to another donor.

3. Namings Opportunities Designed to Recognize a Significant Financial Contribution to the College

A naming opportunity is usually appropriate only when a significant gift is received which is consistent with established minimum gift guidelines. All naming requests opportunities must involve a thorough review by the campus to ensure appropriateness and be supported by evidence that the donor and/or honoree donor meets the highest values and societal standards. Buildings, campus grounds or other campus facilities will generally not be named for individuals currently employed by the University, or the City or State of New York. When the person to be given a naming opportunity is living and is a former employee, one year should have passed since any formal association with the University or employment with the City or State of New York unless the donor(s) provide(s) a sufficient gift in honor of that individual. There is no such waiting period required for honorees with no previous association with the University. The naming of buildings, campus grounds, other campus facilities or endowed funds in recognition of a donor or honoree implies a promise to that donor or honoree that the space, site, facility, endowment fund and/or and other forms of tangible recognition will be permanently maintained, or if change is unavoidable, that an alternative means of recognition will be found with appropriate historical reference to the original naming opportunity, as necessary. Any combination of gifts, pledges and/or irrevocable deferred gift arrangements are acceptable for naming commitments. With respect to deferred gifts, the required gift amounts may should be set higher due to the delay in acquiring access to the gift and the time value of money. (BTM,2007,06-25,005, Q)

4. Process Approval Requirements for Nameding Gift Opportunities
The process of a named gift begins with a discussion with a prospective donor. The discussion should be a flexible negotiation with the objective of acknowledging the donor's support and matching the donor's intent and interest with the College's needs of the soliciting institution. (BTM,2007,06-25,005, Q)

All named gift opportunities should adhere to the minimum gift guidelines and be reviewed and approved by the College President or School Dean before submitted to the central office for preparation for trustee approval. The President or Dean must submit the naming opportunity recommendation to the Chancellor and/or his or her designee (i.e. the Vice Chancellor for University Advancement) with all appropriate documentation. For naming opportunities of physical assets, submitted documentation must also include a statement of reputational standing and a statement of financial wherewithal to fulfill the commitment as promised. Third party due diligence may also be required. All named gift opportunities are pending CUNY Board of Trustee review and approval. If the Chancellor or his or her designee concurs, the recommendation will then be presented to the CUNY Board of Trustees for review and approval. All proposed names naming opportunities for buildings and other facilities should be held in confidence during the negotiation, review and approval process. Each school or college is responsible for maintaining a record of all endowed funds, named buildings, grounds, rooms and other facilities on their campus, in addition to endowed funds. Reports on the status of named gifts will be provided periodically to the CUNY Board of Trustees by the Office of University Development Office Advancement. (BTM,2007,06-25,005, Q)

5. Naming Opportunities and Unsolicited Deferred Gifts

For unsolicited realized bequests, where minimum gift guidelines have been met, a fund (endowed or current-use) should be named as directed by the estate documents. In rare cases where the estate documents contain naming instructions that present a possible challenge to the University, its schools and/or colleges, the final naming opportunity applied to the fund will be left to the discretion of the college President or school Dean.

6. Gift Types Accepted for Naming Opportunities

The City University of New York and its schools and colleges welcome most gift types to fulfill donor commitments made for naming opportunities. Many combination of gift types are permissible. However, conditional pledges, corporate matching gifts, or revocable gifts of any type cannot be used to fulfill personal commitments. Additionally, most life income gifts cannot be used to fund construction projects, unless such gifts are exceptionally significant in size. In-kind gifts cannot be used to fulfill any naming opportunity at the City University of New York or its schools and colleges.
7. **Gift Fulfillment for Naming Opportunities**

7.1. **Physical Assets – Buildings, Campus Grounds, or Any Campus Facilities**

Before any naming opportunity can be associated with any CUNY building or associated with any campus grounds or other campus facilities, the naming opportunity must first be established through and codified by a written gift agreement, and signed by a donor or donor(s) and an authorized CUNY representative. The gift agreement must articulate amount of gift, a gift fulfillment schedule, which includes timing and amount of any installment payments, purpose of gift, and all special terms and conditions. Additionally, 30% of the overall commitment must also first be received by the soliciting campus or office. Gift agreements must specify disposition of any funds received should donor be unable to fulfill the entire commitment as specified in writing.

For all naming opportunities of ten million or more, donors should seek to fulfill the first 30% of their commitment before establishing a multi-year fulfillment schedule. For all naming opportunities, commitments may be fulfilled in a lump sum payment or over a period of years, not to exceed five. Specifically for commitments of ten million or more, a donor’s financial circumstances may require greater flexibility. Any such case should seek guidance from the Chancellor or his or her designee.

7.2. **Current Use or Endowed Funds**

After a naming opportunity has been established through and codified by a written gift agreement, signed by a donor and an authorized CUNY representative, the naming opportunity may be applied immediately. Gift agreements must specify disposition of any funds received should donor be unable to fulfill the entire commitment.

Commitments may be fulfilled in a lump sum payment or over a period of years up to five years. In rare cases, exceptions may be requested from school or college leadership.

8. **Minimum Contribution Levels**

8.1. **Building**

The amount of the contribution required to name a building or part of a building may vary with the cost and the impact of the structure upon campus life. **Colleges Each campus must take into account old/new buildings’ age, state-funded buildings, size of buildings, etc. (BTM,2007,06-25,005,_Q)**

Consultation with the Chancellor prior to offering this opportunity is required.

Minimum gift amount for:

a) Senior Colleges: $15M
b) Community Colleges: $10M

8.2. School

The permanent naming of a school will ensure the growth and quality of the named school by providing the financial support for faculty development, programs, facilities, and scholarship support. (BTM, 2007, 06-25, 005, _Q) (See chart for guidance.)

Minimum gift amount for (BTM, 2007, 06-25, 005, _Q):

a) Senior Colleges: $15 million $20 million – $25 million
b) Community Colleges: $5 million $10 million
c) Professional, Graduate and Specialty Schools (except Macaulay): $20 million – $50 million

8.3. Named Departments/Academic Programs

Funds are expected to be used to enhance academic offerings. (BTM, 2007, 06-25, 005, _Q) Consultation with Chancellor prior to offering is required. (See chart for guidance.)

Minimum endowment amount for (BTM, 2007, 06-25, 005, _Q):

a) Senior Colleges: $2.5 million $3 million – $4 million
b) Community Colleges: $1.25 million $1.5 million
c) Professional, Graduate and Specialty Schools: $3 million – $4 million

8.4. Centers, Institutes, Programs or Academic Units

Funds should be proportional to the amount of endowment that is necessary to sustain an existing program, create a new program or propel the program to new heights on a permanent basis. (BTM, 2007, 06-25, 005, _Q) New academic centers and institutes must meet Board of Trustee regulations and be approved by the Board of Trustee Committee on Academic Policy, Program and Research (CAPPR)

Minimum endowment endowed gift amount for (BTM, 2007, 06-25, 005, _Q):

a) Senior Colleges: $2.5 million $3 million – $4 million
b) Community Colleges: $1.2 million $2 million
c) Professional, Graduate and Specialty Schools: $2 million – $4 million

8.5. Deanships

An endowment for a named Dean provides flexible resources for deans to meet special needs in their schools. For funds to be used as salary supplements, the approval of the Chancellor is required. (BTM, 2007, 06-25, 005, _Q)
Minimum endowed fund amount for (BTM, 2007, 06-25, 005, _Q):
   a) Senior Colleges: $2 million $3 million
   b) Community Colleges: $1 million $2 million
   c) Professional, Graduate and Specialty Schools: $3 million

8.6. Chairs

Funds to be used to supplement salary and fringe benefits of chair holder and auxiliary support staff. Aim is to enhance teaching and research by attracting and/or retaining outstanding faculty. (BTM, 2007, 06-25, 005, _Q)

Minimum endowed fund amount for:
   a) Senior Colleges: $1.5 million
   b) Community Colleges: $1 million
   c) Professional, Graduate and Specialty Schools: $3 million

8.7. Named Professorships

A named Professorship (also known as a Chair) may be established to support disciplines or areas of study which are included in the existing academic offerings of the School or College, or consistent with its mission. It can also be established to enhance teaching and research by attracting and/or retaining outstanding faculty. The endowed funds would supplement the salary and fringe benefits of the professor and provide funds for office and technical support or auxiliary support staff (BTM, 2007, 06-25, 005, _Q)

Minimum endowed amount for (BTM, 2007, 06-25, 005, _Q):
   a) Senior Colleges: $750,000 $1.5 million $2 million
   b) Community Colleges: $750,000 $1 million
   c) Professional, Graduate and Specialty Schools: $2 million $3 million

8.8. Named Scholars/Visiting Scholars/Artist-in-Residence

Cover the needs of the scholar, including support for academic research. (BTM, 2007, 06-25, 005, _Q)

Minimum endowment amount for (BTM, 2007, 06-25, 005, _Q):
   a) Senior Colleges: $500,000 $1 million
   b) Community Colleges: $500,000
   c) Professional, Graduate, and Specialty Schools: $1 million

8.9. Art Gallery (Large and Small)
Galleries can be creatively defined spaces which need not always be a big open space. For example, hallways with extensive white space where art can be displayed can also be named. (See chart for guidance.)

Minimum endowed gift amount for:
- a) Senior Colleges: $2 million
- b) Community Colleges: $500,000 - $1 million
- c) Professional, Graduate, and Specialty Schools: $500,000 - $1 million

8.10. Performance Spaces/Auditorium

Consultation with Chancellor prior to offering space is required.

Minimum endowed gift amount for:
- a) Senior Colleges: $3 million - $10 million
- b) Community Colleges: $1 million
- c) Professional, Graduate and Specialty Schools: $1 million - $2 million

8.11. Laboratories (Large and Small)

Funds are expected to be used as unrestricted funds or to provide support for laboratory maintenance and needs. Consultation with Chancellor prior to offering is required for large laboratory spaces.

Minimum endowed gift amount:
- a) Senior Colleges: $250,000 - $2 million
- b) Community Colleges: $250,000 - $500,000
- c) Professional, Graduate and Specialty Schools: $1 million - $2 million

8.12. Lecture Hall

Funds may be used to support, unrestricted purposes.

Minimum endowed gift amount:
- a) Senior Colleges: $300,000 - $500,000
- b) Community Colleges: $250,000
- c) Professional, Graduate, and Specialty Schools: $500,000

8.13. Library, includes specialized libraries and special collections

Funds can be used to support unrestricted purposes.

Minimum endowed fund amount:
a) Senior Colleges: $1.5 million – $2 million
b) Community Colleges: $1 million
c) Professional, Graduate, and Specialty Schools: $1 million – $2 million

8.14. Scholarships (endowed)

Gifts above the minimum are encouraged. Minimum gift amount is $25,000.

8.15. Fellowships (endowed)

Gifts above the minimum are encouraged. Minimum gift amount for advanced study programs is $350,000.

8.16. Conference Rooms (Large and Small)

Funds can be used to support unrestricted. Minimum endowed gift amount:

a) Senior Colleges: $75,000 – $200,000
b) Community Colleges: $50,000
c) Professional, Graduate, and Specialty Schools: $75,000 – $200,000

8.17. Lectureships

Funds should be proportional to the amount of an endowed fund that is necessary to sustain or propel a program to new heights on a permanent basis. Minimum endowed fund amount:

a) Senior Colleges: $250,000 – $500,000
b) Community Colleges: $200,000
c) Professional, Graduate, and Specialty Schools: $250,000

Gift funds can be used to support unrestricted purposes. (See chart for guidance.)

8.18. Other Named Endowed Funds

For academic development, program innovation, library acquisition, faculty professional travel, equipment, research publications, recognition awards, other gift objectives may be created for sums appropriate for each respective area. (BTM,2007,06-25,005,_Q)

Minimum endowment amount for (BTM,2007,06-25,005,_Q):

a) Senior Colleges: $75,000
b) Community Colleges: $75,000
c) **Professional, Graduate, and Specialty Schools: $75,000**

8.19. Named Academic Awards and Prizes

The Schools and Colleges will not automatically accept modest gifts for endowed departmental awards and prizes. Each purpose and amount must be reviewed on a case-by-case basis as to its merits. (BTM, 2007, 06-25, 005, _Q)

Minimum endowment amount for (BTM, 2007, 06-25, 005, _Q):  
- a) Senior Colleges: $25,000
- b) Community Colleges: $25,000

Special needs or exceptional circumstances that warrant deviation from this policy require the approval of the Chancellor. (BTM, 2007, 06-25, 005, _Q)

The Chancellor or his or her designee will update this policy on a regular basis. (BTM, 2007, 0625, 005, _Q)
## Minimum Gift Level Amounts for Naming Opportunities

<table>
<thead>
<tr>
<th>Opportunity</th>
<th>The Senior Colleges</th>
<th>The Community Colleges</th>
<th>Professional, Graduate and Specialty Schools</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>School</strong></td>
<td>Baruch, Brooklyn, City, Hunter, Queens</td>
<td>John Jay, Lehman, Medgar Evers, City Tech, CSI, York</td>
<td>All</td>
<td>Journalism, SPS, Macaulay**</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Graduate Center, Law, ASRC, SPH</td>
<td>Naming a school or college with an endowed gift not only permanently associates a donor with an academic unit but it also ensures increased stature, enhanced prominence and an ability to maintain a competitive edge or increased quality by providing financial strength and agility. Consultation with Chancellor required prior to offering this opportunity.</td>
</tr>
<tr>
<td>$25M</td>
<td>To name a school within the college</td>
<td>$20M</td>
<td>To name a school within the college</td>
<td>$20M</td>
</tr>
<tr>
<td>$20M</td>
<td>To name a school within the college</td>
<td>$10M</td>
<td>To name the J School or SPS</td>
<td>$10M</td>
</tr>
<tr>
<td>$10M</td>
<td>To name a school within the college</td>
<td></td>
<td>To name GC, Law, ASRC and SPH</td>
<td></td>
</tr>
<tr>
<td>$5M</td>
<td>To name the J School or SPS</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Building</strong></td>
<td>Publicly Funded</td>
<td></td>
<td>See notes (to the right)</td>
<td>The endowed contribution required to name a building or any part of a building will vary according to the associated costs and the impact of the structure upon campus life. Consultation with the Chancellor prior to offering this opportunity.</td>
</tr>
<tr>
<td>Non-Publicly Funded</td>
<td>10 - 25% of cost basis</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Art Gallery</strong></td>
<td>Large</td>
<td>Small</td>
<td>$2M</td>
<td>$1M</td>
</tr>
<tr>
<td></td>
<td>$5M - $10M</td>
<td>$2M - $1M</td>
<td>$1M</td>
<td>$500K</td>
</tr>
<tr>
<td><strong>Performance Space/Auditorium</strong></td>
<td>$2M - $5M</td>
<td>$3M - $5M</td>
<td>$1M</td>
<td>$1M - $2M</td>
</tr>
<tr>
<td><strong>Academic Programs</strong></td>
<td>$4M</td>
<td>$3M</td>
<td>$1.5M</td>
<td>$3M</td>
</tr>
<tr>
<td><strong>Laboratory</strong></td>
<td>Large</td>
<td>Small</td>
<td>$2M</td>
<td>$1M</td>
</tr>
<tr>
<td></td>
<td>$5M - $250K</td>
<td>$1M - $250K</td>
<td>$500K</td>
<td>$2M</td>
</tr>
<tr>
<td><strong>Academic Centers</strong></td>
<td>$2M</td>
<td>$1M</td>
<td>$2M</td>
<td>$4M</td>
</tr>
<tr>
<td>(within a school/college)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Academic Institutes</strong></td>
<td>$7.5M</td>
<td>$3M</td>
<td>$2M</td>
<td>$4M</td>
</tr>
<tr>
<td>(across 2+ schools/colleges)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*Galleries can be creatively defined spaces which need not always be a big open space. Hallways with extensive white space where art is displayed can also be named.*

*The endowed contribution required would depend on capacity + use. Smaller auditoriums + spaces can entertain lower minimums. Consultation with Chancellor required.*

*Endowed funds can be used to enhance or expand academic offerings; may also be used as unrestricted at the discretion of president or dean* (only for those where applicable)

*Funds should support an amount necessary to provide budgetary relief, providing anchoring support or financial momentum to propel program to new heights. Academic centers and institutes must meet trustee regulations and be approved by the BOT Committee on Academic Policy, Program and Research (CAPPR).*
<table>
<thead>
<tr>
<th>OPPORTUNITY</th>
<th>THE SENIOR COLLEGES</th>
<th>THE COMMUNITY COLLEGES</th>
<th>PROFESSIONAL, GRADUATE AND SPECIALITY SCHOOLS</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lecture Hall</td>
<td>$500,000</td>
<td>$300,000</td>
<td>$250,000</td>
<td>$500,000</td>
</tr>
<tr>
<td>Lectureship/Distinguished Lecture Series</td>
<td>$500,000</td>
<td>$250,000</td>
<td>$200,000</td>
<td>$250,000</td>
</tr>
<tr>
<td>Conference Room</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Large</td>
<td>$200,000</td>
<td>$150,000</td>
<td>$50,000</td>
<td>$150,000</td>
</tr>
<tr>
<td>Small</td>
<td>$100,000</td>
<td>$75,000</td>
<td>$50,000</td>
<td>$100,000</td>
</tr>
<tr>
<td>Library</td>
<td>$2M</td>
<td>$1.5M</td>
<td>$1M</td>
<td>$2M</td>
</tr>
<tr>
<td>Library Specialized Library Special Collections</td>
<td>$2M</td>
<td>$1.5M</td>
<td>$1M</td>
<td>$2M</td>
</tr>
<tr>
<td>Smart Classroom</td>
<td>$500,000</td>
<td>$500,000</td>
<td>$250,000</td>
<td>$500,000</td>
</tr>
<tr>
<td>Lounges: Student/Faculty</td>
<td>$250,000</td>
<td>$250,000</td>
<td>$125,000</td>
<td>$250,000</td>
</tr>
<tr>
<td>Classroom: Large</td>
<td>$100,000</td>
<td>$100,000</td>
<td>$50,000</td>
<td>$100,000</td>
</tr>
<tr>
<td>Classroom: Small</td>
<td>$50,000</td>
<td>$50,000</td>
<td>$25,000</td>
<td>$50,000</td>
</tr>
<tr>
<td>Gymnasium</td>
<td>$1M</td>
<td>$1M</td>
<td>$500,000</td>
<td>N/A</td>
</tr>
<tr>
<td>Other Athletic Related Spaces</td>
<td>Depends on use/traffic/prominence</td>
<td>Depends on use/traffic/prominence</td>
<td>Depends on use/traffic/prominence</td>
<td>Subject to submission recommendation to the Chancellor</td>
</tr>
<tr>
<td>Outdoor Spaces: Plaza, Garden, Walkway, Bridge, Foot Path, Arch Breezeway, etc.</td>
<td>Depends on size, location, use, traffic</td>
<td>Depends on size, location, use, traffic</td>
<td>Depends on size, location, use, traffic</td>
<td>The range of these opportunities varies greatly. Minimum gift requirements should be made in consultation with Chancellor.</td>
</tr>
<tr>
<td>Endowed Scholarship</td>
<td>$25,000–100,000</td>
<td>$25,000–100,000</td>
<td>$25,000–50,000</td>
<td>$25,000–100,000</td>
</tr>
</tbody>
</table>

Depends on scope of programming, may also help underwrite previously existing programming. Provides support for lectureship programming, or unrestricted support.

Endowed gifts provides support + maintenance + expansion of a collection or provides support for electronic subscription and other recurring materials. May also provide unrestricted funds.

Generated income from endowed gift can support the maintenance of state-of-the-art technology. A portion of the gift can support installation of that technology as well as provide for systematic upgrades as needed. If smart classrooms exist gift can be used for unrestricted support.

Provides resources for college use.

Subject to submission recommendation to the Chancellor.

Provides regular, ongoing support for students with demonstrated financial need or merit. Can be secured in
<table>
<thead>
<tr>
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<td>John Jay, Lehman, Medgar Evers, City Tech, CSI, York</td>
<td>All</td>
<td>Journalism, SPS, Macaulay** Graduate Center, Law, ASRC, SPH</td>
<td>multiples of the identified minimum. Endowed gifts exceeding the minimum are highly favored.</td>
</tr>
<tr>
<td>Endowed Fellowship</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>$350,000 Gifts which support graduate students are important as it relates to CUNY’s competitiveness. Gifts exceeding the minimum are highly favored.</td>
</tr>
<tr>
<td>President’s Academic Student Activity-Fund</td>
<td>$1M</td>
<td>$1M</td>
<td>$500,000</td>
<td>$1M Used only to provide an extra measure of excellence to the academic enterprise student experience or to leverage big ideas with firm roots in academic collaboration.</td>
</tr>
<tr>
<td>Deanship</td>
<td>$3M</td>
<td>$3M</td>
<td>$2M</td>
<td>$3M An endowed gift would allow a dean to meet special needs of or big, new ideas in their schools. To provide budget relief for a dean’s salary. For use as a salary supplement, the approval of the Chancellor is required.</td>
</tr>
<tr>
<td>Term Professorship****</td>
<td>$575,000</td>
<td>$575,000</td>
<td>$225,000</td>
<td>$575,000 A current use gift which provides, for a designated period of time, the equivalent of the income generated from an endowed gift.</td>
</tr>
<tr>
<td>Endowed Visiting Professorship*</td>
<td>$1M</td>
<td>$1M</td>
<td>$500,000</td>
<td>$1M Supports the needs of a visiting (local) scholar, which would include support for academic research.</td>
</tr>
<tr>
<td>Endowed Professorship</td>
<td>$2M</td>
<td>$1.5M</td>
<td>$1M</td>
<td>$2M Provides additional salary support as well as funds to supply research and fund scholarly activity.</td>
</tr>
</tbody>
</table>

These minimum gift amounts levels are intended for all relevant gift agreements. There may be limited instances when an exception to the guidelines may be appropriate. In such cases, the college president or professional school dean may appeal to the Chancellor. If the Chancellor supports the exception, he/she would recommend acceptance to the Board of Trustees. Special consideration will be given to those campuses with little or no tradition of private philanthropy, and exceptions to the guidelines will be considered where appropriate.

Gift agreements created to govern and provide administrative guidance for gifts may be payable over multiple years, preferred gift agreements are those which are fully executed in no more than five years. Special exceptions beyond the five-year mark can be made in very limited instances.