

Shagun Mehrotra

Assistant Professor, Milano School of
International Affairs, Management, and Urban
Policy, The New School, New York
www.shagunmehrotra.org

72 Fifth Avenue
New York, NY 10011
mehrotrs@newschool.edu

EDUCATION

PhD, Infrastructure Economics and Urban Planning, 2011
Columbia University, Graduate School of Arts and Sciences, New York
Dissertation: Reinventing Infrastructure Economics: Theory and Empirics

MPhil, Urban Planning, 2010
Columbia University, Graduate School of Arts and Sciences, New York

Master of International Affairs, 2006
Columbia University, School of International and Public Affairs (SIPA), New York

Master of Science, Urban Environmental Management, 2003
(1st rank) Asian Institute of Technology, Bangkok, Thailand

Diploma in Architecture (equivalent to Bachelors in Architecture), 2000
Center for Environmental Planning and Technology, CEPT University, Ahmadabad, India

RESEARCH AND TEACHING INTERESTS

Infrastructure Economics (Water, Transport, Energy), Climate Change, Global Urban Development, Slums

EXPERIENCE

The New School University, New York
Assistant Professor, Milano School of International Affairs, Management, and Urban Policy, 2011 – present

Developed two new graduate courses: Climate Change and Cities; Global Urban Environmental Policy—Infrastructure Economics: Equity with Efficiency.

Global Urban Futures: Faculty member of a school-wide specialization focused on solving 21st century global urban challenges.

National Science Foundation, Global Program Leadership Team for the Sustainability Research Network pre-proposal.

Adviser, Earth Institute, Vale Columbia Center

Co-Chair, Urban Climate Change Research Network

Columbia University, New York
Faculty Fellow, Graduate School of Arts and Sciences, Department of Urban Planning, 2006 – 2011

Co-taught courses: Urban Economics, Project Evaluation (Cost-Benefit Analysis, class

size of 58), Spring and Fall 2008–2009; Advanced Planning Theory, Comparative Urban Labor Markets, Spring 2008; History and Theory of Planning, Fall 2007, Spring 2010 (seminar, class size of 13).

**NASA Goddard Institute for Space Studies and Columbia University, New York
Managing Director, Climate and Cities, Center for Climate Systems Research
2009 – 2012**

Analytical Work

Managed multi-disciplinary international team of experts on climate risk assessment in Buenos Aires, Lagos, New York, and Delhi.

Co-editor and coordinating lead author for first global scientific assessment of the state-of-the-knowledge on Climate Change and Cities (ARC3), multidisciplinary team of 106 authors from 50 developing and developed country cities.

Global Program Management

Conceptualized and established the Climate and Cities program—a global four track policy advisory facility for city climate risk management (see www.uccrn.org) including program strategy, recruitment and professional development of staff, and research quality assurance. Initiated regional research collaboration in Buenos Aires, Lagos, Istanbul, and Delhi.

Lead negotiations and fostered partnerships with clients and donors—engaged with Mayors and city government leadership on climate change and infrastructure development—Abidjan, Buenos Aires, Copenhagen, Delhi, Gangneung, Lagos, Lima, London, Los Angeles, Mexico City, New York, Sao Paulo, Seoul, Sidney, and Toronto. Bilateral and multilateral organizations, including UNFCCC, UN-Habitat, Cities Alliance, World Bank, Inter-American Development Bank, Government of France, as well as non-profits and city networks—ICLEI, UCLG, and C40.

Represented program at high-level global policy forums—C40 Climate leadership Summit, Seoul; World Bank's Fifth Urban Research Symposium, Marseille; Mayors' Summit, COP15, Copenhagen; UN-Habitat's World Urban Forum 5, Rio; World Mayors' Council on Climate Change, Mexico City; 3rd UCLG World Congress of Local and Regional Government Leaders, Mexico City; C40 Climate leadership Summit, Sao Paulo; ICLEI Resilient Cities, Bonn; UNFCCC, Bonn.

Office of the Minister of Railways, Government of India New Delhi, and New York, 2007 – 2008

(May – September 2009, located fulltime in-house, Office of the Minister of Railways, New Delhi)

Conceived book project, developed theoretical rationale and methodology for field research, conducted over 40 field interviews ranging from the Minister of Railways to front-line workers and stakeholders, including major consumers; Independently developed book proposal, submitted and accepted by Oxford University Press.

*For research, participated in high-level policy meetings, document review of Ministerial policy notes, wrote the book *Bankruptcy to Billions*; edited and proof read the text including developing media plan, endorsements, and publication details.*

Book launched on February 21, 2009 at the Presidential Palace in New Delhi by the President of India and translated into two additional languages (Hindi and Marathi). English version published in paperback after fourth impression in hardcover.

Ryoichi Sasakawa Young Leaders' Fellow, Chengdu, China, Summer 2006

Consultant, Heifer International

Collaborated with local governments in six districts, Yunnan province, on enhancing rural livelihood through scientific rearing of cattle, infrastructure, and afforestation. Lead a team to develop monitoring and evaluation systems for assessing the impact of Heifer's programs on the poorest households.

World Bank Experience 2003 – 2005

Staff, World Bank, Infrastructure Vice-Presidency, Africa region, Water and Sanitation Program, Nairobi, Kenya, 2004 –2005

Developed the 'sub-network' and 'master-operator' solution for water utilities to expand supply to slums in Africa. Including, advising clients like the French Development Agency, and corporatized water utility on reaching the poor with a 6 million Euro investment in Kisumu, Kenya—resulted in 10,000 new water connections in Nyalenda slum, Kisumu. Assisting authorities in Dar es Salaam to create an incentive structure for community-led water supply as part of the US\$165 million Water and Sanitation Improvement Project, financed by the World Bank.

Led the development and launch of the domestic private sector initiative, a US\$12 million three-year global technical assistance program financed by DFID. It included creation of, and strategic advice to, *Maji Bora Kibera*, an association of over 500 small-scale water providers operating in the largest slum of Africa, Kibera, Nairobi, to enable it to become a credible partner of formal service providers and its replication in Africa, Asia, and Latin America through the global domestic private sector initiative.

Created the three track business model for 'Serving the Urban Poor' business—(1) National framework for water supply to the poor (in response to a Ministerial request for policy advice); (2) Innovating with reformed utilities for service expansion to the urban poor; (3) Institutionalizing domestic private sector service providers. Developed and implemented WSP's urban strategy for Africa—business plans for 2004 and 2005, and an internal evaluation of the program's impact in four African countries: Benin, Ethiopia, Kenya, and Uganda.

World Bank staff support, Tsunami relief and reconstruction, Asian Disaster Preparedness Center, Bangkok, January.

Team leader and principal researcher, World Bank and ProVention Consortium, applied research grantee, Bangkok, Thailand, 2003 –2004

Identified institutional innovation in earthquake risk reduction based on prior work in post-earthquake reconstruction in Porbandar, India.

Institutionalized risk reduction technology through local stakeholders, developed and implemented social marketing campaign.

Published findings in English and Gujarati, Government of Gujarat used manual for state-wide community-led risk reduction efforts.

Consultant, World Bank, Infrastructure Vice-Presidency, Africa region, Water and Sanitation Program, Nairobi, Kenya, 2003

Regulation of small-scale water providers in Kibera, reviewed literature, prepared regulatory models, and stakeholder consultations—workshops with domestic private water providers and slum residents.

Initiated the formation of an association of small-scale domestic private water providers.

Asian Institute of Technology, Bangkok, Thailand, 2002

Research Associate

Collaborated with Transport Development Research Institute on small vehicle urban public transport solutions for Ho Chi Min City, Ministry of Transportation, Government of Vietnam.

Engaged with Asian Disaster Preparedness Centre, Bangkok, preparing project proposals, including initiating partnerships with South Asian Association of Regional Co-operation.

Developed proposals for European Union's Asia-Link project, including role of illegal trade along the Mekong on decentralization, and regional university collaboration.

Provided editorial support to review technical reports on environmental management. Co-edited annual activity report for UN-Habitat's Urban Management Program.

Center for Environmental Planning and Technology, Ahmedabad, India, 1995 – 2001

Development Consultant

Led a team to develop participatory post-disaster reconstruction strategy in partnership with Government of Gujarat, Porbandar police department.

Classified morphological typologies of 40 Indian cities across scales—city, neighborhood, household—Dean's grant financed the teamwork.

Developed project proposals and collaborated with partners (government, private developers, and civil society groups) to manage and execute projects like: (1) Gandhi Institute for Sustainable Development for the Minister of Education, Government of Kerala, South India; (2) Micro-zoning for the Ganges river edge redevelopment and environmental management, Assi Ghat Banaras, North India; (3) Development of a master plan for World Heritage Site, Hampi, Karnataka, South India (4) Developing a prototype for low cost housing, four dwellings for a total of US \$1,600 on a plot of 20 x 40 feet in Indore, Madhya Pradesh, Central India. Built in 2001.

Urban Planner and Architect Enzo Somigli, Florence, Italy, 1998

Urban Specialist

Designed housing typologies for local economic development of an ancient industrial site on the periphery of Florence.

Analyzed urban development in north Italy (Florence, Milan, Venice, and Siena).

Assisted in a UNESCO world heritage conservation proposal, Bhagmati river, Nepal (some work done in India), subsequently UNESCO recognized site as World Heritage.

RESEARCH GRANTS AND HONORS (awarded 23 grants and honors)

| | |
|---|------|
| Provost Faculty Research Grant, The New School | 2011 |
| Dean's Research Grant (3 year), The New School | 2011 |
| Earth Institute grant for ICLEI Resilient Cities and UNFCCC, Bonn | 2011 |
| C40 Large Cities Climate Summit, Sao Paulo, invited scholar | 2011 |
| Cities Alliance, grant for completion of research and launch of book on Climate Change and Cities (ARC3), (Task team leader, and co-PI with Cynthia Rosenzweig) | 2010 |
| Graduate School of Arts and Sciences, Columbia University, research grant | 2010 |
| Taraknath Das Foundation, South Asia Institute travel research grant, | 2009 |

| | |
|--|-----------|
| Columbia University | |
| Climate change research fellowship, CCSR, Columbia University and NASA GISS | 2009 |
| Government of France and World Bank grant for commissioned research for the 5th Urban Research Symposium, Marseille | 2009 |
| Congratulatory note from the President of India for my book <i>Bankruptcy to Billions: How the Indian Railways Transformed</i> | 2009 |
| Congratulatory note from the Minister of Railways, Government of India for my research on Indian Railways | 2008 |
| Ryoichi Sasakawa Young Leaders' Fellowship, Weatherhead East Asian Institute, Columbia University (declined) | 2007 |
| Graduate School of Arts and Sciences, Columbia University, Faculty Fellowship | 2006–2011 |
| Ryoichi Sasakawa Young Leaders' Fellowship, Weatherhead East Asian Institute, Columbia University | 2006 |
| School of International and Public Affairs Fellowship, Columbia University, May (declined) | 2006 |
| World Bank spot award for “Displaying exceptional personal commitment to making a development impact in pro-poor urban work”, for my initiative in mobilizing 500 private water vendors in Africa’s largest slum to create an association of small-scale providers | 2005 |
| Grand prize, Capturing Reality: Water and Sanitation in the Developing World, Water and Sanitation Program’s Staff Photography Contest | 2004 |
| John A. Hrones prize for outstanding student in Urban Environmental Management, Asian Institute of Technology, Thailand | 2003 |
| World Bank grant, Urban Development for Economic Growth and Poverty Reduction, Urban Research Symposium, Washington | 2003 |
| ProVention Consortium and World Bank applied research grant for disaster risk reduction, awarded to 65 researchers from 27 countries, Geneva | 2003 |
| Fellowship for postgraduate studies in urban environmental management, Asian Institute of Technology, Thailand | 2002–2003 |
| United Nations Environment Program secondment for the inception of the South Asian Youth Environmental Network, Kathmandu, Nepal | 2002 |
| Sri Suryakant Patel prize for the first position in design studio I and II and award for the highest marks in class, at Institute of Environmental Design, Anand, India | 1995 |

PUBLICATIONS (2 books, 35 research papers, policy reports, grant proposals, and op-eds)

BOOKS

1. *Climate Change and Cities (ARC3)*, with C. Rosenzweig, W. Solecki, S. Hammer, Eds., London: **Cambridge University Press**, 2011. Forewords by (1) Mayor of New York City; (2) Chair, Intergovernmental Panel on Climate Change; (3) United Nations Under-Secretary General and Executive Director, UN-Habitat; (4) Director, The Earth Institute at Columbia University and Special Advisor to UN Secretary General Ban

Ki-Moon on the Millennium Development Goals.

2. *Bankruptcy to Billions: How the Indian Railways transformed*, with S. Kumar, New Delhi: **Oxford University Press**, 2009. Foreword by Prime Minister of India. English hardcover version in fourth impression and translated into two languages. Paperback edition published by OUP in July 2010, second impression in 2011. 2009

BOOK CHAPTERS

1. “Urban Transport and Climate Change”, Coordinating Lead Author, with Lefevre, B., & Zimmerman, R. and Lead Authors, H. Gercek, K. Jacob, S. Srinivasan, in C. Rosenzweig, W. Solecki, S. Hammer, and S. Mehrotra, Eds., *Climate Change and Cities (ARC3)*, London: **Cambridge University Press**, 2011. 2011
2. “Climate Risk, Disasters, and Cities”, Coordinating Lead Author, with W. Solecki, & C. Rosenzweig, and Lead Authors, C. E. Natenzon, A. Omojola, R. Folorunsho, J. Gilbride in C. Rosenzweig, W. Solecki, S. Hammer, and S. Mehrotra (Eds.). *Climate Change and Cities (ARC3)*, London: **Cambridge University Press**, 2011. 2011
3. “Urban Climate Change in Context”, Author, with C. Rosenzweig, W. Solecki, S. Hammer in C. Rosenzweig, W. Solecki, S. Hammer, and S. Mehrotra (Eds.). *Climate Change and Cities (ARC3)*, London: **Cambridge University Press**, 2011. 2011

PEER-REVIEWED ARTICLES

4. Cities Lead The Way In Climate-Change Action. London: **Nature**, Vol. 467, 21 October (with C. Rosenzweig, W. Solecki, & S. Hammer). 2010
5. Lead author, *Framework for City Climate Risk Assessment, Buenos Aires, Delhi, Lagos, and New York*, Commissioned Research, **World Bank**, Washington, DC (with C. E. Natenzon, A. Omojola, R. Folorunsho, J. Gilbride, & C. Rosenzweig). 2009
6. Lead author, *Rogues No More? Water Kiosk Operators Achieve Credibility in Kibera. Water and Sanitation Program*, Nairobi: **World Bank**, (with C. Brocklehurst, & A. Morel). 2005

IN PROGRESS

7. Adapting to Climate Change in Cities (with Rosenzweig et al), in J. Palutikof, M. Parry, A. Ash, M. Stafford Smith, M. Waschka and S. Boulter, (Eds.). *Climate Adaptation Futures*, **Wiley Pty Ltd**. Proceedings of The National Climate Change Adaptation Research Facility (NCCARF), Government of Australia.

RESEARCH PAPERS

8. *Radical Incrementalism? Reforming the Indian Railways*. Working paper. New York: Columbia University. 2008
9. *Infrastructure Economics, a Literature Review*. Working paper. New York: Columbia University. 2007
10. *Deepening Indian power Sector Reforms: Is Cherry Picking an Option*. Working paper. New York: Columbia University. 2006
11. *Just City in an Unjust World?* Working paper. New York: Columbia 2006

- University.
12. *Power to the Poor: Can Slum Franchise in Delhi Reduce Electricity Distribution Loses?* Working paper. New York: Columbia University. 2006
 13. *Supporting the market that serves the urban poor: Emerging responses to enhance the role of local private sector providers*, Background paper for the Domestic Private Sector Participation Initiative Workshop. Water and Sanitation Program, World Bank, Nairobi, June, (with J. Plummer, & B. Collignon). 2005
 14. *Regulating Small-Scale Providers in Kibera*, (with A. Morel), in Harvey, P. eds., *Towards the Millennium Development Goals: Proceedings of the 29th Water, Engineering and Development Centre Conference*, Loughborough University, United Kingdom, December. 2003
 15. *Constraints in Implementing Urban Development Policy in India from the Perspective of International Development Professionals: Study of Sustainable Cities Program in Chennai*, Master's thesis, Asian Institute of Technology, Thailand. 2003
 16. *Innovative Public-Private Partnership: User Contributions for Roads in Indore, India*. Web publication, Privatization, November, Development Gateway. 2002
 17. *Making Centers and Boundaries in Indian Urban Space: A Study of Ahmedabad, India*, Thesis, School of Architecture, Centre for Environmental Planning and Technology, India. 2001
 18. *Mythology and the Archetype*, *Architecture+Design*, Vol. XVIII, No 3, India. 2001

POLICY REPORTS, GRANT PROPOSALS, OP-EDS

-
19. *Cities Can Lead Nations*, Copenhagen, State of the Planet, Op-Ed, Earth Institute, Columbia University (with C. Rosenzweig, & S. Hammer). 2009
 20. *Cities Are Moving Ahead*, Copenhagen, State of the Planet, Op-Ed, Earth Institute, Columbia University (with S. Hammer, & C. Rosenzweig). 2009
 21. *First Urban Climate Change Research Network (UCCRN) Assessment Report on Climate Change in Cities (ARC3)*, Cities Alliance proposal, World Bank, Washington DC. 2009
 22. *Gangneung Super-Low-Carbon City Project*, Memo to Mayor of Gangneung, South Korea, June 5. 2009
 23. *Climate and Cities: Crafting a Global Institutional Structure for Risk Assessment and Adaptation Planning*, White Paper to World Bank Management, NASA GISS and Columbia University, April 13. 2009
 24. *Mayors' IPCC: International Panel on Climate Change in Cities (IPC3) First Assessment Report*, White Paper to World Bank Management, NASA GISS and Columbia University, April 13. 2009
 25. *Global Framework for Climate and Cities*, The Earth Institute, Columbia University, Cross-Cutting Initiative, seed grant proposal April 30. 2009
 26. *Delhi: Brief Inventory of Climate Change Initiatives*, Center for Climate Systems Research, Earth Institute, Columbia University, New York. 2008
 27. *Creating Risk-Based Climate Change Information for Urban Areas*, Urban Research Symposium, Commissioned Research Proposal, World Bank Washington DC (with C. Rosenzweig, C. E. Natenzon, & R. Folorunsho). 2008

28. *Institutionalizing Local Knowledge for Risk Reduction in Earthquake Prone Settlements of the Poor*, Young Researcher's Project Brief, Geneva: ProVention Consortium. 2007
29. *Where Big Meets Small*, Access, December, Water and Sanitation Program. Washington DC: World Bank. 2004
30. *Water vendors to become sub-network operators in Kisumu, Kenya*, Access, December, Water and Sanitation Program. Washington DC: World Bank. 2004
31. *Institutionalizing local knowledge for risk reduction in earthquake prone settlements of the poor, Porbandar district, Gujarat, India*, manual published in Gujarati and English, www.urbangovernance.org, used by the Government of Gujarat for state-wide knowledge sharing in high-risk rural settlements. 2003
32. *Regulating Small-Scale Providers for Water Case Study in Kibera, Nairobi*. An Interim Report, Water and Sanitation Program. Nairobi: World Bank. 2003
33. *Footprints: A comparative study of 40 Indian cities*, Monograph, India: School of Planning, Center for Environmental Planning and Technology, December (A. Bhosle, D. Deshpandy, U. Sharma, & J. Sundaresan). 2001
34. *Strategy for Post-Earthquake Rehabilitation*. Zindagi Samchar (Sindhi Newspaper), May, Gujarat, India (with N. Chatwani). 2001
35. *Rebuilding homes, rehabilitation strategy for five villages*, report to the Government of Gujarat, Porbandar district, India, May, (with N. Chatwani). 2001
36. *Study of urban space in north Italian towns*, Three volume travelogue, Italy. 1998

MEDIA CITATIONS OF RESEARCH, INTERVIEWS, & BOOK ENDORSEMENTS

Media citation for ARC3 (Climate Change and Cities Book)

Københavns Kommune (City of Copenhagen); Center for Energy, Marine Transportation and Public Policy, Columbia University; COP15, Copenhagen; ARUP (Private Consulting Firm); University of Copenhagen; Danish Development Research Network; Earth Institute, Columbia University; Urban Climate Change Research Network; *Munhwa*, May 20, (Korean newspaper); ICLEI Resilient Cities, Bonn; National Climate Change Adaptation Research Facility (NCCARF), Queensland; *Nature*, the Science and the City issue of October 21, 2010; ARC3 featured in *Scientific American*, (September, 2011).

Media Interviews for ARC3 (Climate Change and Cities Book)

Nature, for the Science and the City issue of October 21, 2010; Copenhagen Video Interview with Edie Lush (Hub Culture); Indian National Newspaper, Dainik Bhaskar; NBC's African-American news website, *The Grio*; CNN; Mexican National Television, *Canal 22*; NPR's WNYC, April 1, 2011; interviews with *Valor Econômico* (Brazilian Business newspaper); *Reuters Thompson*, London; *Earthsky*; German National Public Radio.

Book endorsements

ARC3 (Climate Change and Cities), endorsed by (1) Mayor of Mexico City; (2) Mayor of São Paulo; (3) Governor of Lagos State; (4) Senator, Indonesia; (5) Mayor of Toronto; (6) Executive Director, ICLEI Local Governments for Sustainability.

Media citation for Bankruptcy to Billions (Infrastructure Reform Book)

The American, 13 February; *Business India*, 22 March; *Business Line*, 13 March; *Business Standard*, 23 February and 13 March; *Economic Times*, 24 February; *Down to*

Earth, 15 March; *The Hindu*, 22 February; *Hindustan Times*, 21 February; *Indian Express*, 22 February; *India Today*, 9 March; *Locksatta*, 24 February; *Oxford Book News*, Economics section, April; *SIPA NEWS*, Columbia University, May.

Book endorsements

Bankruptcy to Billions was endorsed by (1) *Montek Singh Ahluwalia*, Deputy Chairman, Planning Commission, Government of India; (2) *Jagdish Bhagwati*, University Professor, Economics and Law, Columbia University; (3) *N.R. Narayana Murthy*, Chairman of the Board and Chief Mentor, Infosys Technologies Limited; (4) *R.K. Pachauri*, Director-General, The Energy and Resources Institute and Chair, Intergovernmental Panel on Climate Change; (5) *C.K. Prahalad*, Paul and Ruth McCracken Distinguished University Professor, Ross School of Business, University of Michigan.

PRESENTATIONS AND WORKSHOPS (speaker at over 80 forums over the last decade)

-
- | | |
|---|------|
| 1. Panelist and co-organizer, New York book launch, Climate Change and Cities, The New School, New York. | 2011 |
| 2. Invited lecture, graduate course on infrastructure and energy policy, Columbia University, New York. | 2011 |
| 3. Speaker, Association of Collegiate Schools of Planning, 52nd Annual Conference, Salt Lake City (unable to attend). | 2011 |
| 4. Discussant, The United Nation's World Economic and Social Survey 2011, <i>The Great Green Transformation</i> , Development Thought and Policy Seminar, The New School, New York. | 2011 |
| 5. Invited faculty, presentation of research to Board of Governors, The New School for Public Engagement, New York. | 2011 |
| 6. Journal of Planning Education and Research, Editor's Workshop for New Scholars, Tufts University, Medford. | 2011 |
| 7. Discussant, Community Infrastructure Finance Facility, UN-Habitat, and Earth Institute, Columbia University, New York. | 2011 |
| 8. Chair, Reality Check Workshops on Lagos state government's climate change response, <i>ICLEI Resilient Cities</i> , Local Governments for Sustainability, Bonn. | 2011 |
| 9. Speaker, book launch with Mayor of Mexico City and Executive Director of UN-Habitat, <i>ICLEI Resilient Cities</i> , Bonn. | 2011 |
| 10. Organizer, joint technical discussion on UN-Habitat's Global Report and ARC3, focused on climate change and cities, <i>ICLEI Resilient Cities</i> , Bonn. | 2011 |
| 11. Observer, UNFCCC, Climate Change Conference, Bonn. | 2011 |
| 12. Policy dialogue on state legislature to combat climate change, Sao Paulo State Ministry of Environment, Sao Paulo. | 2011 |
| 13. Speaker, <i>Education for Sustainable Development, C40 Large Cities Summit</i> , Sao Paulo. | 2011 |
| 14. Lecture, <i>Investing in African Urban Infrastructure</i> , high-level investor forum for scaling-up investments in Africa, Earth Institute, Columbia University, New York. | 2011 |
| 15. Lecture, <i>Reinventing Infrastructure Economics: Theory and Practice</i> , | 2011 |

- Virginia Commonwealth University, Richmond.
16. Lecture, *Reinventing Infrastructure Economics: Theory and Empirics*, Rutgers University, New Brunswick. 2011
 17. Lecture, *Climate Change and Cities*, The New School, New York. 2011
 18. Discussant, Experts Roundtable on Climate Change and Cities, *A Multi-Hazard City Risk Index*, Infrastructure Sector Unit (EASIN), East Asia and Pacific Region, The World Bank, Washington DC. 2011
 19. Lecture, *Reinventing Infrastructure Economics: Theory and Practice*, Cornell University, Ithaca. 2011
 20. Invited Scholar, *World Mayors Summit on Climate Change*, Mexico City. Invited by Mexico City Mayor, pre-COP16, Mexico. 2010
 21. Delegate, *3rd World Congress of United Cities and Local Governments*, Mexico City. Over 2000 local and regional leaders participated. 2010
 22. Organizer and panelist, *Climate Change and Cities: Knowledge for Action*, book talk at Tecnológico de Monterrey, Mexico City. 2010
 23. Guest speaker, *Global Commonwealth: Responding to Climate Change in Cities*, talk to over 1,000 high-school students, The Daly College, Indore, India. 2010
 24. Session convener, *International Climate Change Adaptation Conference*, National Climate Change Adaptation Research Facility (NCCARF), Queensland, Australia, July (represented by team member). 2010
 25. Invited speaker, ICLEI Resilient Cities, Bonn, Germany, May (represented by team member). 2010
 26. Invited lecture, *Creating State-of-the-knowledge for climate change and cities*, book talk, Agriculture and Urban Land Use, April, Barnard College, Columbia University, New York. 2010
 27. Invited lecture, *Global Public Goods—Economic Development for a Changing Planet*, Multidisciplinary Approaches to Development, February, School of International and Public Affairs, Columbia University, New York. Other guest speakers include prominent development scholars Joseph Stiglitz and Jose Antonio Ocampo. 2010
 28. Invited lecture, *Reinventing Infrastructure Reforms*, Multidisciplinary Approaches to Development, February, Columbia University, New York. This is a foundational course in the NSF-funded IGERT International Development and Globalization PhD program. 2010
 29. Invited lecture, *Global Commons: Planning for a Changing Planet*, Department of Planning, February, Columbia University, New York. 2010
 30. Invited speaker, *The Right to the City: Bridging The Urban Divide*, University Round Table, Rio de Janeiro, Brazil, March 22–26. 2010
 31. Invited speaker, Climate Change and Cities session, *UN-Habitat World Urban Forum*, Rio de Janeiro, Brazil, March 22–26. 2010
 32. Invited lecture, ARC3 Summary for Researchers, and panel discussant: ARC3 and Brazilian Cities, Universidade Federal do Rio de Janeiro, Rio de Janeiro, Brazil, March 24. 2010
 33. Invited by United Nations Under-Secretary-General for Humanitarian Affairs and Emergency Relief Coordinator, United Nations for inputs on *Climate Change and Extreme Events, and Disasters: The Science and Economics*, February 10, New York. 2010

34. Invited scholar, *Sustainable Development Network Forum 2010, Act Now, Act Together, Act Differently—Going Forward on Climate Action*, January 19–21, World Bank, Washington DC. 2010
35. Environment Secretary, Mexico City, high-level meeting to discuss inclusion of climate risk assessment into public expenditure. 2010
36. Panelist, Mayors’ Summit, University of Copenhagen, (with ARC3 co-editors and Mayors of Melbourne, Copenhagen, Vancouver). Invited by Copenhagen Mayor, COP15, Denmark, December. 2009
37. Opening plenary speaker, *Fifth Urban Research Symposium, Cities and Climate Change: Responding to an Urgent Agenda*, World Bank, Marseille, France, June. Commissioned researcher, invited by the Government of France and World Bank to address over 600 researchers from 80 countries. 2009
38. Invited researcher, *A Dialogue on Cities and Climate Change*, September 21–23, World Bank, Washington DC. 2009
39. Office of the Mayor, Lima Peru, high-level meeting to discuss inclusion of climate risk assessment into infrastructure investments. 2009
40. Speaker, Post-Copenhagen: Global Institutional Structure for Climate and Cities in Africa, Asia, and Latin America, 2nd “Mayors’ IPCC” Symposium, Marseille, June. 2009
41. Moderator, Open Debate: Cities in IPCC and Cities’ IPCC, 2nd “Mayors’ IPCC” Symposium, Marseille, June. 2009
42. Strategy presentation to senior management, *Climate and Cities: Implications for CDS and Pro-poor City Programs*, Cities Alliance Secretariat, World Bank, Washington DC, April. 2009
43. High-level Gangneung Mayoral delegation to—three site visits for a feasibility assessment for Low-Carbon-City—subsequently project approved by Government of Korea, Gangneung City. 2009
44. Head of delegation, Demilitarized Zone (DMZ) field-visit for pre-feasibility assessment, Gangneung, Korea. 2009
45. Invited delegate, (one of three researchers), Third C40 Large Cities Climate Summit, Seoul. 2009
46. Speaker, *Responding to Climate Change in Lagos and Delhi*, First “Mayors’ IPCC” Symposium, Seoul. 2009
47. Speaker, *Pre and Post-Copenhagen: Global Institutional Structure for Climate and Cities*, First “Mayors’ IPCC” Symposium, Seoul. 2009
48. Strategy presentation to senior management, *Programmatic approach to climate and cities*, Cities Alliance and World Bank, Washington DC, March 5. 2009
49. Invited speaker and workshop participant, *Preliminary Framework for Urban Climate Risk Assessment*, Fifth Urban Research Symposium, sponsored research scientific committee review workshop, World Bank, Washington DC. 2009
50. Invited lecture, *Crafting global institutional structure for climate change*, School of International and Public Affairs, Columbia University, New York, March 19. 2009
51. Coordinator and speaker, Transport working group, ARC3 inception workshop, School of International and Public Affairs, Columbia University, New York, November. 2008

52. Convened High-level meeting with Y V Reddy, Governor Reserve Bank of India, and development researchers at Columbia University. 2008
53. Participant, *Measuring Development Effectiveness: Progress and Constraints*, Independent Evaluations Group, World Bank, Washington, D.C, Thursday, April 10. 2008
54. Lecture, *Achieving the Millennium Development Goals: Stakeholders, Reform, and the Poor*, Roberto Lenton's class on Water policy, School of International and Public Affairs, Columbia University, New York, March 10. 2008
55. Lecture, *Infrastructure Economics and Development*, Tecnológico de Monterrey, Mexico City, November 5. 2007
56. Lecture, *Bankruptcy to Billions: How the Indian Railways transformed in three years?* Lectures in Planning, Columbia University, New York, October 16. 2007
57. Speaker, Gates Foundation, *How reformed water utilities in Africa improve service to the urban poor*, Seattle, June 11. 2007
58. Participant, Third Biennial Ph.D. Colloquium, University of British Columbia, Vancouver, Canada, June 4–10. 2007
59. Participant, Evaluating Social Programs, Abdul Latif Jameel Poverty Action Lab, MIT, Cambridge, May 29 – June 2. 2007
60. Co-convenor, *Lectures in Planning*, Urban Planning, Columbia University, New York, Spring and Fall. 2007
61. Participant, Third Annual Symposium on Development and Globalization, Columbia University, New York, November 2–3. 2006
62. Speaker, *Africa: Infrastructure Solutions for the Urban Poor*, Young Development Practitioner's Forum, Chengdu, China, July. 2006
63. Participant, Annual Symposium on Development and Globalization, Columbia University, November 11-12. 2005
64. Participant, Conference on reforming the United Nations, Columbia University, New York, October. 2005
65. Speaker, Co-organizer, *Unlocking the Potential of the Domestic Private Sector in the Delivery of Water and Sanitation Services to the Poor*, Global Practitioners' Workshop, Nairobi, June. 2005
66. Participant, Twentieth session of the governing council of United Nations Human Settlements Program, Nairobi, April. 2005
67. Participant, Seminar on consumer voice and citizen report cards in Africa, Water and Sanitation Program and Water Aid, Nairobi, March. 2005
68. Participant, Cities: Grounding the Development Agenda, Urban Forum, World Bank, Washington DC, March. 2005
69. Client Presentation, (Dar es Salaam Water and Sewerage Authority), East Africa: How utility reforms work for the poor, Water Security: Policies and Investments, Water Week, World Bank, Washington DC, March. 2005
70. Water Week, World Bank, Washington DC New (meetings with sector managers, Bank new staff orientation, WSP learning events (courses on negotiations, procurement), March. 2005
71. Urban Week, World Bank, Washington DC. 2005
72. Speaker, Understanding the role of small-scale sanitation providers in Kibera, Nairobi, Kenya, February. 2005
73. Participant, National Geographic photography workshop in Santa Fe, New 2004

- Mexico, August.
74. Participant, Millennium development goals in Kenya, high level consultative group meeting, Nairobi, November. 2004
 75. Speaker, Making utility reform work for the urban poor in Kisumu, Kenya, July. 2004
 76. Speaker, Regulating small-scale water providers in Kibera, Brown Bag Lunch, World Bank, Washington, August. 2004
 77. Participant, Developing Business and Infrastructure in Africa, international conference, Financial Times and International Financial Corporation, Nairobi, May. 2004
 78. Participant, Public expenditure analysis and management, core course, Poverty Reduction and Economic Management, World Bank, Washington DC, January. 2004
 79. Speaker, *Kisima* lecture series, Water and Sanitation Program, World Bank, Nairobi, April. 2003
 80. Moderator, 600 participants at the World Environment Day symposium partnering with International Union for Conservation of Nature (IUCN), World Wide Fund for Nature (WWF), United Nations Environment Program, Asian Development Bank, and the Global Water Partnership, Asian Institute of Technology, Bangkok. 2002 & 2003
 81. Led a twenty-member student delegation to the 4th Asian Mayors Forum, United Nations Economic and Social Commission for Asia and the Pacific, Bangkok. 2002
 82. Organizer, International Women's Day campaign, Asian Institute of Technology, Bangkok. 2002

LANGUAGES

Fluent in English, Hindi, Urdu, Gujarati (basic); Spanish (learning)

REVIEWER

Oxford University Press, Academic Division, (2 book proposals)
 Gates Foundation Grant Proposals, 2007 – present
 The Energy Resource Institute, (TERI)
 UN-Habitat, Global Report for Human Settlements, (declined)
 National Climate Change Adaptation Research Facility, Australian Government, 2010
 Development Marketplace Global Competition, offering US\$4 million in awards for local projects on Innovations in Water, Sanitation and Energy Services for Poor People, World Bank, Washington DC, 2005

PROFESSIONAL MEMBERSHIPS

American Collegiate Schools of Planning
 American Planning Association
 Urban Climate Change Research Network
 New York Academy of Sciences
 American Economic Association
 International Society for New Institutional Economics

COUNTRY AND REGIONAL EXPERIENCE

Countries: Brazil, Canada, China, Denmark, France, India, Italy, Kenya, Korea, Mexico, Nepal, Peru, Singapore, Tanzania, Thailand, UAE, Uganda, United States, and Vietnam
Regions: East Africa, Latin America, Southeast and East Asia, and South Asia