

RAMA MOHANA R. TURAGA

Research Associate
Thayer School of Engineering
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EDUCATION

- Aug 2007 **Georgia Institute of Technology, Atlanta, GA**
Doctor of Philosophy in Public Policy (*Major: Environmental Policy; Minor: Econometrics*)
Dissertation: Spatial Resolution, Costs, and Equity in Air Toxics Regulation
Committee: Ann Bostrom, Chair; Douglas Noonan, Co-Chair; Michael Chang; Armistead Russell; and Marilyn Brown
- Jan 1995 **Indian Institute of Technology, Kharagpur, India**
Master of Technology in Environmental Engineering (GPA: 9.0/10.0)
- Jul 1993 **Andhra University, India**
Bachelor of Engineering in Civil Engineering (Class Rank: 5/225)

AWARDS AND HONORS

- 2006-2007 Dean's Fellowship for Dissertation Support, Ivan Allen College and School of Public Policy, Georgia Institute of Technology
- 2006 Student Travel Award, Society for Risk Analysis
- 2006 Air and Waste Management Association (Georgia Chapter) Research Scholarship
- 2003 Advised special Indian government commission on Indian R&D's economic and social impact
- 1998 Kancharaddy Memorial Award for best paper, Journal of Indian Water Works Association
- 1993-1995 Indian Institutes of Technology Graduate Aptitude Test in Engineering Scholarship (Top 2% in Civil Engineering in India)
- 1992 Outstanding academic performance recognized by nomination to Andhra University's Academic Senate

PUBLICATIONS

Published Papers

- 2007 Baden, B., Noonan, D., & Turaga, R.M.R. (2007). Scales of Justice: Is there a Geographic Bias in Environmental Equity Analysis? *Journal of Environmental Planning and Management*, 50(2), 163-185
- 2006 1. Bostrom, A., Barke, R., Turaga, R.M.R., & O'Connor, R. (2006). Environmental Concerns and the 'New Environmental Paradigm' in Bulgaria *Journal of Environmental Education*, 37(3), 25-40

2. Bostrom, A., Turaga, R.M.R., & Ponomariov, B. (2006). Earthquake Mitigation Decisions and Consequences. *Earthquake Spectra*, 22(2), 313-328
- 2005 Turaga, R.M.R. & Bozeman, B. (2005). Red Tape and Public Organizations' Decision Making. *American Review of Public Administration*, 35(4), 363-379
- 2004 Turaga, U.T. & Turaga, R.M. (2004). Science Policy for India: A Memo to the Indian Council of Scientific and Industrial Research. *Philosophy Today*, 48(5), 109-115
- 1998 D. Nagesh Kumar, T. Rama Mohana Rao, & M. Bandyopadhyay. (1998). Optimal Design of Water Distribution System using Linear Programming Gradient (LPG) Method. *Journal of Indian Water Works Association*, Vol. XXX, 79-87

Working Papers

- 2008 1. "Superfund, Hedonics, and the Scales of Environmental Justice" with Douglas Noonan and Brett Baden. Revise and resubmit: *Public Administration Review*
2. "Trade-offs in Regulating Air Toxics Hot Spots" with Douglas Noonan and Ann Bostrom. To be submitted to the *Journal of Environmental Economics and Management*

RESEARCH EXPERIENCE

Feb 2008 – Present **Research Associate B, The Thayer School of Engineering, Dartmouth College, Hanover, NH**

Project: Promoting Sustainable Pollutant Control Policies through Consideration of Social and Biological Indicators: An Application to Mercury Control in New England

- Developing sustainable environmental indicators in the context of mercury pollution from power plants
- Modeling mercury pollution under different policy scenarios

May 2007 – Jan 2008 **Postdoctoral Fellow, School of Public Policy, Georgia Institute of Technology, Atlanta, GA**

Project: Risk Analysis and Perception in Earthquake Decision Making, Social and Economic Sciences Component of Mid America Earthquake Center
Sponsor: National Science Foundation

- Supervised four graduate students on the project
- Analyzed survey data and contributed to one peer-reviewed paper

Aug 2001 – May 2007 **Graduate Research Assistant, School of Public Policy, Georgia Institute of Technology, Atlanta, GA**

Project : Partnership for Environmental Research and Community Health
Sponsor: US Environmental Protection Agency Region 4

- Lead graduate student on a multi-disciplinary team comprising schools of public policy, civil and environmental engineering, and earth and atmospheric sciences

- Successfully implemented, for the first time in US EPA Region 4, a multi-source, multi-pollutant integrated risk assessment tool, the Regional Air Impact Modeling Initiative (RAIMI), for assessing air toxics risks
- Analyzed risks from various air pollutants in Pensacola, FL in a comparative risk framework to identify research priorities; study resulted in further funding to conduct air quality studies in Pensacola
- Prepared status- and project reports and presented results to US EPA and external stakeholders

Project: Mid-America Earthquake Center

Sponsor: National Science Foundation

- Evaluated utility of framework developed by Mid America Earthquake Center to determine acceptable consequences in earthquake mitigation decision making

Project: Environmental and Economic Risk Tradeoffs in a Transitional Country

Sponsor: National Science Foundation

- Analyzed data collected from two surveys conducted in Bulgaria
- Developed and co-authored a peer-reviewed paper

May 1994 – **Research Assistant, Civil Engineering Department, Indian Institute of**
Dec 1994 **Technology, Kharagpur, India**

- Developed optimal cost design of water distribution system for Masters Thesis

TEACHING EXPERIENCE

School of Public Policy, Georgia Institute of Technology, Atlanta, GA

Fall 2006 Guest Lecturer, Statistical Analysis for Public Policy (12 undergraduate students)

Fall 2005

- Instructor, Math Refresher course (5 policy Ph.D. students)
- Graduate Teaching Assistant, Microeconomics course (10 policy Ph.D. students)

Fall 2001 Teaching Assistant, Statistical Analysis for Public Policy (20 undergraduate policy students)

Department of Civil Engineering, Indian Institute of Technology, India

1994 Teaching Assistant, Engineering Mechanics (40 undergraduate students)

CONSULTING EXPERIENCE

Dec 1995 – **Environmental Management Consultant, Tata Consultancy Services, India**
Aug 2001 **(Asia's largest consulting firm)**

- Analyzed industrial pollution in the western Indian state of Gujarat and proposed policy solutions. Interacted with stakeholders including 10 NGOs, 3 state agencies, and 5 industrial associations on a \$50K World Bank project.
- Led 5 (and participated in another 3) environmental impact assessment (EIA) projects related to infrastructure, oil pipelines, and large power plants. Wrote 5 comprehensive EIA reports.

- Developed environmental indicators as part of World Bank-funded project on capacity-building for environmental management in Gujarat, India.
- Developed a database of hazardous waste generating industries in India's 4 most-industrialized states; assessed applicability of various hazardous waste management technologies. Project funded by the World Bank.

PROFESSIONAL PRESENTATIONS

- Dec 2007 "Spatial Resolution and Equity in Risk-based Regulation." Presented at the Annual Meeting of the Society for Risk Analysis, San Antonio, TX, 9-12 Dec 2007
- Nov 2007 "Spatial Resolution, Costs, and Equity in Air Toxics Regulation." Poster presented at the Twenty-Ninth Annual APPAM Research Conference, Washington, D.C., 8-10 Nov 2007
- Dec 2006 "Spatial Resolution in Air Toxics Regulation." Presented at the Annual Meeting of the Society for Risk Analysis, Baltimore, MD, 3-6 Dec 2006
- Jul 2006 "Superfund, Hedonics, and the Scales of Environmental Justice." Co-authored (with Douglas Noonan and Brett Baden) the paper presented by Noonan at the 3rd World Congress of Environmental and Resource Economists, Tokyo, Japan, 3-7 Jul 2006
- Jan 2006 "The Partnership for Environmental Research and Community Health (PERCH) Phase III, Part 1: Community-scale risk assessment in greater Pensacola, Florida." 14th Joint Conference on the Applications of Air Pollution Meteorology with the Air and Waste Management Assoc., The 86th Annual Meeting of the American Meteorological Society, Atlanta, GA, 28 Jan – 3 Feb 2006
- Nov 2004 "Spatial Decay of Urban Disamenities and Environmental Justice." Co-authored (with Brett Baden and Douglas Noonan) the paper presented by Noonan at Southern Economic Association 2004 Annual Meeting, New Orleans, LA, 21-23 Nov 2004
- Oct 2004 "Assessment Endpoints and Comparative Risk Analysis: The Case of Air Pollution." Presented at the Twenty-Sixth Annual APPAM Research Conference, Atlanta, GA, 28-30 Oct 2004
- Aug 2004 "Acceptable Consequences in Earthquake Engineering Decisions." Poster presented at the 13th World Congress on Earthquake Engineering, Vancouver, Canada, 1-6 Aug 2004
- Jul 2003 "Environmental Risk Perceptions in Bulgaria." Presented at the Meeting of Science & Technology Policy Programs, Washington, D.C., Jul 2003

PROFESSIONAL AFFILIATION

Association for Public Policy Analysis and Management
Society for Risk Analysis
American Society for Public Administration
Air & Waste Management Association