

SHALINI P. VAJJHALA

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EDUCATION

- Ph.D. in Engineering & Public Policy, Carnegie Mellon University, July 2005.
 - Dissertation Title: “Mapping Alternatives: Facilitating Citizen Participation in Development Planning and Environmental Decision Making.”
 - Graduate research assistantships from the Center for the Integrated Study of the Human Dimensions of Global Change and the Carnegie Mellon Electricity Industry Center
 - Visiting Scholar, University of Amsterdam, August 2003 – December 2003
- M.S. in Engineering & Public Policy, Carnegie Mellon University, August 2001.
 - Thesis/Project: “Risk Communication in Resettlement Planning: Applications of Participatory Mapping and Geographic Information Systems.”
- B. Arch in Architecture with University Honors, Carnegie Mellon University, May 2001.
 - Cities in the 21st Century, International Honors Program. Study abroad program in megacities Cairo, Egypt; Mumbai, India; and Rio de Janeiro, Brazil, Spring 2000.
 - Carnegie Mellon School of Architecture Studio. Rome, Italy, Summer 1998.

PROFESSIONAL EXPERIENCE

Fellow: Resources for the Future, September 2005-present

Research focus on novel applications of mapping and spatial analysis tools and methods to evaluate policy issues with significant public participation components, such as siting major energy facilities, enforcing environmental justice, managing carbon sequestration, facilitating community-based resource management, and adapting to climate change.

Consultant: World Bank, November 2004-June 2005

Member of a World Bank team conducting a field project in Lesotho, southern Africa with rural villages and the Ministry of Public Works and Transport to identify gender differences in mobility and access patterns, and evaluate opportunities for participatory planning, monitoring and assessment of transport infrastructure and service-delivery using a combination of hand-drawn mapping and GIS.

Community Organizer: Find the Rivers! Taskforce, July 2002- May 2003

Part of a sustainable planning initiative to reconnect low-income Pittsburgh neighborhoods with urban riverfronts and engage local residents in natural resource awareness and management efforts.

Project Manager: Community Partners Institute, August 2001- June 2002

Visiting Artist: FLUX- Community Artistic Expression, June 2002

Designed a program of community mapping workshops to collect maps from neighborhood residents of Wilkinsburg, PA and integrate them with city-planning maps in a sustainable neighborhood development initiative and local FLUX (community art) gallery exhibit.

Intern Architect: Loysen + Associates Architects, May 1999- August 2001

Worked as a project design-team member; developed construction documents and presentations; built physical and CAD models; and coordinated projects with clients, consultants, and community groups.

Architect's Assistant: Kingsland, Scott, Bauer and Associates Architects, May 1997 – August 1997

Developed construction documents, presentations, and models during a 12-week summer internship.

PEER-REVIEWED PUBLICATIONS AND WORKING PAPERS

Blonz, J.A., **Vajjhala, S.P.** and E. Safirova, 2008. Growing Complexities: A Cross-Sector Review of U.S. Biofuels Policies and Their Interactions. RFF Discussion Paper 08-47. December 2008.

Vajjhala, S. P., Van Epps, A. and S. Szambelan, 2008. Integrating EJ into Federal Policies and Programs: Examining the Role of Regulatory Impact Analyses and Environmental Impact Statements. RFF Discussion Paper 08-45. October 2008.

Vajjhala, S. P., Mische John, A. and D.A. Evans, (under review). Determining the Extent of Market and Resource for Stated Preference Survey Design using Mapping Methods. *Land Economics*. (related RFF Discussion Paper 08-14)

Bandza, A.J. and **S.P. Vajjhala**, (under review). Long-Term Risks and Short-Term Regulations: Modeling the Transition from Enhanced Oil Recovery to Geologic Carbon Sequestration. *Risk Analysis*. (related RFF Discussion Paper 08-29)

Vajjhala, S.P., Paul, A., Sweeney, R. and K.L. Palmer, (under revision). Linking Transmission Grid Expansion and Renewable Electricity Policies. *Energy Journal*. (related RFF Discussion Paper 08-06)

Vajjhala, S.P. (under review). Public Participation and Spatial Information. In J. Schneiderman and M. Bjornerud (eds.), *Science and Social Justice*. MIT Press.

Vajjhala, S. P. (forthcoming). Building Community Capacity? Mapping the Scope and Impacts of the EPA Environmental Justice Small Grants Program. *Research in Social Problems and Public Policy*. Volume 10. (related RFF Discussion Paper 07-15)

Vajjhala, S. P., (under review). Greening the Grid: A GIS Analysis of the Potential Impacts of Siting Difficulty on Renewable Energy Development. *Energy Journal*. (related RFF Discussion Paper 06-34)

Wilson, E.J., M. Granger Morgan, J. Apt, M. Bonner, C. Bunting, M. de Figueiredo, J. Gode, C. Jaeger, D. Keith, S. McCoy, R. S. Haszeldine, M. Pollak, D. Reiner, E. Rubin, A. Torvanger, C. Ularidic, **S. Vajjhala**, D. Victor, I. Wright, 2008. Regulating the Geological Sequestration of Carbon Dioxide. *Environmental Science & Technology* **42**(8): 2718–2722. (related RFF Discussion Paper 07-13)

Vajjhala, S. P. and P. S. Fischbeck, 2007. Quantifying Siting Difficulty: A Case Study of U.S. Transmission Line Siting. *Energy Policy* **35**(1): 650-671. (related RFF Discussion Paper 06-03)

REPORTS, SHORT ARTICLES, AND MISCELLANEOUS PUBLICATIONS

Vajjhala, S.P. and J. Nackoney, 2008. The New Cartography of Climate Change, *Resources*, Resources for the Future, Fall 2008 (167).

Vajjhala, S.P. Siting Difficulty and Transmission Investment. *LAEE Energy Forum*. 2nd Quarter 2008, pp. 5-7.

Vajjhala, S.P., Krupnick, A. et al., 2007. Rising to the Challenge: Integrating Social Sciences into NSF Environmental Observatories. RFF Report, September 2007.

Macauley, M., Vajjhala, S.P., and W.B. Gail. Measuring Ecoservices: New Opportunities to “See” Our Environmental Relationships. *Resources*, Resources for the Future, Spring 2007 (165).

Vajjhala, S.P. Siting Difficulty and Renewable Energy Development: A Case of Gridlock. *Resources*, Resources for the Future, Winter 2007 (164).

National Commission on Energy Policy, 2006. Siting Critical Energy Infrastructure: An Overview of Needs and Challenges. Washington, D.C., NCEP 1-42. (Shalini Vajjhala, contributing author).

Vajjhala, S. P., 2006. Where do we put all those windmills? *Denver Post*, Guest Commentary (April 2), p. 3E.

Vajjhala, S.P. "Ground Truthing" Policy: Using Participatory Map-Making to Connect Citizens and Decision Makers. *Resources*, Resources for the Future, Summer 2006 (162).

Walker, W. M., S. P. Vajjhala, et al., 2005. Ground-Truthing: Mapping Mobility and Access in Rural Lesotho. Washington, DC, The World Bank: 1-52.

Vajjhala, S. P., 2005. Integrating GIS and Participatory Mapping in Community Development Planning. ESRI International User Conference Proceedings, San Diego, CA, ESRI.

SELECTED PRESENTATIONS

"Examining the Role of RIAs and EISs in Integrating EJ into Federal Policies and Programs" (with Amanda van Epps) Environmental Justice in America, Howard University School of Law, May 24, 2008. Also presented at the Association for Public Policy Analysis and Management (APPAM) Annual Conference, Los Angeles, CA, November 6, 2008.

"Mapping Global Adaptation Hotspots: Setting Geographic Priorities for Building Resilience to Climate Change" Association of American Geographers Annual Conference, Boston, MA, April 19, 2008

"Can We Green the Grid? Linking Transmission and Renewable Energy Policies" Public Utility Research Center Annual Conference, University of Florida, Gainesville, FL, February 6, 2008

"Long-term Risks and Short-term Regulations: Making the Transition from Enhanced Oil Recovery to Carbon Sequestration" (with Alexander J. Bandza) 7th Annual Carbon Capture and Sequestration Conference, Pittsburgh, PA, May 6, 2008. Also presented at Society for Risk Analysis Annual Conference, San Antonio, TX, December 11, 2007.

"Regulating Environmental Justice: Mapping the Scope and Impact of EPA Environmental Justice Small Grants Program" Society for Risk Analysis, San Antonio, TX, December 11, 2007. Also presented at the Association for Public Policy Analysis and Management, Washington, DC, November 10, 2007 and the University of Michigan School of Natural Resources and Environment, Ann Arbor, MI, June 2007.

"Mapping Environmental Preferences for Ambiguous Natural Resources" Department of Geography and Environmental Engineering, Johns Hopkins University, Baltimore, MD, September 25, 2007.

"Location, Location, Location: Mapping Environmental Priorities, Perceptions, and Preferences" U.S. Department of State International Visitor Leadership Program, Washington, D.C. September 24, 2007.

"Mapping the Millennium Development Goals: DHS, GIS, and the Transport Sector" (with Wendy Walker) Urban and Regional Information Systems Association, Washington, DC, August 2007.

"Unpacking PPGIS: Evaluating the Role of Mapping in Science and Policy" Urban and Regional Information Systems Association Annual Conference (URISA), Washington, DC, August 2007.

"Adaptation Wedges: A Framework for Building Population and Ecosystem Resilience to Climate Change" EcoSummit, Ecological Society of America, Beijing, China, May 23, 2007

"Rising to the Challenge: Integrating Social Sciences into NSF Environmental Observatories" Co-leader of a two-day RFF-NSF workshop, Arlington, VA, January 2007.

"Mapping Spatial Risks: Using Participatory Mapping and GIS as a Tool for Risk Communication" Society for Risk Analysis Annual Meeting, Baltimore, MD, December 2006.

"Siting Difficulty and Renewable Energy Development" presented at the INFORMS Annual Meeting and the Carnegie Mellon Electricity Industry Center, Pittsburgh, PA, November 2006.

"Participatory Spatial Decision Making" a seminar at the Institute for Resources, Environment and Sustainability, University of British Columbia, Vancouver, Canada, September 2006.

"Extending Participation: Do Participatory GIS Maps Communicate?" presentation at the Royal Geographic Society of London Annual International Conference, London, UK, August 2006.

TEACHING EXPERIENCE

Guest Lecturer: University of Amsterdam School of Geography and Urban Planning, May 2003- December 2003
Invited lecturer in the Amsterdam Institute for Global Issues and Development Studies in the courses “Research Methods for Fieldwork in Developing Countries” and “The Urban Poverty Problem.”

Adjunct Instructor: Carnegie Mellon University School of Architecture, August 2002- May 2003
Member of the design studio faculty in the fifth-year Urban Lab; developed and taught a curriculum focusing on the interconnections between architecture, community, and design in a local urban context.

Project Manager / Teaching Assistant: Carnegie Mellon University Engineering and Public Policy, Spring 1999
Supervised 30 undergraduate students in a semester-long project to evaluate the energy consumption of the city of Pittsburgh and develop sustainable alternatives for regional resource use and management.

Instructor: Architecture for Children, Carnegie Mellon University School of Architecture, Fall 1997- Fall 1999
Prepared 10-week programs and taught basic art and architecture skills to children in grades 3-6.

FELLOWSHIPS, GRANTS, AND AWARDS

Andrew W. Mellon Foundation. \$108,000 Mellon Fellowship in Environmental Regulatory Implementation to document federal and state environmental justice regulation and its impacts, June 2006 – May 2008.

Genfund-World Bank Grant. \$50,000 project grant from a Norwegian/Dutch fund to support innovative gender-based evaluation within a World Bank transport program in Lesotho, Nov. 2004 – June 2005.

Charles A. and Anne Morrow Lindbergh Fellowship. Awarded a \$10,580 grant for applied environmental research that promotes a sustainable balance between technology and nature, June 2003 – June 2004.

Information Week Fellowship. Awarded a \$10,000 grant from Information Week Magazine and the CMU Software Industry Center to study social applications of information technology, May 2001 – Sept. 2001.

National Science Foundation Undergraduate Research and Education Grant. Received a Carnegie Mellon NSF grant to design and conduct participatory mapping studies with six Pittsburgh communities, July 2001.

ALA Honor Award. Awarded the American Institute of Architects Pittsburgh Chapter highest honor for excellence in design as a member of the Loysen + Associates McN project design team, October 2000.

Stephen Omer Lee Outstanding Project Award. Awarded an Engineering and Public Policy departmental award for overall excellence in project course development and implementation, May 1999.

Andrew Carnegie Scholarship. Received the highest Carnegie Mellon undergraduate merit award, 1996-2001.

PROFESSIONAL ACTIVITIES

Member of the U.S. Delegation to the Asia Pacific Partnership (APP) Energy Regulatory and Market Development Forum, Sydney, Australia, June 25-27, 2008.

Technical Grant Review Panel Member, Charles A. and Anne Morrow Lindbergh Foundation, 2005 – Assessor, World Bank Development Marketplace, 2006 – 2007

Graduate Teaching Awards Committee, Eberly Center for Teaching Excellence, Carnegie Mellon, 2005.

Member and Advisory Committee Liaison, Women’s Council on Energy and the Environment (WCEE)

Member, Association for Public Policy Analysis and Management, Institute for Operations Research and the Management Sciences, Society for Risk Analysis, Urban & Regional Information Systems Association

LANGUAGES

Fluent in English and Telegu, Proficient in Hindi and French, and Conversational in Spanish and Dutch.