

Jayjit Chakraborty

ABBREVIATED CURRICULUM VITAE

Associate Professor
Department of Geography
College of Arts and Sciences
University of South Florida
4202 E. Fowler Avenue, NES 107
Tampa, FL 33620
Ph: (813) 974-8188
Fax: (813) 974-4808
E-mail: jchakrab@cas.usf.edu

Last update: April 2008

A. GENERAL INFORMATION

Areas Of Specialization

Research: Environmental justice, environmental health, air pollution, information technology and society, racial/ethnic disparities, quantitative methods.

Teaching: Cartography, research methods, statistics, transportation, technological hazards.

Education

- 1999 **Ph.D.** in Geography, The University of Iowa, Iowa City, Iowa.
- 1993 **M.S.** in Urban and Regional Planning, The University of Iowa, Iowa City, Iowa.
- 1993 Graduate Certificate in Transportation Studies, The University of Iowa, Iowa City, Iowa.
- 1991 **B. Arch.** in Architecture, Bengal Engineering College, University of Calcutta, India.

Positions and Employment

- 2005 – present Associate Professor, Department of Geography, University of South Florida.
- 1999 – 2005 Assistant Professor, Department of Geography, University of South Florida.
- 1993 – 1999 Graduate Research/Teaching Assistant, Department of Geography, University of Iowa.
- 1992 – 1993 Research Assistant, Public Policy Center, University of Iowa.

Recent Professional Positions

- 2006 – present Member, Community Impact Assessment Subcommittee, Transportation Research Board, National Research Council.
- 2007 – 2008 Co-Chair, Tenure and Promotion Committee, College of Arts and Sciences, University of South Florida.
- 2005 – 2007 Chair, Hazards Specialty Group, Association of American Geographers (AAG).
- 2005 – present Member, Graduate Committee, Department of Geography, University of South Florida.
- 2005 – present Member, Faculty Evaluation Committee, Department of Geography, University of South Florida.

B. RESEARCH

Peer-Reviewed Articles In Journals And Edited Volumes

- Basu P, and Chakraborty J, 2008, "The Other Side of Sprawl: A County-Level Analysis of Farm Loss in Florida" *Southeastern Geographer*; forthcoming.
- Basu P, and Chakraborty J, 2008, "Land, Labor, and Rural Development: Analyzing Participation In India's Village Dairy Cooperatives" *The Professional Geographer*, 60(3): in press.
- Chakraborty J, and Zandbergen P, 2007, "Children at Risk: Measuring Racial/Ethnic Disparities in Potential Exposure to Air Pollution at School and Home" *Journal of Epidemiology and Community Health*, 61, 1074-1079.
- Chakraborty J, 2006, "Evaluating the Environmental Justice Impacts of Transportation Improvement Projects in the U.S." *Transportation Research Part D: Transport and Environment*, 11(5), 315-323.
- Bosman M M, and Chakraborty J, 2006, "Revisiting The Digital Divide: Race, Region and the Everyday Uses of Internet Technologies" *International Journal of Technology, Knowledge, and Society*, 2(3), 33-46.
- Basu P, and Chakraborty J, 2006 "Farmland Change in Florida: An Analysis Of Metropolitan – Non-Metropolitan Differences" *Papers of the Applied Geography Conferences*, 29, 252-262.
- Zandbergen P, and Chakraborty J, 2006 "Improving Environmental Exposure Analysis using Cumulative Distribution Functions and Individual Geocoding" *International Journal of Health Geographics*, 5, 23.
- Chakraborty J, and Bosman M M, 2005, "Measuring the Digital Divide in the U.S.: Race, Income, and Personal Computer Ownership" *The Professional Geographer*, 57 (3), 395-410.
- Everist M P, and Chakraborty J, 2005, "Analyzing the Spatial Distribution of Industrial Pollution from Meatpacking Operations in the U.S. Midwest" *Papers of the Applied Geography Conferences*, 28, 359-369.
- Chakraborty J, Tobin G A, and Montz, B E, 2005, "Population Evacuation: Assessing Spatial Variability in Geo-Physical Risk and Social Vulnerability to Natural Hazards" *Natural Hazards Review*, 6 (1), 23-33.
- Knezevic Z, and Chakraborty J, 2004, "Exploring the Environmental Justice Consequences of Nuclear Power Plant Siting in the U.S. Southeast" *Papers of the Applied Geography Conferences*, 27, 332-341.
- Chakraborty J, and Armstrong M P, 2004, "Thinking Outside the Circle: Using Geographical Knowledge to Focus Environmental Risk Assessment Investigations" In D. Janelle, B. Warf, and K. Hansen (eds.) *WorldMinds: Geographical Perspectives on 100 Problems*. Kluwer Academic Publications: Dordrecht, The Netherlands; 435-442.
- Chakraborty J, 2004, "The Geographic Distribution of Potential Risks Posed by Industrial Toxic Emissions in the U.S." *Journal of Environmental Science and Health—Part A*, A39 (3), 559-575.
- Fitos A, and Chakraborty J, 2003, "Who Lives Near Drycleaners? A Geographic Analysis of Environmental Inequity in Hillsborough County, Florida" *The Florida Geographer*, 34, 44-64.
- Chakraborty J, and Bosman M M, 2002 "Race, Income, and Home PC Ownership: A Regional Analysis of the Digital Divide" *Race and Society*, 5 (2), 163-177.
- Bosman M M, and Chakraborty J, 2002 "Regional Variations in On-Line Job Search Trends: Does Race (Still) Matter?" *Papers and Proceedings of the Applied Geography Conferences*, 25, 350-358.
- Chakraborty J, 2001, "Acute Exposure to Extremely Hazardous Substances: An Analysis of Environmental Equity" *Risk Analysis*, 21 (5), 883-894.
- Bosman M M, and Chakraborty J, 2001, "The Geographic Distribution of Home Computer Ownership in the Southeast: An Analysis of Racial and Economic Differences" *Southeastern Geographer*, 41 (2), 259-269.
- Chakraborty J, 2001, "Analyzing Exposure of School Children to Accidental Releases of Hazardous Substances" *Journal of Exposure Analysis and Environmental Epidemiology*, 11 (4), 269-278.

- Chakraborty J, and Bosman M M, 2001, "Regional Variations in Home Personal Computer Ownership in the U.S." *Papers and Proceedings of the Applied Geography Conferences*, 24, 276-283.
- Chakraborty J, and Armstrong M P, 2001, "Assessing the Impact of Airborne Toxic Releases on Populations with Special Needs" *The Professional Geographer*, 53 (1), 119-131.
- Chakraborty J, Schweitzer L, and Forkenbrock, D, 1999, "Using GIS to Assess the Environmental Justice Consequences of Transportation System Changes" *Transactions in GIS*, 3 (3), 239-258.
- Chakraborty J, and Rushton, G, 1998, "Projecting Grade-Specific Enrollments for School Catchment Areas: An Evaluation of Two Methods" *Applied Geographic Studies*, 2 (3), 157-175.
- Chakraborty J, and Armstrong M P, 1997, "Exploring the Use of Buffer Analysis for the Identification of Impacted Areas in Environmental Equity Assessment" *Cartography and Geographic Information Systems*, 24 (3), 145-157.
- Chakraborty J, and Armstrong M P, 1996, "Using Geographic Plume Analysis to Assess Community Vulnerability to Hazardous Accidents" *Computers, Environment and Urban Systems*, 19 (5/6), 341-356.

Books and Monographs

- Chakraborty J, and Bosman M M, (eds.) *Balancing the Scales: Spatial and Environmental Justice in Tampa Bay*. University Press of Florida: Gainesville, Florida (forthcoming in 2009).
- Armstrong M P, Rushton G, Chakraborty J, Ibaugh A I, and Ruggles, A J, 1997 *Spatial Data Systems for Transportation Planning*. Public Policy Center: The University of Iowa, Iowa City, IA 52242, 53 pp. (ISBN 0-87414-140-0).

Invited Talks and Presentations

- Panelist, "The Gilbert F. White Award Symposium: Social Vulnerability, Environmental Inequality, and Childhood Asthma in Phoenix, Arizona" *2008 Annual Meeting of the AAG* (Boston, MA); 2008.
- Speaker, "Understanding the Geography of Evacuation Need: The Intersection of Risk and Vulnerability in Hillsborough County, Florida" *Department of Geography Colloquium*, Department of Geography, University of South Florida (Tampa, FL); 2006.
- Invited Speaker, "Integrating Geo-Physical Risk and Social Vulnerability to Assess Evacuation Needs in Hillsborough County, Florida" *U.S. Geological Survey Seminar*, (St. Petersburg, FL); 2006.
- Invited Speaker "Measuring the Environmental Justice Implications of Transportation System Changes: A Case Study in Central Florida" *Transportation Seminar*, Center for Urban Transportation Research, University of South Florida (Tampa, FL); 2005.
- Guest Speaker "Incorporating Environmental Justice Considerations in Transportation Planning: Issues, Methods, and Challenges" *Geography Senior Colloquium*, Department of Geography, University of South Florida (Tampa, FL); 2005.
- Invited Participant and Speaker, *Conference on Race/Ethnicity, and Place* [Session on 'Race, Digital Divide, and Geospatial Technologies'] sponsored by the Association of American Geographers, Howard University, and Binghamton University (Washington, D.C.); 2004.
- Invited Speaker, "Indicators for Analyzing the Environmental Justice Consequences of Transportation Projects" Florida Department of Transportation, District Five (Orlando, FL); 2004.
- Panel Discussant, Plenary Session on Environmental Justice, *26th Annual Applied Geography Conference* (Colorado Springs, CO); 2003.
- Guest Lecturer, "Using GIS for Spatial Analysis of Disease Distributions" *Seminar in Applied Anthropology and International Health*, Department of Anthropology, University of South Florida (Tampa, FL); 2002.
- Guest Speaker, "Children at Risk: Exposure to Extremely Hazardous Substances in Hillsborough County, FL" *Geography Colloquium*, Department of Geography, University of South Florida (Tampa, FL); 2001

Recent Presentations at Professional Meetings (2004-present)

- Chakraborty J, "Driving in the Sunshine State: Vehicular Toxic Emissions and Health Risk Disparities" *2008 Annual Meeting of the AAG* (Boston, MA), 2008.
- Chakraborty J, "Children in the City: Racial/Ethnic Disparities in Air Pollution Exposure at School and Home" *62nd Annual Meeting of the Southeastern Division of the Association of American Geographers* (Charleston, SC); 2007.
- Basu P, and Chakraborty J, "Farmland Change in Florida: An Analysis Of Metropolitan – Non-Metropolitan Differences" *29th Annual Applied Geography Conference* (Tampa, FL); 2006.
- Bosman M M, and Chakraborty J, "Revisiting the Digital Divide: Race, Region and the Everyday Uses of Internet Technologies" *2006 Technology and Citizenship Symposium* (Montreal, Canada); 2006.
- Everist M P, and Chakraborty J, "Analyzing the Spatial Distribution of Industrial Pollution from Meatpacking Operations in the U.S. Midwest" *28th Annual Applied Geography Conference* (Washington, D.C); 2005.
- Chakraborty J, "Incorporating Environmental Justice Considerations in the Transportation Planning Process: An Evaluation of Proposed Highway Improvements in Central Florida" *Annual Meeting of the Association of American Geographers 2005* (Denver, CO); 2005.
- Chakraborty J and Bosman M M, "Revisiting the Digital Divide: Race, Region and the Everyday Uses of Internet Technologies" *Conference on Race/Ethnicity and Place* (Washington, D.C.); 2004.
- Chakraborty J, Tobin G A, and Montz, B M, "The Geography of Evacuation Need: Assessing Geo-Physical Risk and Social Vulnerability to Hazards" *Annual Meeting of the Association of American Geographers 2004* (Philadelphia, PA), 2004.

Research Grants

- Principal Investigator, *Developing GIS-Based Indicators to Support Social Cultural Effects Analysis for the Efficient Transportation Decision Making (ETDM) Program*. Data Transfer Solutions and the Florida Department of Transportation (District Five); 2007-2008.
- Principal Investigator, *Research to Develop New Straight Line Diagram Application for the Florida Department of Transportation*. Florida Department of Transportation; 2006.
- Principal Investigator, *Methods and Indicators for Evaluating Sociocultural Effects of Transportation Projects*. Data Transfer Solutions and the Florida Department of Transportation (District Five); 2004-2005.
- Principal Investigator, *Virtual Networks and Real Farmers: Exploring the Impact of Information Technologies in Rural India*. Established Researcher Award, Division of Research Grants, University of South Florida; 2004-2005.
- Principal Investigator, *Developing Indicators to Assess the Environmental Justice Consequences of Transportation System Changes*. Florida Department of Transportation (District Five) and Space Imaging Corporation; 2003-2004.
- Co-Principal Investigator, *Developing Interactive Cartographic Tools for Studying Black History in Florida*. Institute on Black Life, University of South Florida; 2003-2004.
- Co-Principal Investigator, *A Comprehensive Analysis of Low Birth Weight Incidence in Hillsborough County, Florida*. University of South Florida Center for Scholarship in Action Grant Program; 2002-2003.
- Principal Investigator, *Children at Risk: Assessing Daytime Exposure of School Children to Urban Toxic Hazards*. Research and Creative Scholarship Award, Division of Sponsored Research (DSR), University of South Florida; 2000-2002.
- Principal Investigator, *Developing a Risk-based Approach for the Assessment of Urban Environmental Justice*. Faculty Research Grant Program, Institute on Black Life, University of South Florida; 2000-2001.

Awards

Anne U. White Fund, Association of American Geographers (AAG), 2005.

Faculty Development Award, College of Arts and Sciences, University of South Florida; 2004.

Joan S. Lara Memorial Scholarship Award, Department of Geography, University of Iowa; 1998.

Best Student Paper Award, International Geographic Information Foundation (GIS/LIS '96); 1996.

Finalist, Best Paper Award, Midwest Transportation Center's Transportation Scholars Program; 1994.

C. TEACHING

Courses taught at USF

UNDERGRADUATE:

Transportation Geography (GEO 4700)

Computer Cartography (GIS 3006)

Research Methods in Geography (GEO 3164C)

Quantitative Methods (GEO 3164)

Digital Thematic Mapping (GEO 3141)

Introduction to Earth System Science (GEO 2371).

GRADUATE:

Technological Hazards and Environmental Justice (GEO 6345)

Multivariate Statistical Analysis (GEO 6166)

Seminar in Advanced Human Geography (GEO 6428:901)

Graduate student supervision

1. PhD Dissertations and MA theses completed at USF

House, Joshua "The Spatial Distribution of Geoprivacy Risk in Florida: A County-Level Analysis" (MA Thesis Director), Department of Geography, 2008.

Bell, Heather "Situating the Perception and Communication of Flood Risk: Components and Strategies" (PhD Dissertation Committee Member), Department of Geography, 2007.

Piricncioglu, Fatih "Safety Impacts of Right Turns Followed by U-Turns" (PhD Dissertation Committee Member), Department of Civil and Environmental Engineering, 2007.

Harmak, Craig "Danger Afoot: The Automobile Hazard and the Relationship Between Sidewalks and Pedestrian Safety in Pinellas County, Florida (MA Thesis Director), Department of Geography, 2007.

Raulerson, April "Hurricane Forecasting, Warning and Response Systems: A Lake Wales Public Perception Study" (MA Thesis Committee Member), Department of Geography, 2006.

Higham, Chris "Modeling Larval Connectivity among Coral Habitats, Acropora palmate Populations, and Marine Protected Areas in the Florida Keys National Marine Sanctuary (MA Thesis Committee Member). 2006.

Wolfe, Joshua "It Takes More Than Sun, Sea and Sand: The Case of Tourism in the Tampa Bay Region, Circa 1970-2000 (MA Thesis Committee Member), Department of Geography, 2006.

Dye, Daniel, "Monitoring and Modeling Water Quality at the C.W. Young Regional Reservoir (MA Thesis Committee Member), Department of Geography, 2006.

Kedrowski, Jon "Assessing Human-Environmental Impacts on Colorado's 14,000-foot Mountains" (MA Thesis Director), Department of Geography, 2006.

Clay, Kelsey “Spatial Modeling of Socioeconomic Well-Being Using a Modified Human Development Index for Florida Counties” (MA Thesis Committee Member), Department of Geography, 2006.

Miller, Raymond “Modeling Hurricane Evacuation Vulnerability: A Case Study of Pinellas County, Florida” (MA Thesis Committee Member), Department of Geography, 2005.

Everist, MaryPat, “Immigrant Vulnerability in High-Risk Industry: A Socio-Occupational Examination of Counties with Large Meatpacking Plants in Iowa and Nebraska” (MA Thesis Director), Department of Geography, 2005.

Hashimoto, Tomoyuki, “Spatial Analysis of Pedestrian Accidents” (MA Thesis Committee Member), Department of Geography, 2005.

Fitos, Ekaterina “Toxic Threats in Drinking Water: A Geographic Analysis of Wastewater Pollution in Hillsborough County, Florida” (MA Thesis Director), Department of Geography, 2004.

Bell, Heather “Efficient and Effective: The Hundred Year Flood in the Communication and Perception of Flood Risk” (MA Thesis Committee Member), Department of Geography, 2004.

Albury, Keith “Multiple Hazards and Community Vulnerability in Hillsborough County, Florida” (MA Thesis Committee Member), Department of Geography, 2004.

Salmond, Jacqueline “An Evaluation of the Vision 2020 Plan for St. Petersburg, Florida” (MA Thesis Committee Member), Department of Geography, 2004.

Knezevic, Zlatko “Analyzing Environmental Justice Consequences of Nuclear Power Plant Siting in Southeastern U.S.” (MA Thesis Director), Department of Geography, 2004.

Fitos, Alexandra “Where the Palm Grows: The Ybor City Revitalization Project” (MA Thesis Committee Member), Department of Geography, 2004.

Hughey, Erin “Community Size and Response to Hazards: A Case Study of Falmouth Kentucky and the Flood of 1997” (MA Thesis Committee Member), Department of Geography, 2003.

LoMeli, Denise “The Effects of WAGES on Females Heads of Household in Hillsborough County, Florida” (MA Thesis Committee Member), Department of Geography, 2003.

Bartolomeo, Brandi “An Analysis Of Low Birth Weight Incidence In Florida” (MA Thesis Committee Member), Department of Geography, 2002.

2. Non-Thesis Committees

Miller, Greg (MA Comprehensive Exam Committee Chair), Department of Geography, 2007.

Bennett, Melissa (MA Comprehensive Exam Committee Member), Department of Geography, 2007.

3. Current Student Committees

2006 – present. **Williams, Marilyn** (Chair, PhD Dissertation Committee), Geography.

2007 – present. **Landry, Shawn** (Chair, PhD Dissertation Committee), Geography.

2006 – present. **Painter, Shayne** (Member, PhD Committee), Civil and Environmental Engineering.

2008 – present. **Gilbert, Angela** (Chair, MA Thesis Committee), Geography.

2008 – present. **Hinkel, Dustin** (Member, MA Thesis Committee), Geography.

2008 – present. **Bomb, Pinky** (Member, MA Thesis Committee), Geography.

2005 – present. **Nonnemaker, Scott** (Member, MA Thesis Committee), Geography.