

CURRICULUM VITAE
DR. RINKU ROY CHOWDHURY
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RESEARCH SPECIALIZATIONS AND INTERESTS

Land change science, Human dimensions of global environmental change, GIS and remote sensing, Cultural and political ecology, Landscape and conservation ecology, suburban landscapes, Mexico

ACADEMIC TRAINING

- Ph.D., 2003. Geography. Graduate School of Geography, Clark University. Dissertation Title: *Livelihoods in the balance: The institutional and ecological conditions of smallholder land use in the Calakmul-southern Yucatán region, Mexico*. Dissertation advisor: Dr. B. L. Turner II.
- M.S., 1996. Conservation Ecology and Sustainable Development. Institute of Ecology, University of Georgia. M.S. thesis title: *Socioeconomic and locational factors influencing land use change in Macon county, North Carolina*. Thesis advisor: Dr. G. Arthaud.
- B.A. (magna cum laude), 1994. Wellesley College. Majors: Computer Science, Environmental Science. Major advisors: Dr. R. Shull (Computer Science), Dr. N. Rodenhouse and Dr. M. Thompson (Environmental Science).

PROFESSIONAL EMPLOYMENT

- *Assistant Professor, Department of Geography, Indiana University, August 2008 – Present*
- *Visiting Assistant Professor, Department of Geography, Indiana University, May 2008 – August 2008*
- *Assistant Professor, Department of Geography and Regional Studies, University of Miami, August 2003 – May 2008.*
- *Doctoral dissertation research, Clark University, August 1999 – July 2003.*
Field research and analysis of institution-environment interactions and landscape change in southern Mexico, supported by NASA fellowship and NSF dissertation grant.
- *Research Assistant, NASA LCLUC-SYPR project, Clark University, January 1997 – July 1999.*
Development of remote sensing methodology, Landsat TM-derived classification of land use/cover in the southern Yucatán. Development of spatially explicit, empirical models of land use change.
- *Teaching Assistant, Issues in Global Society, International Studies Stream, Clark University, August – December 1996.*
Researched student internship opportunities.
- *Research Assistant, Coweeta Long-Term Ecological Research (LTER) Project, Institute of Ecology, University of Georgia, August 1994 – August 1996.*
Research integrating socioeconomic dimensions with LTER agenda, statistical models of socioeconomic factors driving land use change in the region of the Coweeta watershed.

- *Teaching assistant, Forest Ecology, Warnell School of Forest Resources, University of Georgia, January 1995 – March 1995.*
Assisted in lecture and field lab sessions teaching principles of forest ecology.
- *Research Assistant, Department of Biology, Wellesley College, September 1992 – May 1994.*
Simulation models of zooplankton population dynamics under climate change and eutrophication scenarios.
- *Special Assistant, Information Technology Services, Wellesley College, September 1991 – August 1992.*
Software training and documentation; computer consulting for faculty, staff and students.

HONORS AND AWARDS

- 2010 Nominated for National Teaching/Mentorship Award by the Delta Gamma Foundation (Theta Chapter)
- 2005 Scholarly and Creative Activities Award, College of Arts and Sciences, University of Miami
- 2002 Horton-Hallowell Fellowship, Wellesley College
- 1999-2002 NASA Earth System Science Fellowship
- 1998 Outstanding Research Fellow Award, Clark University
- 1994 Elizabeth F. Fischer Fellowship, Wellesley College

RESEARCH GRANT ACTIVITIES

Funded Research

- 2011- National Science Foundation (07/01/2011–06/30/2015). PIs P.M. Groffman (Cary Institute of Ecosystem Studies), and Co-PIs (in alphabetical order of last name): J.M. Cavender-Bares (University of Minnesota-Twin Cities), J.M. Grove (USDA Forest Service), S.J. Hall (Arizona State University), J.B. Heffernan (Florida International University), S.E. Hobbie (University of Minnesota-Twin Cities), K.L. Larson (Arizona State University), C. Neill (Woods Hole Marine Biological Laboratory), K.C. Nelson (University of Minnesota-Twin Cities), L.A. Ogden (Florida International University), D.E. Pataki (University of California-Irvine), C. Polsky (Clark University) and R. Roy Chowdhury (Indiana University). *Collaborative Research: Ecological Homogenization of Urban America*. [\$3,216,952]
- 2011- National Aeronautics and Space Administration (01/01/2011–12/31/2013). PIs F. Rahman, D. Donato (USDA Forest Service), B. Kaufmann (USDA Forest Service) and R. Roy Chowdhury. *Carbon Dynamics, Land Cover Change, and Vulnerability of the World's Largest Coastal Mangrove Ecosystem to Climate Change*. [\$678,375]
- 2010- Sustainability Research Development Grant (with M. Perkins, entitled “Management and Ecosystem Composition in Mexico’s Agroforestry Systems”), Indiana University Office of Sustainability, College of Arts and Sciences, School for Public and Environmental Affairs, Center for Research on Energy & the Environment [\$10,000]
- 2009 C. Tucker, C. Barbour, R. Roy Chowdhury and B. Schulz. *Building sustainable food knowledge and practices: An interdisciplinary seminar series*. Multidisciplinary Ventures and Seminars Fund, Indiana University [\$5,400]
- 2008 K. Larson, M. Grove, C. Polsky and R. Roy Chowdhury. *Socioecological dynamics of residential landscapes*. Cross-LTER site research workshop in February 2009. National Science Foundation LTER program [\$17,805, part of NSF Grant No. DEB-0423704 Central Arizona Phoenix (CAP) LTER, Start Date: 11/11/1997 - Expiration Date: 11/30/2010]

- 2008 R. Roy Chowdhury, L. Ogden and H. Gladwin. *Cartographies of exemption: The political ecology of zoning and land use in south Florida*. National Science Foundation LTER program [\$19,999, part of NSF Grant No. DBI-0620409 Florida-Coastal Everglades (FCE) LTER, 12/01/2006-11/30/2012]
- 2007 R. Roy Chowdhury. *Forest loss, fragmentation and connectivity in the Calakmul-Sian Ka'an Connector, MesoAmerican Biological Corridor, Mexico*. J. W. McLamore Awards committee, University of Miami [\$9,300]
- 2006 T. Ardren and R. Roy Chowdhury. *Environment and tourism in Latin America* (Interdisciplinary Research Group). Center for Latin American Studies, University of Miami [\$1,000]
- 2005 R. Roy Chowdhury. *A comparative analysis of land cover and change in the Biosphere Reserves of Calakmul, Campeche and Alamos, Sonora, Mexico*. J. W. McLamore Awards committee, University of Miami [\$9,300]
- 2004 D. O. Fuller and R. Roy Chowdhury. *Remote sensing and its emerging impact on forest policy in Indonesia*. Center for Ecosystem Science and Policy, University of Miami [\$24,000]
- 2004 R. Roy Chowdhury. *Neoliberal policy and environmental institutions: Smallholders, communities and forest fragmentation in southern Mexico*. J. W. McLamore Awards committee, University of Miami [\$9,300]
- 2002 R. Roy Chowdhury. *Conservation in the southern Yucatán peninsular region, Mexico: Linking landscape ecology and social institutions*. Wellesley College Horton-Hallowell Fellowship [\$10,000]
- 1999-2002 R. Roy Chowdhury. *Conservation in the southern Yucatán peninsular region, Mexico: Linking landscape ecology and social institutions*. National Aeronautics and Space Administration Earth Systems Science Fellowship [\$66,000]
- 1999 R. Roy Chowdhury. *Landscape ecology and institutions of conservation in the southern Yucatán, Mexico*. National Science Foundation (Geography and Regional Science) Dissertation Improvement Grant [\$10,000]
- 1999 R. Roy Chowdhury. Pruser-Holzhauser Graduate Pre-Dissertation Grant, Clark University [\$500]

PUBLICATIONS

Journal Articles Published or Accepted/In Press

Roy Chowdhury, R. 2012. Revisiting the Environmental Kuznets Curve: An Introduction to the Special Issue. *Journal of Applied Geography* 32:1-2.

Roy Chowdhury, R. and E.F. Moran. 2012. Turning the Curve: A theoretical, methodological and empirical review of Kuznets Approaches. *Journal of Applied Geography* 32:3-11.

Roy Chowdhury, R., K. Larson, J.M. Grove, C. Polsky, E. Cook, J. Onsted and L. Ogden. nd. A multi-scalar approach to theorizing socio-ecological dynamics of urban residential landscapes. Accepted in *Cities and the Environment*.

Hernandez, M., **R. Roy Chowdhury**, L. Fleming and D. Griffith. 2011. Colorectal Cancer and Socioeconomic Status in Miami-Dade County: Neighborhood-level associations before and after the Welfare Reform Act. *Journal of Applied Geography* 31(3):1019-1025.

Roy Chowdhury, R. 2010. Differentiation and concordance in smallholder land use strategies in southern Mexico's conservation frontier. *Proceedings of the National Academy of Sciences of the USA* 107:5780–5785.

C. Radel, B. Schmook and **R. Roy Chowdhury**. 2010. Agricultural Livelihood Diversification in the Southern Yucatán Region: Diverging Paths with Implications for Environmental Change. *Regional Environmental Change* 10(3): 205-218.

Impoinvil, D.E., J. Keating, C.M. Mbogo, M.D. Potts, **R. Roy Chowdhury** and J.C. Beier. 2008. Abundance of immature Anopheles and culicines (Diptera: Culicidae) in different water body types in the urban environment of Malindi, Kenya. *Journal of Vector Ecology* 33(1): 107-116.

Roy Chowdhury, R. 2007. Household land management and biodiversity: Secondary succession in a forest-agriculture mosaic in southern Mexico. *Ecology and Society* 12(2): 31. [online] URL: <http://www.ecologyandsociety.org/vol12/iss2/art31/>

Impoinvil, D.E., J. Keating, **R. Roy Chowdhury**, R. Duncan, G. Cardenas, S. Ahmad, C. M. Mbogo, J. I. Githure and J. C. Beier. 2007. The association between distance to water pipes and water bodies positive for anopheline mosquitoes (Diptera: Culicidae) in the urban community of Malindi, Kenya. *Journal of Vector Ecology* 32(2): 319-327.

Roy Chowdhury, R. 2006. Driving forces of tropical deforestation: The role of remote sensing and spatial models. *Singapore Journal of Tropical Geography* 27(1): 82-101.

Roy Chowdhury, R. 2006. Landscape change in the Calakmul Biosphere Reserve, Mexico: Modeling the driving forces of smallholder deforestation in land parcels. *Applied Geography* 26(2): 129-152.

Roy Chowdhury, R. and B. L. Turner II. 2006. Reconciling agency and structure in empirical analysis: Smallholder land use in the southern Yucatán, Mexico. *Annals of the Association of American Geographers* 96(2): 302-322.

Keys, E. and **R. Roy Chowdhury**. 2006. Cash crops, smallholder decision making and institutional interactions in a closing frontier, Calakmul, Campeche, Mexico. *Journal of Latin American Geography* 5(2): 75-90.

Fuller, D.O and **R. Roy Chowdhury**. 2006. Monitoring and modelling tropical deforestation: Introduction to the special issue. *Singapore Journal of Tropical Geography* 27(1): 1-3.

Turner II, B. L., S. Cortina-Villar, D. Foster, J. Geoghegan, E. Keys, P. Klepeis, D. Lawrence, P. Macario-Mendoza, S. Manson, Y. Ogneva-Himmelberger, A.B. Plotkin, D. Pérez-Salicrup, **R. Roy Chowdhury**, B. Savitsky, L. Schneider, B. Schmook and C. Vance. 2001. Deforestation in the southern Yucatán peninsular region: an integrative approach. *Forest Ecology and Management* 154(3): 353-370.

Geoghegan, J., S. Cortina-Villar, P. Klepeis, P. Macario-Mendoza, Y. Ogneva-Himmelberger, **R. Roy Chowdhury**, B. L. Turner II and C. Vance. 2001. Modeling tropical deforestation in the southern Yucatán peninsular region: comparing survey and satellite data. *Agriculture, Ecosystems and Environment* 85: 25-46.

Roy Chowdhury, R. 1999. Agroforestry: Systems of diversity or divestiture? *Revista Geográfica* 125: 99-112.

Book Manuscript Publications

Brondízio, E. and **R. Roy Chowdhury**. 2010. Spatio-temporal methodologies in Environmental Anthropology: Geographic Information Systems, remote sensing, landscape changes and local

knowledge. In Ismael Vaccaro, Eric Alden Smith and Shankar Aswani, eds. *Society and Environment: Methods and Research Design*. Cambridge University Press. pp. 266-298.

Sader, S. A., **R. Roy Chowdhury**, L. C. Schneider and B. L. Turner II. 2004. Forest change and human driving forces in Central America. In Garik Gutman, Anthony Janetos, Christopher Justice, Emilio Moran, John Mustard, Ronald Rindfuss, David Skole, and B. L. Turner II, eds. *Land Change Science: Observing, Monitoring, and Understanding Trajectories of Change on the Earth's Surface*. Dordrecht, NL: Kluwer, pp. 57-96.

Roy Chowdhury, R. and L. C. Schneider. 2004. Land-cover/use in the southern Yucatán peninsular region, Mexico: Classification and change analysis. In B. L. Turner II, J. Geoghegan and D. Foster, eds. *Integrated Land-Change Science and Tropical Deforestation in the Southern Yucatán: Final Frontiers*. Oxford: Clarendon Press/Oxford U.P., pp. 105-141.

Klepeis, P. and **R. Roy Chowdhury**. 2004. Institutions, policy and land change: Complexity within and beyond the ejido. In B. L. Turner II, J. Geoghegan and D. Foster, eds. *Integrated Land-Change Science and Tropical Deforestation in the Southern Yucatán: Final Frontiers*. Oxford: Clarendon Press/Oxford U.P., pp. 145-169.

Geoghegan, J., L. Pritchard, Jr., Y. Ogneva-Himmelberger, **R. Roy Chowdhury**, S. Sanderson and B. L. Turner II. 1998. "Socializing the pixel" and "pixelizing the social" in land-use/cover change. In D. Liverman, E.F. Moran, R.R. Rindfuss and P.C. Stern, eds. *People and Pixels: Linking Remote Sensing and Social Science*. Committee on the Human Dimensions of Global Environmental Change, National Research Council. National Academy Press, Washington, D.C. pp. 51-69.

Monographs and other publications

Roy Chowdhury, R. 2007. Agroforestry. In P. Robbins (ed.) *Encyclopedia of Environment and Society*. London: Sage Publications. pp 19-20.

Roy Chowdhury, R. 2007. Brundtland Report. In P. Robbins (ed.) *Encyclopedia of Environment and Society*. London: Sage Publications. pp 172-173.

Roy Chowdhury, R. 2007. Conservation Biology. In P. Robbins (ed.) *Encyclopedia of Environment and Society*. London: Sage Publications. pp 349-351.

Roy Chowdhury, R. 2007. Ecology. In P. Robbins (ed.) *Encyclopedia of Environment and Society*. London: Sage Publications. pp 516-523.

Roy Chowdhury, R. 2007. Edge Effect. In P. Robbins (ed.) *Encyclopedia of Environment and Society*. London: Sage Publications. pp 541-542.

Roy Chowdhury, R. 2007. Global Environmental Change. In P. Robbins (ed.) *Encyclopedia of Environment and Society*. London: Sage Publications. pp 773-782.

Roy Chowdhury, R. 2007. Intermediate Disturbance Hypothesis. In P. Robbins (ed.) *Encyclopedia of Environment and Society*. London: Sage Publications. pp 941-943.

Roy Chowdhury, R. 2003. *Livelihoods in the balance: The institutional and ecological conditions of smallholder land use in the Calakmul-southern Yucatán region, Mexico*. Doctoral dissertation. Clark University, Worcester, MA.

Conference Proceedings

Roy Chowdhury, R. 2004. Land use in the southern Yucatán peninsula, Mexico: Smallholder agency in changing institutional regimes. In Proceedings of the 2004 Annual Meeting of the Latin American Studies Association, Las Vegas, Nevada.

Geoghegan, J., P. Klepeis, Y. Ogneva-Himmelberger, R. Roy Chowdhury, B. L. Turner II and C. Vance. 2000. Spatial Modeling of Tropical Deforestation in the Southern Yucatan Peninsular Region: Comparing Aggregate and Disaggregate Approaches. In Proceedings for 4th International Conference on Integrating GIS and Environmental Modeling (GIS/EM4): Problems, Prospects and Research Needs. Banff, Alberta, Canada.

PROFESSIONAL CONFERENCE, WORKSHOP AND INVITED PRESENTATIONS

Conference Presentations

- 2011 Roy Chowdhury, R, A. Decatur, J.M. Grove, E. Harris, K. Larson, D. Martin, J. O'Neil-Dunne, L. Ogden, C. Polsky and N. Vaughn. *Landscape and social ecologies of suburbanization: what is on our residential landscapes?* Annual meeting of the Association of American Geographers, April 12-16, 2011. Seattle, WA.
- 2011 Polsky, C., J.M. Grove, K. Larson, L. Ogden, J. Fraser, E. Harris, D. Martin, R. Garvoille, J. Sayles, R. Roy Chowdhury and N. Vaughn. *Landscape and social ecologies of suburbanization: Why our landscapes are the way they are.* Annual meeting of the Association of American Geographers, April 12-16, 2011. Seattle, WA.
- 2011 Hetrick, S., R. Roy Chowdhury, E. Brondizio and E. Moran. *Spatial patterns, temporal trends and socioeconomic determinants of vegetative cover in Altamira, Brazil.* Annual meeting of the Association of American Geographers, April 12-16, 2011. Seattle, WA.
- 2011 Roy Chowdhury, R. Panelist. *Using Local Knowledge to Understand Land Use/Land Cover Change at Long Term Ecological Research (LTER) Sites.* Annual meeting of the Association of American Geographers, April 12-16, 2011. Seattle, WA.
- 2010 Roy Chowdhury, R. N. Vaughn and L. Ogden. *Land use and vegetative cover patterns in south Florida's urbanization frontier.* Global Land Project and Urbanization and Global environmental Change Joint Science Meeting, October 15-19, Arizona State University, Tempe, AZ.
- 2010 Roy Chowdhury, R. and E.F. Moran. *Turning the Curve: A critical review of Theoretical, Methodological and Empirical Contributions of Kuznets approaches.* Annual meeting of the Association of American Geographers, April 14-18, 2010. Washington, DC.
- 2010 Keys, E. and R. Roy Chowdhury. *Bid rents and Social Capital.* Annual meeting of the Association of American Geographers, April 14-18, 2010. Washington, DC.
- 2010 Onsted, J. and R. Roy Chowdhury. *Does zoning matter for urban growth calibration and simulation?* Annual meeting of the Association of American Geographers, April 14-18, 2010. Washington, DC.
- 2009 J. Onsted, L. Ogden and R. Roy Chowdhury. Poster presentation. *Zoning and Land Use Change: Dynamic Processes in Southern Florida.* LTER All Scientists Meeting, September 14-16, 2009. Estes Park, CO.
- 2009 Roy Chowdhury, R., L. Ogden and J. Onsted. *Socio-ecological dynamics of residential land conversion, South Florida.* LTER All Scientists Meeting, September 14-16, 2009. Estes Park, CO.

- 2009 Roy Chowdhury, R., L.A. Ogden and J. Onsted. *Characterizing and contextualizing residential land covers in south Florida*. Annual meeting of the Association of American Geographers, March 25, 2009. Las Vegas, NV.
- 2009 Roy Chowdhury, R. Panelist. *Sustainability and Sustainable Democracy*. Conference: Building Sustainable Democracies. January 30-31, 2009. Indiana University, Bloomington, IN.
- 2008 Roy Chowdhury, R., H. Gladwin, L.A. Ogden and J. Onsted. *Cartographies of exemption: The political ecology of land use and zoning in south Florida*. The 14th International Symposium on Society and Resource Management. Burlington, VT.
- 2008 Roy Chowdhury, R. *Adaptation and adaptive capacity: Institutional and ecological change in southern Mexico*. Annual meeting of the Association of American Geographers, Boston, MA.
- 2008 Roy Chowdhury, R. Panelist. *Land change and community adaptation*. Annual meeting of the Association of American Geographers, Boston, MA.
- 2007 Roy Chowdhury, R. and E. Keys. *Bridging theories of landscape ecology and agricultural change*. Annual meeting of the Association of American Geographers, San Francisco, CA.
- 2007 Roy Chowdhury, R. Panelist. *Poverty and conservation 2 – Recent empirical findings*. Annual meeting of the Association of American Geographers, San Francisco, CA.
- 2006 Roy Chowdhury, R. *Secondary succession in the southern Yucatán, Mexico: Landscape pattern, social dimensions and smallholder land use portfolios*. Annual meeting of the Association of American Geographers, Chicago, IL.
- 2006 Roy Chowdhury, R. session discussant. *Linking social and ecological systems I: Theory, rationale and necessity for integrating social and ecological systems*. Annual meeting of the Association of American Geographers, Chicago, IL.
- 2006 Roy Chowdhury, R. *Smallholder land use decisions and landscape effects in a forest-agriculture mosaic, southern Yucatán, Mexico*. Annual symposium of the United States Regional Chapter of the International Association for Landscape Ecology, San Diego, CA.
- 2005 Roy Chowdhury, R. *Scales in institutional ecology: Some implications for land change studies*. Annual meeting of the Association of American Geographers, Denver, CO.
- 2005 Roy Chowdhury, R., session discussant. *Understanding land transformations through spatially explicit models*. Annual meeting of the Association of American Geographers, Denver, CO.
- 2005 Roy Chowdhury, R. *Deforestation in the southern Yucatán peninsula, Mexico: The role of remote sensing and land change models*. Annual meeting of the American Society for Photogrammetry and Remote Sensing, Baltimore, MD.
- 2004 Roy Chowdhury, R. *Land use in the southern Yucatán peninsula, Mexico: Smallholder agency in changing institutional regimes*. Annual meeting of the Latin American Studies Association, Las Vegas, NV.
- 2004 Roy Chowdhury, R. and E. Keys. *Institutional change and smallholder land use in Calakmul's ejidos*. Biennial meeting of the International Association for the Study of Common Property, Oaxaca, Mexico.
- 2004 Roy Chowdhury, R. *Regional and local landscape change in the southern Yucatán, Mexico: forests, smallholders and institutions*. Annual Meeting of the Association of American Geographers, Philadelphia, PA.

- 2003 Roy Chowdhury, R. *Land use, landscape and institutional environmental regimes in the southern Yucatan peninsular region, Mexico*. Annual Meeting of the Association of American Geographers, New Orleans, LA.
- 2001 Roy Chowdhury, R. *Land use change, conservation and social movements: Institutional dynamics in the southern Yucatán peninsular region, Mexico*. Open meeting of the Human Dimensions of Global Environmental Change, Rio de Janeiro, Brazil.
- 1999 Klepeis, P. and R. Roy Chowdhury. *The use of historical sketch maps in improving results of supervised classification of Landsat TM data*. Annual Meeting of the Annals of the Association of American Geographers, Honolulu, Hawaii.
- 1998 Savitsky, B.G., Y. Ogneva-Himmelberger, and R. Roy Chowdhury. *The use of multi-temporal image classification in modeling land use and land cover change: a case study in the Southern Yucatán Peninsular Region*. Annual Conference of the American Society for Photogrammetric Engineering and Remote Sensing, Tampa, Florida.
- 1998 Roy Chowdhury, R. and Y. Ogneva-Himmelberger. *Landscape and locational indices influencing deforestation in the southern Yucatán peninsular region, Mexico*. Annual Meeting of the Association of American Geographers, Boston, MA.
- 1998 Roy Chowdhury, R. and Y. Ogneva-Himmelberger. *Modeling land-use/cover change in the southern Yucatán peninsular region, Mexico*. Land Use and Cover Change (LUCC) Open Science Meeting, Barcelona, Spain.

Selected Invited Presentations and Meeting/Workshop Participation

- 2010 Roy Chowdhury, R. *Structure, agency and spatial relations in environmental theory*. Graduate seminar: Interdisciplinary Environmental Theory, Center for Ecosystem Science and Policy, University of Miami. Miami, FL. November 17, 2010.
- 2010 Roy Chowdhury, R. *Structure and agency in human-environment relations*. Graduate seminar: Research Problems in Geography, Indiana University. Bloomington, IN. November 5, 2010.
- 2010 Roy Chowdhury, R. *From Yardstick to Gyroscope*. Workshop on Methods for Long-Term Social-Ecological Research, Harvard Forest. Petersham, MA. April 27-30, 2010.
- 2010 Roy Chowdhury, R. Discussant. *Land Use and Land Cover Change Research*. Workshop on Human-Environment Interactions, Anthropological Center for Training and Research on Global Environmental Change, Indiana University. Bloomington, IN. February 25-27, 2010.
- 2010 Roy Chowdhury, R. Presenter, Co-Chair. *New Directions in Human-Environment Interaction*. Workshop on Human-Environment Interactions, Anthropological Center for Training and Research on Global Environmental Change, Indiana University. Bloomington, IN. February 25-27, 2010.
- 2010 Roy Chowdhury, R. *Farming food, cultivating conservation: Farmstead production logics in southern Mexico and implications for a forest transition*. Food Studies Seminar Series, Indiana University. Bloomington, IN. January 25, 2010.
- 2009 Roy Chowdhury, R. *Smallholder land management, forest change and environmental history in southern Mexico*. Ecological Anthropology seminar, Indiana University. Bloomington, IN. November 3, 2009.

- 2009 Roy Chowdhury, R. Conference Co-organizer and Participant. The First Annual Millennium Conference: Water, Drought and Ecosystem Services. November 9-12, 2009. Athens, GA.
- 2009 Roy Chowdhury, R. Participant. Florida Coastal Everglades LTER All Scientists Meeting. October 15-16, 2009. Miami, FL.
- 2009 Roy Chowdhury, R. Co-organizer and participant. LTER All Scientists Meeting Workshop: *Recent Advances and Opportunities for Urban Long Term Ecological Research: Theory, Data, and Methods*. September 14-16, 2009. Estes Park, CO.
- 2009 Roy Chowdhury, R. Co-organizer and participant. LTER All Scientists Meeting Workshop: *How Is Urbanization Making America Socially and Ecologically homogenous?* September 14-16, 2009. Estes Park, CO.
- 2009 Roy Chowdhury, R. *Cartographies of exemption: Zoning and Land cover in south Florida*. February 18, 2009. School of Geographical Sciences and School of Sustainability, Arizona State University, Tempe, AZ.
- 2009 Roy Chowdhury, R. Co-organizer and participant. LTER Workshop: *Socio-ecological dynamics of residential landscapes: A multi-site collaboration*. February 18-19, 2009. Arizona State University, Tempe, AZ.
- 2008 Roy Chowdhury, R. *Smallholder land management, forest successions and environmental history in southern Mexico*. Workshop in Political Theory and Policy Analysis, Indiana University. Bloomington, IN. Colloquium, Nov 10, 2008.
- 2008 Roy Chowdhury, R. Invited participant. *Incorporating ecosystem services into decision-making: Developing a vision*. A Conference on Ecosystem Services (ACES): Dynamic systems, science and decisions, Massachusetts Institute of Technology, Cambridge, MA.
- 2008 L. Ogden and R. Roy Chowdhury. *FCE-LTER Human Dimensions Research*. Florida-Coastal Everglades Long-Term Ecological Research All Scientists Meeting. Miami, FL.
- 2007 Roy Chowdhury, R. *Understanding anthropogenic landscape change in the southern Yucatán peninsula, Mexico*. Sierra Club. Miami, FL.
- 2007 Roy Chowdhury, R. *Linking social and ecological systems: Research agendas and methods*. Land Use and Environmental Change Institute (LUECI) and the Department of Geography, University of Florida. Gainesville, FL.
- 2007 Roy Chowdhury, R. *Linking remote sensing with spatial models for land change analysis*. Center for Southeastern Tropical Advanced Remote Sensing (CSTARS) Seminar Series, University of Miami. Coral Gables, FL.
- 2007 L. Ogden, H. Gladwin and R. Roy Chowdhury. *Florida-Coastal Everglades: Social Science Approaches to Changing Landscapes*. Meeting on Developing and Evaluating Social Science Approaches for the Baltimore Ecosystem Study LTER: Local Focus, Global Thinking. Baltimore, MD.
- 2007 L. Ogden, G. Hollander and R. Roy Chowdhury. *FCE-LTER Human Dimensions Research*. Florida-Coastal Everglades Long-Term Ecological Research All Scientists Meeting. Miami, FL.
- 2006 Roy Chowdhury, R. *An analysis of interdisciplinary doctoral programs focused on the environment*. Center for Ecosystem Science and Policy (CESP) Fall Retreat, University of Miami. Coral Gables, FL.

- 2006 Roy Chowdhury, R. *Land change science in the southern Yucatán, Mexico*. Gamma Theta Upsilon (Geography Undergraduate Honor society), University of Miami. Coral Gables, FL.
- 2005 Roy Chowdhury, R. *Analyzing tropical deforestation with GIS and spatial econometric techniques*. Marine and Atmospheric Science Program, Course in Economics of Natural Resources, University of Miami. Coral Gables, FL.
- 2004 Roy Chowdhury, R. *Institutional policy, smallholder land use and ecological change: Integrated land change science in the southern Yucatán, Mexico*. Environmental Studies Seminar Series, Florida International University. Miami, FL.
- 2004 Roy Chowdhury, R. *Geographic information technologies in archaeological research*. Department of Anthropology, University of Miami. Coral Gables, FL.
- 2003 Roy Chowdhury, R. *Remote sensing and geographic information systems in medical/epidemiological research*. Miller School of Medicine, University of Miami. Coral Gables, FL.
- 2002 Turner II, B.L. and R. Roy Chowdhury. *Land cover and land use change in the southern Yucatán peninsular region*. Workshop: Linking Household and Remotely Sensed Data: Methodological and Practical Problems, East-West Center, University of Hawaii. Honolulu, Hawaii.
- 2002 Roy Chowdhury, R. *Conservation institutions and land use change in the southern Yucatán peninsular region*. M.A. GIS program research/speaker series, Clark University. Worcester, MA.
- 1999 Roy Chowdhury, R. *A spatially explicit model of landscape change in the southern Yucatán peninsular region*. M.A. GIS program research/speaker series, Clark University. Worcester, MA.
- 1999 Roy Chowdhury, R. *Remote Sensing for Land Cover Change in the SYPR*. Part 2 of *Advance in Integrated Land Analysis: The LCLUC-SYPR in Four Papers*. Annual Meeting of the Center for Integrated Studies in Global Change, Carnegie Mellon University. Pittsburgh, PA.
- 1999 Geoghegan, J. P. Klepeis, Y. Ogneva-Himmelberger, R. Roy Chowdhury, B. L. Turner II and C. Vance. *Modeling Tropical Deforestation: Comparing Survey and Satellite Data*. International workshop: Current Progress in Quantifying Spatially Explicit Causes and Effects of Land-Use/Cover Change: Examples from Different Parts of the World. Wageningen, the Netherlands.

TEACHING AND ADVISING ACTIVITIES

Courses at Indiana University (Fall 2008-Spring 2011):

- G338/538– Introduction to Geographic Information Systems (Fall 2008, Fall 2010)
- G438/539– Advanced Geographic Information Systems (Spring 2009, Spring 2011)
- G461/561– Human Dimensions of Global Environmental Change (Spring 2009, Fall 2010)
- G478/578– Global Change, Food and Farming Systems (Fall 2009, Spring 2011)
- G460 – Internship in Geographical Analysis
- G830 – Directed Readings
- G850 – Directed Masters Thesis Research

Courses at the University of Miami (Fall 2003-Spring2008):

- GEG 199 – Introduction to Geographic Information Systems
- GEG 391/591 – Intermediate Geographic Information Systems
- GEG 515 – Seminar: Human Dimensions of Global Environmental Change
- GEG 545/ECS 302 – Perspectives on Environmental Decisions
- GEG 545/525 – Independent Studies
- GEG 603 – Research Design

Students supervised (year indicates student has graduated from program):

1. Doctoral:

Nicholas Vaughn (chair). Geography, Indiana University
Michael Perkins (chair). Geography, Indiana University
John Marton. SPEA, Indiana University
Sara Minard. Anthropology, Indiana University
Meghan Buchanan. Anthropology, Indiana University
Katie Crosley. Environmental Science and Policy, University of Miami
Monique Hernandez (2008; chair). Interdepartmental Studies, University of Miami
Daniel Impoinvil (2006). Epidemiology, University of Miami

2. Masters:

Nina Hensarling (chair). Business and Latin American Studies, Indiana University
Scott Hetrick (chair). Geography, Indiana University
Cameron Meyer. Geography, Indiana University
Edgar Espinoza (2008). Geography, University of Miami
Ian Berdie (2008). Geography, University of Miami
Bob Muscarella (2007). Biology, University of Miami
Chris Boland (2007). Marine Affairs, University of Miami

3. Undergraduate:

Lara Hamburger (2010). Geography, Indiana University
Dominique Werboff (2006; chair). Geography, Ecosystem Science & Policy, University of Miami
Samantha Perry (2004). International Studies, University of Miami

PROFESSIONAL MEMBERSHIPS AND SERVICE

Professional Memberships

The Association of American Geographers (AAG)
International Association for Landscape Ecology (US-IALE)
Society for Conservation Biology (SCB)
International Association for Society and Natural Resources (IASNR)

Professional Service: National/International

- 2011 Roy Chowdhury, R. Panel session organizer. *Beyond Yellowstone: The future of conservation III*. Annual meeting of the Association of American Geographers, April 12-16, 2011. Seattle, WA.
- 2010- Chair, Human Dimensions of Global Change (HDGC) Specialty Group, Association of American Geographers
- 2010- Member, International Committee, Long-Term Ecological Research Network
- 2010- North American Regional Working Group, International Long-Term Ecological Research Network
- 2010 Roy Chowdhury, R. Paper session organizer and chair. *Urban Vegetation and Socio-Ecological Contexts: Heterogeneity, Trends and Implications*. Global Land Project and Urbanization and Global environmental Change Joint Science Meeting, October 15-19, Arizona State University, Tempe, AZ.
- 2008- Co-leader, Human Dimensions research group, Florida-Coastal Everglades Long-Term Ecological Research (LTER) project.
- 2008- Councillor, Cultural and Political Ecology (CAPE) Specialty Group, Association of American Geographers.
- 2010

- 2009 Organizing Committee, ESA Millennium Conference 2009: *Water-Ecosystem Services, Drought and Environmental Justice*. November 9-12, 2009, Athens, GA.
- 2008 Expert judge, Student paper presentation competition, West Lakes Division, Association of American Geographers. Indiana University, Nov. 2008.
- 2007 Roy Chowdhury, R. Paper session organizer. *Social and ecological systems I: Theoretical foundations*. Annual meeting of the Association of American Geographers, San Francisco, CA.
- 2007 Roy Chowdhury, R. Paper session organizer. *Social and ecological systems II: Theoretical and empirical bridges*. Annual meeting of the Association of American Geographers, San Francisco, CA.
- 2007 Roy Chowdhury, R. Paper session organizer and chair. *Social and ecological systems III: Empirical approaches*. Annual meeting of the Association of American Geographers, San Francisco, CA.
- 2006-2007 Lead Organizer, Compilation of Interdisciplinary Social Science Curricula on the Environment, Social Sciences Working Group of the Society for Conservation Biology (SSWG-SCB) Curriculum Committee.
- 2006 Roy Chowdhury, R. Paper session organizer and chair. *Linking social and ecological systems III: Livelihoods*. Annual meeting of the Association of American Geographers, Chicago, IL.
- 2006 Roy Chowdhury, R. Paper session chair. *Linking social and ecological systems V: Infrastructure and connectivity*. Annual meeting of the Association of American Geographers, Chicago, IL.
- 2005- Social Sciences Working Group member, Society for Conservation Biology.
- 2004 Roy Chowdhury, R. Paper session organizer and chair. *The contested commons: Understanding landscape, livelihood and institutional transformations in Calakmul, southern Mexico*. Biennial meeting of the International Association for the Study of Common Property, Oaxaca, Mexico.

Professional Service: Proposal Reviewing

National Science Foundation, National Geographic Society

Professional Service: Book/Journal Reviewing

Environmental and Planning A, Ecology and Society, Landscape and Urban Planning, Annals of the Association of American Geographers, Singapore Journal of Tropical Geography, Biotropica, University of Arizona Press

Professional Service: Department

- Indiana University: Organizer, Departmental Colloquium Series; Salary Committee; Undergraduate Program Committee; New Faculty Hires
- University of Miami: Strategic Plan, Travel Budget Guidelines, New Faculty Hires, GIS lab development (co-responsible), GIS Day planning, GIS jobs/internships advising (undergraduates)

Professional Service and Memberships: University

Indiana University

- Faculty Advisory Committee, Anthropological Center for Training and research in Global Environmental Change
- Faculty Advisory Committee, Workshop in Methods
- Faculty Affiliate, Center for the Study of Institutions, Population and Environmental Change
- Faculty Affiliate, Center for Research in Environmental Sciences

- Faculty Affiliate, Center for Research in Energy and the Environment
- Faculty Affiliate, Center for Latin American and Caribbean Studies
- Faculty Affiliate, Food Studies program
- Core Faculty, Human Dimensions of Global Environmental Change program
- Collaborator, CRES IGERT pre-proposal, 2009, 2010
- Collaborator and contributor, Science of Food Studies IGERT pre-proposal, 2010
- GIS Day Planning Committee (2008, 2009)
- Expert judge, student research projects, Indiana Junior Academy of Science research presentation competition (Nov 7, 2008)

University of Miami

- Faculty Advisory Committee and faculty affiliate, Abess Center for Ecosystem Science and Policy, University of Miami
- Doctoral program design committee, Ph.D. program proposal in Ecosystem Science and Policy, University of Miami
- Affiliate Faculty, Center for Latin American Studies, University of Miami
- Governing Board, Observatory on Structures and Institutions of Inequality in Latin America, Center for Latin American Studies (PI M. Blofield, The Ford Foundation [\$300,000]), University of Miami
- Interdisciplinary Research Group, Center for Latin American Studies, University of Miami
- Judge, student research projects, Citizens Board Research and Creativity Forum, University of Miami
- Advisor on project spatial analysis, J. Szapocznik (PI), *Built environment and Hispanic elders' health*. University of Miami. Funded by the National Institute on Aging, 07/01/06 – 04/30/09.
- Advisor on project spatial analysis, J. Szapocznik (PI), *Hispanics, built environment and metabolic syndrome*. University of Miami. Funded by the National Institute of Diabetes and Digestive and Kidney Diseases, 03/15/07 – 02/28/12.

Professional Service: Community Outreach

- 2010 Interview and discussion of Roy Chowdhury's land use research in southern Mexico profiled in PNAS (2010) article. Bloomington Community Spanish Language Radio Program, Hola Bloomington, Friday, May 7, 2010. Podcast available at <http://wfhb.org/news/holabloomington>
- 2008- Urban tree canopy cover mapping, City of Bloomington, Indiana.
- 2008 Expert judge, student research projects, Indiana Junior Academy of Science research presentation competition
- 2007- Collaborator. Florida-Coastal Everglades Long-Term Ecological Research Schoolyard (K-12 outreach).
- 2007 Panelist. *India: La proxima potencia mundial?* Univision TV Program Oppenheimer Presenta #159.
- 2005 Biodiversity and soil analysis data dissemination. Calakmul municipality, Campeche, Mexico.
- 2004 Parcel land use/cover cartography dissemination. Calakmul municipality, Campeche, Mexico.
- 2004 Ejido land use/cover cartography dissemination. Ejido councils, Calakmul municipality, Campeche, Mexico.
- 2002 Municipal/reserve land use/cover cartography dissemination. Calakmul Biosphere Reserve Technical Advisory Committee, Campeche, Mexico.
- 2001 Assisted cartographic development. CENECAM-Bosque Modelo Calakmul. Campeche, Mexico
- 2001 Cartographic development. Proposal to municipal government for ecotourism development in the community of Veinte de Noviembre, Calakmul municipality.
- 2000- Participated in various community-based sustainable development workshops. Calakmul
2006 municipality, Campeche, Mexico