

Geography

Tania del Mar López Marrero Joins Rutgers Geography

Tania del Mar López Marrero joins us as an Assistant Professor, a joint appointment with the Department of Latino and Hispanic Caribbean Studies. Tania holds a BSc in Environmental



Sciences from the University of Puerto Rico and a MSc and a PhD in Geography from The Pennsylvania State University.

Her research interests include the relationships between humans and the environment, such as vulnerability, adaptive capacity and resilience to natural hazards,

ecosystem services and drivers of ecosystem change, and land use and land cover change. Based on the belief that there are

multiple ways of learning and means of conducting research, Tania uses a variety of approaches, methods and techniques—primarily participatory methods along with a variety of techniques such as Spatial Analysis, and tools such as Geographic Information Systems.

One component of the application of geographic techniques in her research is apparent in her cartographic representations of environmental data. Drawing on her expertise in cartography and GIS, she designed the maps and graphics for *Atlas Ambiental de Puerto Rico (The Environmental Atlas of Puerto Rico)* (San Juan, Puerto Rico: U Puerto Rico Press, 2006), co-authored with Nancy Villanueva Colón, Tania's former professor at the University of Puerto Rico. This book is being used in many of Puerto Rico's schools and universities to teach environmental issues as well as geography.

Faculty Awards and Appointments

Robin Leichenko: Committee on Climate Change and Social and Political Stresses, National Academy of Sciences

- Editorial board, *Economic Geography*. 2011-2013
- Director, The Initiative on Climate & Society
- Contributing Author/Expert Reviewer, Intergovernmental Panel on Climate Change, Special Report on Extreme Events, . 2010-2011.

James Mitchell: Research Mentor of the Year Award, Aresty Center for Undergraduates, Rutgers University, 2010-11.

David Robinson: Member, Climate and Atmospheric Sciences Standing Committee, NJ Department of Environmental Protection.

Kevin St Martin: Science and Statistical Committee, New England Fishery Management Council, 2011-2013.

Joanna Regulska: Vice-President, International and Global Affairs, Rutgers University

- Doctor Honoris Causa, Tbilisi State University (Oct 2011)

Laura Schneider: Director, Center for Latin American Studies

Richard Schroeder: Rutgers Graduate School Teaching Award, 2010-11.

Michael Siegel & Peter Wacker, NJ Studies Academic Alliance Author's Award (Sept 2010) for Mapping New Jersey

Mike also received a 2010 Award of Recognition from the New Jersey Historical Commission .

Faculty Grants 2011

Robin Leichenko: Barnegat Bay Partnership, "Economic Vulnerability & Adaptation to Climate Hazards and Climate Change: Building Resilience in the Barnegat Bay Region"

David Robinson: Updates to Snow Cover Extent and Snow Depth Products. NOAA.

- Tracking and Interpreting of NJ Weather. NJ OEM
- NJFireNet: USDA Forest Service.

Initiative on Climate & Society

Under the directorship of Robin Leichenko, the Initiative on Climate and Society joined the Geography Department effective July 1, 2011. <http://climatesociety.rutgers.edu/>

Geography Welcomes A New Chair!

Richard Schroeder was elected chair of the School of Arts and Sciences Geography Department effective July 1, 2011.

Tania believes that research should benefit society, especially disadvantaged groups. She seeks to share research findings with the communities in which she works by incorporating educational materials and workshops for the benefit of stakeholders, as well as to peers. Communities and individual participants should, in Dr. López Marrero's view, know how much their participation contributes to the research. They should be aware of the researcher's gratitude. Growing up in the central mountains of tropical Puerto Rico, Tania is very connected with nature and enjoys gardening, nature photography, and sounds of nature recording. She also enjoys Isabel Allende books, and collecting folk art. In moving to Rutgers, Tania plans to continue her cross-disciplinary research with a new group of very active peers, even if it is a bit colder than home.

Faculty Publications

Birkenholtz

- Birkenholtz, T. 2011. Full Cost Recovery; producing differentiated water collection practices and responses to centralized water networks in Jaipur, India *Environment and Planning A* 42
- Birkenholtz, T. (In Press). Network Political Ecology: Method and theory in climate change vulnerability and adaptation research. *Progress in Human Geography*.
- Birkenholtz, T. (In Press). On the Network, Off the Map: Developing inter-village and intra-gender differentiation in rural water-supply. *Environment and Planning D: Society & Space*.

Leichenko

- Thomas, A. and Leichenko, R. (forthcoming) Adaptation through Insurance: Lessons from the U.S. National Flood Insurance Program. 2011. *International Journal of Climate Change Strategies and Management*, Vol 3
- Greenwood, D. and R. Leichenko. 2011 (forthcoming). Community-Supported Agriculture: Providing Healthy Food and Sustainable Urban Living. In W. Dando (ed.) *Food and Famine*, Vol 1. ABC-CLIO
- Ledermann, S.T. and R. Leichenko. 2011 (forthcoming). Organic Agriculture: A Sustainable Revolution Changing Poverty and Inequality in the Developing World. In W. Dando (ed.) *Food and Famine*, Vol 1. ABC-CLIO
- Vancura, P. and R. Leichenko. Poverty. 2011 (forthcoming). In T. Garrison (Ed.) *Encyclopedia of United States Indian Policy and Law*. Congressional Quarterly Press.
- Leichenko, R., K. O'Brien, and W. Solecki. 2010. Climate Change and the Global Financial Crisis: A Case of Double Exposure. *Annals of the Association of American Geographers*.
- Leichenko, R. Climate Change and Urban Resilience. 2011 *Current Opinion in Environmental Sustainability*, Vol 3.
- Rosenzweig, C., Solecki, W. Blake, R., Bowman, M., Faris, C., Gornitz, V., Horton, R., Jacob, K. LeBlanc, A., Leichenko, R., Linkin, M., Major, D., O'Grady, M., Patrick, L., Sussman, E., Yohe, G., Zimmerman, R. 2011. Developing coastal adaptation to climate change in the New York City infrastructure-shed: process, approach, tools, and strategies. *Climatic Change* 106.
- Solecki, W, Leichenko, R., O'Brien K. 2011. Climate Change Adaptation Strategies and Disaster Risk Reduction in Cities: Connections, Contentions, and Synergies. *Current Opinion in Environmental Sustainability*. Vol 3.

López-Marrero

- López-Marrero, T. and P. Tschakert. 2011. From Theory to Practice: Enhancing Resilience to Floods in Exposed Communities. *Environment and Urbanization* 23(1)
- López-Marrero, T. and others. 2011. "El Yunque Ecosystem Services" Fact Sheets and Guides series. Developed in collaboration with the USDA Forest Service, Southern Research Station; available online at www.interfacesouth.org/projects/el-yunque.

Mitchell

- Mitchell, James K. Review of Craig E. Colten, (Forthcoming 2011) Perilous place, powerful storms. in the *Journal of Historical Geography*.
- Mitchell, James K. and James M. Jeffers. (Forthcoming 2011) "The Changing Environment", in *Wilderness Medicine*, 6th Ed., ed. Paul S. Auerbach, Mosby Year Book Inc.
- Mitchell, James K. 2011 (forthcoming). "Potentials for a broader theory of economic recovery: Commentary on 'Towards a theory of economic recovery from disasters' by Stephanie Chang and Adam Rose," Theory of Disaster Recovery Workshop, U North Carolina at Chapel Hill November 11-13, 2010.

Rennermalm

- Rennermalm, A.K., Nordbotten, J.M., Wood, E.F. 2010 Hydrologic variability and its influence on long-term peat dynamics. *Water Resources Research*, vol. 46

Robinson

- Decker, S.G. & D.A. Robinson (in press). Unexpected high winds in northern New Jersey: A downslope windstorm in the presence of modest topography. *Weather and Forecasting*.
- McDonnell, J., L. Bovitz, C. Ferraro, R. Lyons & D. Robinson 2011 (in press) How to increase global environmental awareness by hosting a climate and environmental change teen summit. *Green Teacher*
- Brown, R.D. & D.A. Robinson, 2011. Northern Hemisphere spring snow cover variability and change over 1922-2010 including an assessment of uncertainty. *The Cryosphere*, 5.
- Davi, N., G. Jacoby, K. Fang, J. LI, R. D'Arrigo, N. Baatarbileg & D. Robinson (2010). Reconstructing drought variability for Mongolia based on a large-scale tree-ring network: 1520-1993. *J of Geophysical Research - Atmospheres*, 115
- Ghatak, D., A. Frei, G. Gong, J. Stroeve & D. Robinson 2010. On the emergence of an Arctic amplification signal in terrestrial Arctic snow extent. *J of Geophysical Research - Atmospheres* 115.

Faculty Publications (continued)

- DeAngelis A., F. Dominguez, Y. Fan, A. Robock, M.D. Kustu & D. Robinson (2010) Evidence of enhanced precipitation due to irrigation over the Great Plains of the United States. *J of Geophysical Research*. 115
- Choi, G., D.A. Robinson & S. Kang (2010) Changing Northern Hemisphere snow seasons. *J of Climate*, 23
- Hall, D.K. & D.A. Robinson 2011 (in press). Global Snow Cover, in *Satellite Image Atlas of Glaciers of the World*, R.S. Williams, Jr. and J.G. Ferrigno, eds., USGS Professional Paper 1386.
- Robinson, D.A. 2011 The 2009-2010 snow season. *Weatherwise*, 64
- Hall, D.K., C. Fuhrmann, L.B. Perry, G.A. Riggs, D.A. Robinson & J.L. Foster 2010 A comparison of satellite-derived snow maps with a focus on ephemeral snow in North Carolina. Proceedings of the 67th Eastern Snow Conference, 8-10 June 2010, Hancock, MA.
- Robinson, D.A. 2010 The 2008-09 snow season. *Weatherwise*, 63
- Squires, M.F., J.H. Lawrimore, R.R. Heim Jr., D.A. Robinson, M.R. Gerbush & T.W. Estilow 2010 Development of regional snowfall indices. Proceedings of the 25th Conference on International Interactive Information and Processing Systems for Meteorology, Oceanography and Hydrology. Atlanta, GA, American Meteorological Society.

St. Martin

- Murry, G, T. Johnson, B. McCay, M. Danko, K. St. Martin, and S. Takehashi. "Cumulative Effects, Creeping Enclosure, and the Marine Commons of New Jersey" *International Journal of the Commons* 4(1): 367-389.

Schneider

- Neeti, N., J.Rogan, Z. Christman, R. Eastman, M. Millones, L. Schneider, D.Nickl, B.Schmook and B.L Turner. Mapping seasonal trends in vegetation using AVHRR-NDVI time series in the Yucatan peninsula, Mexico. *Remote Sensing Letters* (Forthcoming 2011).
- Vandecar, K., D.Lawrence, D. Richards, L. Scheiner, J. Rogan and B. Schmook. 2010 *Response of dry tropical forest to Hurricane Dean in the southern Yucatan Peninsula: species-level impacts*
- Rogan J., L. Schneider, Z. Christman, M.Millones, D.Lawrence and B. Schmook. 2011 (forthcoming) *Hurricane Disturbance Mapping using MODIS EVI Data in the South Eastern Yucatan, Mexico* .

Schroeder

- *Africa after Apartheid: South American Capital, Race and Nation in Tanzania*. 2011 (forthcoming) Indiana University Press.
- 2010 Schroeder, R. "Tanzanite as Conflict Gem: Certifying a Secure Commodity Chain in Tanzania." *Geoforum* 41

Graduate Student News

Mark Barnes: Graduate Program in Geography Teaching Excellence award

Monalisa Chatterjee: 2011 Gilbert F. White Award sponsored by the AAG's Hazards Specialty Group

James Jeffers: Rutgers Graduate School Research Award for 2010-11

Samuel Ledermann: Graduate Program in Geography Graduate Teaching Excellence Award

Debby Scott: IGERT Graduate Training Fellowship, Renewable and Sustainable Fuels; Member, NSF-sponsored team of social scientists, Collaborative Event Ethnography, 10th Conference Parties, Convention on Biological Diversity (CBD), Nagoya, Japan, Oct 2010.

Sean Tanner: James J. Parsons PhD Fieldwork Award of the Conference on Latin Americanist Geographers

Amelia Duffy-Tumas: AAG Africa SG best student paper award

(2011); Language study grant, Center for African Studies (Wolof, Senegal, Summer 2011), GSNB Pre-dissertation research funding and travel award

Luke Drake GSNB Pre-dissertation research funding and travel award; AAG Urban Geography SG travel award

Abidah Setyowati United Nations Development Program's Asia-Pacific Human Development Fellowship & the National Science Foundation Dissertation Development Fellowship

John Legrid GSNB pre-dissertation travel award

Alison Horton GSNB pre-dissertation travel award & America's Unofficial Ambassadors Scholarship Mosaic Award

Kimberly Thomas Research/Travel Award, Rutgers South Asian Studies Dept.

PhDs Awarded 2010-2011

- Elizabeth Barron (10/10)
- Monalisa Chatterjee (10/10)
- Dinali Fernando (10/10)
- Rosana Grafals-Soto (10/10)

MA/MS Awarded 2010-2011

- Carl Figueriredo (1/11)
- Rachel Sutton
- Peter Vancura (1/11)
- Irene Zager

2011-12 Speakers Series

Sep 16 D. Robinson & J.K Mitchell (Geography, Rutgers) Hurricane Irene Symposium

Oct 10 B. Davidson, US Bureau Labor Statistics, Understanding Current Employment Statistics Data

Nov 10 M. Kwan, Social & Behavioral Sciences, Ohio State Integrating Geographical Information System Tech-

nology with Qualitative Research and Critical Social Theory

Dec 2 R. Grant, Urban Studies, U Miami, Mapping the Real Informal Economy: Global Circuits of Electronic Waste (e-waste) in the Millennium City of Accra, Ghana

Jan 27 D. Alsdorf, Earth & Planetary Sciences, Ohio State) New Remote

Sensing Technologies for Monitoring Surface Water Resources

Feb 10 B.Bradley, Environmental Conservation, U Mass, Predicting Plant Invasions Under A Changing Climate

Apr 27 E. Svendsen, US Forest Service, Northern Research Stn., Civic Environmental Stewardship as a Form of Governance in New York City

Undergraduate Program

R.U.G.S.

Rutgers Undergraduate Geography Society
Upcoming meetings posted on facebook!
georugs@eden.rutgers.edu

James V. Ciccone, Scott F. Jablonski & Latoya Jones winners of the 2011 A. H. Clarke award in recognition of outstanding academic achievement by undergraduate geography majors

Graduate Student Publications

Mioduszewski, John & X. Yu, V Morris, C. Berkowitz & J. Flaherty. "In-situ monitoring of trace gases in a non-urban environment," *Atmospheric Pollution Research*, 2, 89-98 (doi: 10.5094/Apr.2011.011) , 2011

Siebert, Asher & M. N. Ward, "Future Occurrence of Threshold-Crossing Seasonal Rainfall Totals: Methodology and Application to Sites in Africa", *Journal of Applied Meteorology and Climatology*, 50, 560-578, 2011

Thomas, Adelle. & Leichenko, R. Adaptation through Insurance: Lessons from the U.S. National Flood Insurance Program. 2011. *International J Climate Change Strategies and Management*, Vol 3 (forth.).

Ledermann, S.T. & R. Leichenko. 2011. Organic Agriculture: A Sustainable Revolution Changing Poverty and Inequality in the Developing World. In W. Dando (ed.) *Food and Famine, Volume 1*. ABC-CLIO (a merger of Greenwood Press, Praeger, and Libraries Unlimited) (forth.).

Vancura, P. & R. Leichenko. Poverty. 2011. In T. Garrison (Ed.) *Encyclopedia of United States Indian Policy and Law*. Congressional Quarterly Press (forth.).

Lu, Jacqueline W.T. , Svendsen, Erika S., **Campbell, Lindsay K.**, Greenfeld, Jennifer, Braden, Jessie, King, Kristen L., & Falxa-Raymond, Nancy. 2010. "Biological, social, and neighborhood design factors in young street tree mortality in New York City." *Cities and the Environment* 3(1).

Rodríguez, J. P., K. M. Rodríguez-Clark, J. E. M. Baillie, N. Ash, J. Benson, T. Boucher, C. Brown, N. Burgess, B. Collen, M. Jennings, D. A. Keith, E. Nicholson, C. Revenga, B. Reyers, M. Rouget, T. Smith, M. Spalding, A. Taber, M. Walpole, **Zager, I.** & T. Zamin (2011) Establishing IUCN Red List criteria for threatened ecosystems. *Conservation Biology* 25: 21-29.

Zager, I. & F. Carrasquel. (2010) Estado de amenaza de los ecosistemas terrestres de la isla de Margarita, estado Nueva Esparta. In: J. P. Rodríguez, F. Rojas-Suárez & D. Giraldo Hernández (eds.). Libro Rojo de los Ecosistemas Terrestres de Venezuela. Provita, Shell Venezuela, Lenovo (Venezuela). Caracas, Venezuela.

Zager, I. & F. Carrasquel. (2010) Conversión de bosques en la Reserva Forestal Sipapo, estado Amazonas. In: J. P. Rodríguez, F. Rojas-Suárez & D. Giraldo Hernández (eds.). Libro Rojo de los Ecosistemas Terrestres de Venezuela. Provita, Shell Venezuela, Lenovo (Venezuela). Caracas, Venezuela.

Zager, I. & F. Carrasquel. (2010) Conversión de los bosques y zonas áridas del centro-norte del estado Falcón. In: J. P. Rodríguez, F. Rojas-Suárez & D. Giraldo Hernández (eds.). Libro Rojo de los Ecosistemas Terrestres de Venezuela. Provita, Shell Venezuela, Lenovo (Venezuela). Caracas, Venezuela.
Lawson, Laura, **Luke Drake**, and Ena Kumar. "How much food can a community garden grow? Exploring ideals, myths, and potential impacts of community gardens as urban agriculture." *In City farms to city gardens: Farm to market in urban agriculture*. Edited by Alfonso Morales.



A fond farewell!

After over 25 years with the Geography Department, Elizabeth Ann Abbatemarco (aka Betty Ann) is leaving us to hang out with five grandchildren & a new puppy. She leaves some mighty big shoes to fill: a superhero to our students—able to smooth any problem with a single phone call—and for the rest of us, she's been a "true north," and a lot of fun. Betty Ann, you will be expected at all our theme parties!

Richard Schroeder, Department Chair and Undergraduate Program Director

Kevin St. Martin, Graduate Program Director

Mike Siegel, Cartographer/Newsletter

Elizabeth Ann Abbatemarco, Administration

Theresa Kirby, Newsletter

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