

**Laura C. Schneider, Ph.D.**

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**Professional Experience**

- 2012- Graduate Program Director, Department of Geography, *Rutgers, The State University of New Jersey.*
- 2011- Associate Professor, Department of Geography, *Rutgers, The State University of New Jersey.*
- 2011-2012 Director, Center for Latin American Studies, *Rutgers, The State University of New Jersey.*
- 2010-2011 Acting Director, Center for Latin American Studies. *Rutgers, The State University of New Jersey.*
- 2005-2011 Assistant Professor. Department of Geography. *Rutgers, The State University of New Jersey.*
- 2004 Post-Doctoral Research Associate. Global Environmental Change Initiative. Geological Sciences, *Brown University.*
- 2000 -2003 Research Associate. George Perkins Marsh Institute, Graduate School of Geography, Land-cover and Land-use change (LCLUC) in the Southern Yucatán Peninsular Region (SYPR). *Clark University.*
- 1999 Research Assistant. Graduate School of Geography, 1999. Land-use change in the Ipswich watershed. *Clark University.*
- 1994 - 1998 Research Assistant. Center for Energy and Environmental Studies: Landscape ecology in Northeast Brazil, GIS and Remote Sensing. *Princeton University.*
- 1991 - 1993 Research Assistant. Barro Colorado Island, Panama. *Smithsonian Tropical Research Institute.*

**Education**

- 2004 Ph.D., Graduate School of Geography, Clark University. *Understanding bracken fern invasion in Southern Yucatán Peninsular Region through Land Change Science.*  
Dissertation Advisor: B. L. Turner II
- 1992 Bachelor of Science – Biology. Universidad Nacional de Colombia (Bogotá).  
Facultad de Ciencias. Departamento de Biología.

## **Research and Teaching Specialties**

Land change science, biogeography, remote sensing, geographic information science (GIS), Latin America.

## **Publications**

### **Articles in Peer Reviewed Journals**

- 2014 Lerner, A., T. Rudel, **L. Schneider**, M. McGroody, D. Burbano and C. Mena. The spontaneous emergence of silvo-pastoral landscapes in the Ecuadorian Amazon: patterns and process. *Regional Environmental Change*, DOI 0.1007/s10113-014-0699-4
- 2013 McGroody, M., D. Lawrence, **L. Schneider**, J. Rogan, I. Zager and B. Schmook. Damage patterns after Hurricane Dean in the southern Yucatán: Has human activity resulted in more resistant forests. *Forest Ecology and Management*. 310, 812-820
- 2013 Rossi, E., J. Rogan and **L. Schneider**. Mapping forest damage in northern Nicaragua after Hurricane Felix (2007) using MODIS enhanced vegetation index data. *GIScience & Remote Sensing*, 50 (4): 385-399
- 2013 Cheng, D., Rogan, J., **L. Schneider** and M. Cochrane. 2013. Evaluating MODIS active fire products in Subtropical Yucatan Forest. *Remote Sensing Letters*. 4 (5): 455-464.
- 2013 N. Cuba, J. Rogan, Z. Christman, C. A. Williams, **L. C. Schneider**, D. Lawrence and M. Millones . *Modelling dry season deciduousness in Mexican Yucatán forest using MODIS EVI data (2000–2011)*. 2013. *GIScience & Remote Sensing*, 50 (1), 26-49
- 2012 Márdero S., Nickl E., Schmook B., **Schneider L.**, Rogan J., Christman Z. and Lawrence D. (2012). Sequías en el Sur de la Península de Yucatán: Análisis de la variabilidad anual y estacional de la precipitación/ Droughts in the Southern Yucatán Peninsula: Analysis of the annual and seasonal precipitation variability. *Investigaciones Geográficas*. 78:19-33.
- 2012 Neeti N., J. Rogan, Z. Christman, J.R. Eastman, M. Millones, **L. Schneider**, E. Nickl, B. Schmook, B. L. Turner II and B. Ghimire. Mapping seasonal trends in vegetation using AVHRR-NDVI time series in the Yucatán Peninsula, Mexico. Volume 3(5): 433-442. DOI: 10.1080/01431161.2011.616238
- 2011 Vandecar, K., D. Lawrence, D. Richards, **L. Schneider**, J. Rogan and B. Schmook. Response of dry tropical forest to Hurricane Dean in the southern Yucatán Peninsula: Species-level impacts. *Biotropica*. 43(6):676-684.
- 2011 Rogan J., **L. Schneider**, Z. Christman, M. Millones, D. Lawrence and B. Schmook. Hurricane Disturbance Mapping using MODIS EVI Data in the South-Eastern Yucatán, Mexico. *Remote Sensing Letters* 2(3): 259-267

- 2010 **Schneider L.C.** and N. Fernando. An untidy cover: Invasion of Bracken Fern in the shifting cultivation systems of Southern Yucatán, Mexico. *Biotropica* 42(1): 41-48.
- 2010 Uriarte, M., **L. Schneider** and T. Rudel. Land transitions in the tropics: Introduction and Synthesis. *Biotropica*. 42(1):1-2/59-62.
- 2010 Rudel, T., **L. Schneider** and M. Uriarte. Forest Transitions: An Introduction. *Land Use Policy*. 27:95-97.
- 2010 Geoghegan J., D. Lawrence, **L. Schneider** and K. Tully. Accounting for Carbon in Models of Land Use and Implications for Payments for Environmental Services: An Application to Southern Yucatán Peninsula Region. *Regional Environmental Change*. 10 (3): 247-260.
- 2010 Lawrence, D., K. Tully, C. Radel, B.Schmook and **L. C. Schneider**. Untangling a global decline in tropical forest resilience: constraints on the sustainability of shifting cultivation. *Biotropica* 42 (1):21-30.
- 2010 Whitmer, A., L. Ogden, J Lawton, P Sturner, PM Groffman, **L Schneider**, D Hart, B Halpern, W Schlesinger, S Raciti, N Bettez, S Ortega, L Rustad, STA Pickett, and M Killelea. 2010. The engaged university: providing a platform for research that transforms society. *Frontiers in Ecology and Evolution* 8 (6): 314 -321.
- 2009 Rudel T. K., **L. Schneider**, M. Uriarte, B.L. Turner II , R. DeFries, D. Lawrence, J. Geoghegan, S. Hecht, A. Ickowitz, E. F. Lambin, T. Birkenholtz, S. Baptista and R. Grau. Agricultural Intensification and Changes in Cultivated Areas, 1970-2005. *The Proceedings of the National Academy of Sciences*. 106:20675-20680
- 2006 **Schneider, L.C.** Invasive species and Land-use: The effect of land management practices on bracken fern invasion in the region of Calakmul, Mexico. *Journal of Latin American Geography*. 5(2): 91-107.
- 2006 **Schneider, L.C.** and J. Geoghegan. Land Abandonment in an Agricultural Frontier after a Plant Invasion: The Case of Bracken Fern in Southern Yucatán, Mexico. *Agricultural and Resource Economics Review*. 35(1):167-177
- 2004 **Schneider, L.C.** 2004. Bracken Fern (*Pteridium aquilinum* (L.) Kuhn) Invasion in Southern Yucatán Peninsular Region: A Case for Land-Change Science. *Geographical Review*. 94(2): 229-241.
- 2004 J. Geoghegan, **L. C. Schneider** and C. Vance. 2004. Temporal Dynamics and Spatial Scales: Modeling Deforestation in the Southern Yucatán Peninsular Region. *Geojournal* 61: 353-363.
- 2001 **Schneider, L.C.** and R. G. Pontius Jr. 2001. Modeling land-use change in the Ipswich watershed, Massachusetts, USA. *Agriculture, Ecosystems & Environment* 85(1-3): 83-94.

- 2001 **Schneider L. C.**, A. P. Kinzig, E. Larson and L. A. Solórzano. 2001. Method for spatially explicit calculations of potential biomass yields and assessment of land availability for biomass energy production in Northeastern Brazil. *Agriculture, Ecosystems & Environment* 84: 207-226.
- 2001 Pontius R. G. and **L. C. Schneider**. 2001. Land-use change model validation by a ROC method for the Ipswich watershed, Massachusetts, USA. *Agriculture, Ecosystems & Environment* 85(1-3): 239-248.
- 2001 B. L. Turner II, R. R. Chowdhury, D. Foster, J Geoghegan, E. Keys, P. Klepeis, D Lawrence, S. Manson, P. M. Mendoza, Y. Ogneva-Himmelberger, A. B. Plotkin, D. Pérez Salicrup, B. Savitsky, B. Schmook, **L. C. Schneider**, C. Vance and S. Cortina Villar. 2001. Deforestation in the southern Yucatan peninsular region: an integrative approach. *Forest Ecology and Management*, 154: 353-370

### Book Chapters:

- In Press Schneider, L., J. Rogan and B. Schmook. Relación de huracanes e incendios en bosques fragmentados de la región sur de la península de Yucatán, México: Ejemplo de las sinergias en sistemas socio-ecológicos. In: *Perspectivas Socio-Ecológicas sobre Cambios Globales en América Latina*. Ed.: K. Young and J. Postigo.
- 2014 Mardero, S., B. Schmook, Z. Christman, E. Nickl, L. Schneider, J. Rogan and D. Lawrence. Precipitation Variability and Adaptation Strategies in the Southern Yucatán Peninsula, Mexico: Integrating Local Knowledge with Quantitative Analysis. In: *International Perspectives on Climate Change: Latin American and Beyond*. Springer, pp: 189-201.
- 2008 **L.C. Schneider**. Plant Invasions in an Agricultural Frontier: Linking satellite, ecological and household survey data. In *Land Change Science in the Tropics: Changing Agricultural Landscapes*, A. Millington and W. Jepson eds. Kluwer publishers.
- 2004 S. S. Sader, R. Roy Chowdhury, **L.C. Schneider** and B. L. Turner II. 2004. Forest Change and human driving forces in Central America. In *Land Change Science: Monitoring, and Understanding Trajectories of Change on Earth's surface*. Gutman et al. eds. Kluwer Publishers. Pages: 57-76.
- 2004 R. Roy Chowdhury and **L. C. Schneider**. 2004. Land-Cover/Use in the southern Yucatán peninsular region, Mexico: Classification and Change Analysis. In *Integrated Land-Change Science and Tropical Deforestation in the Southern Yucatán: Final Frontiers*. B. L. Turner II, J. Geoghegan and D. Foster, eds. Oxford Geographical and Environmental Studies. Clarendon Press of Oxford University Press, pp 105-144.

- 2004 J. Geoghegan, **L. C. Schneider** and C. Vance. 2004. Spatially Explicit, Statistical Land-Change Models in Data-Poor Conditions. In *Integrated Land-Change Science and Tropical Deforestation in the Southern Yucatán: Final Frontiers*. B.L. Turner II, J. Geoghegan, and D. Foster, eds. Oxford Geographical and Environmental Studies. Clarendon Press of Oxford University Press, pp 247-269.
- 2003 B. L. Turner II, P. Klepeis and **L. C. Schneider**. 2003. Three Millennia in the Southern Yucatán Peninsular Region: Implications for Occupancy, Use, and "Carrying Capacity". In *Lowland Maya Area: Three Millennia at the Human-Wildland Interface*. A. GómezPompa, M. Allen, S. Fedick, and J. Jimenez-Osornio, eds. New York: The Haworth Press, pp. 361-387.
- 2002 J. Vadjunec, **L. C. Schneider** and B. L. Turner, 2002 Land-Change Science: The Contributions of Latin Americanist Geographers to Global Environmental Change Research. In *Latin America 21st Century: Challenges and Solutions*. G. Knapp Ed. University of Texas Press, pp 171-206.

#### **Editor Journal Special Issues:**

- 2010 Biotropica: *Land Use Transition in the tropics* (Co-editor with M. Uriarte)
- 2010 Land Use Policy: *Forest Transitions* (Guest Editor with T. Rudel and M. Uriarte)

#### **Research Reports and other publications.**

- 2009 **Schneider, L.C.** M. Alber, J. Moore, J. Onsted, R. Pontius, N. Sayre, and Jonathan Thompson. 2009. A Common Denominator: Modeling Land and Water Use Change in LTER sites. *White Paper, Long Term Ecological Research Network*. May 10th, 2009.
- 2009 Zimmerman J., F. N. Scatena, **L. C. Schneider**, Ted Gragson , Christopher Boone and J. Morgan Grove. 2009. Challenges for the Implementation of the Decadal Plan for Long-Term Ecological Research: Land and Water Use Change. Report of a Workshop. May 10th, 2009. LTER Network Office, the National Science Foundation and the University of Puerto Rico
- 2010 **L. C. Schneider**. Forest Land Use. *Encyclopedia of Geography*. B. Solomon, ed. London: Sage.
- 2007 **L.C. Schneider** "Invasive Species". In *The Encyclopedia of Environment & Society*. P. Robbins, ed. London: Sage, pp. 948-950.
- 2007 **L.C. Schneider**. "Research Methods". In *The Encyclopedia of Environment & Society*. P. Robbins, ed. London: Sage, pp. 1488-1493.
- 2000 E. Brondizio, R. DeFries, R. Laney, J. S. Latham, A. Leon, **L. C. Schneider**, P. Verburg, and S. J. Walsh. 2001. Land Use and Cover Change (LUCC) Report

Series nº 5: *Meeting in the Middle: The Challenge of Meso-Level Integration. Workshop Proceedings*. An International Workshop October 17-20, 2000. Ispra, Italy Edited by: W. J. McConnell and E. F. Moran.

- 2000 Pontius Jr, R.G. , L. Claessens, C. Hopkinson Jr, A. Marzouk, Ed Rastetter, **L. Schneider**, Joseph Vallino. 2000. Scenarios of land-use change and nitrogen release in the Ipswich watershed, Massachusetts, USA. In B Parks et al., editors. *Conference proceedings of the 4th international conference on integrating GIS and environmental modeling*. University of Colorado, CIRES.  
(<http://www.colorado.edu/research/cires/banff/pubpapers/165>)

### **Funded Research**

- 2010-2014 National Science Foundation. Dynamics of Coupled Natural and Human Systems. Spontaneous Silvopastoral Landscapes: Origins, Extent, and Ecological Significance in the Ecuadorian Amazon. **Co-PI** with Tom Rudel. \$566, 081.
- 2008- 2012 **Principal Investigator**. Gordon and Betty Moore Foundation. Ecosystem-level Response to Large Scale Natural Disturbance in Southern Yucatán: Evaluating Forest Resilience in Protected Areas. \$989,934.
- 2007 **Principal Investigator**. Gordon and Betty Moore Foundation. Workshop in Land use transitions in the tropics. \$15,000.
- 2005-2008 NASA- Land Use-Land Cover Change Program. Landscape Resilience-Vulnerability in the Southern Yucatan Peninsular Region. **Co-PI** with: B. L. Turner II, Deborah Lawrence, John Rogan, Ron Eastman and Hans Vester. \$280,000.
- 2005 Rutgers University-Research Council Grant. Office of Research and Sponsored Programs (ORSP). Understanding Plant Invasions in Mexico through Land Change Science. \$1,200.
- 2004 National Science Foundation. Long Term Ecological Research-Hubbard Brook Experimental Forest. Social Science Supplement. With: Steve Hamburg, John Mustard and Andrew Foster. Brown University. \$50,000.

### **Fellowships and scholarships**

- 2007 Livingston Fellowship. Global Futures Symposia. Livingston College. Scholar Invited: Dr. Lisa Curran, Yale University. April 26th.
- 2003 Clark University, Graduate School of Geography. Pruzer-Holzhauer Fellowship. Dissertation Writing Scholarship.
- 1998-2003 Clark University, Graduate School of Geography. Ph.D. Scholarship.

1991 Smithsonian Tropical Research Institute. Exxon and Intern Fellowships for Latin American biology students.

**Invited Presentations**

2012. University of Massachusetts. Department of Environmental Conservation, Seminar Series. Environmental Disturbances in the Mesoamerican Biological Corridor Calakmul-Sian Ka'an, Yucatán: Landscape responses. October 19.
- 2011 Efectos de perturbaciones ambientales y cambio climático sobre los bosques semi-decíduos del corredor biológico Calakmul-Sian Kaan, México. Keynote speaker. Coloquio sobre Bosques Tropicales: Su conservación y manejo ante el cambio global. *Centro de Investigación Científica de Yucatán, A.C.* September 13-14. Keynote speaker.
- 2011 Effects of disturbances on dry tropical forests: hurricanes and land-use in the Yucatan Peninsula, Mexico. *Clark University, Graduate School of Geography.* Speaker Series. February 13.
- 2010 Efectos de perturbaciones ambientales y cambio climático sobre los bosque secos tropicales: Estudio de caso - Península de Yucatán. Fourth National Forestry Symposium: Bosques, Energías Alternativas y Cambio Climático, Universidad Nacional de Colombia, Medellín. October 12-13. Keynote Speaker.
- 2009 Effects of Disturbances on Tropical Dry Forest: Land-Use and Hurricane effects in the Mesoamerican Biological corridor Sian Ka'an-Calakmul, Mexico. 2ND Joint USLTER/MEXLTER Hurricane Research Network meeting, Fairchild Tropical Botanic Garden, Miami, FL December 8-11, 2009
- 2009 Effects of disturbances on dry tropical forests: hurricanes and land-use in the Yucatan Peninsula, Mexico. Department of Geography, *York University.* Toronto, Canada. November, 10<sup>th</sup>.
- 2008 Modeling Socio-Ecological Systems: Learning from experiences in Land Change Science. Workshop Socio-ecological Systems in LTER. *Universidad de Puerto Rico.* Puerto Rico. December 16th.
- 2008 An untidy cover: Invasion of Bracken Fern in the shifting cultivation systems of Southern Yucatán, Mexico. MaGrann Conference: Land Use Transition in the Tropics. *Rutgers University and Columbia University.* April:
- 2007 Plant Invasions in an Agricultural Frontier: Linking Satellite, Ecological and Household Survey Data. *Columbia University,* Department of Ecology, Evolution and Environmental Biology, CERC Seminar. New York City. November.

- 2007 Plant Invasions in an Agricultural Frontier: The Case of Bracken Fern in Southern Yucatan Peninsular Region, Mexico". *University of Virginia*, Department of Environmental Studies, Undergraduate Seminar Series. Charlottesville, VA. October.
- 2007 Plant Invasions in an Agricultural Frontier: The case of bracken fern invasion in southern Yucatán Peninsular Region. *Hunter College, CUNY Department of Geography*. GeoSeminar Series. May.
- 2006 Plantas Invasoras y cambios de uso del suelo: el efecto del manejo del terreno en la invasión del helecho *P. aquilinum* en el sur de la Península de Yucatán. *Centro de Investigaciones Científicas de Yucatán (CICY)*. Unidad de Recursos Naturales. Mérida, Mexico. May.
- 2005 Understanding biodiversity: Plant Invasions in an Agricultural Frontier: Linking satellite, ecological and household survey data. The 6th Open Meeting of the *Human Dimensions of Global Environmental Change* Research Community. Bonn, Germany. October.
- 2005 Land abandonment of an agricultural frontier after bracken fern invasion: Linking satellite, ecological and household survey data. Brown Bag Seminar. Department of Human Ecology. *Rutgers University*. September.
- 2005 Land Change Science and Tropical Deforestation in Southern Yucatan. Graduate Geographers Project. Speaker Series. *Rutgers University*. April.
- 2005 Understanding plant invasions through land change science. Landscape Architecture Speaker Series. *Rutgers University*. April.
- 2004 200 Years of land-use change in central New Hampshire: Drivers and Implications. Spatial Structures in the Social Science Colloquia, *Brown University*. Providence, RI. December.

### **Invited Workshops**

- 2014 May 22-25. Frameworks for integrating social and ecological drivers of reforestation in the tropics. Leading Working group 2: Resilience. NSF, PARTNERS: People and Reforestation in the tropics: A network for education, research and synthesis.
- 2013 December 4-5. Monitoreo de perturbaciones: retos y propuestas para la generación de insumos necesarios a la modelación de la dinámica del carbono en los bosques de México. Proyecto Fortalecimiento REDD+, SEMARNAT, CONAFOR, UNDP, FAO. Presenter.
- 2013 May 28-29. Workshop on Pastures, Climate and Change and Sustainable intensification. An International Workshop", Center for International Tropical Agriculture and Rutgers University, Cali Colombia. Presenter.

- 2011 August 19-22. Fires in Western Amazonia: The Effects of Climatic, Social, Demographic, and Land Use Changes on Fire Incidence and Fire Hazard. Pucallpa, Peru. *Center for Environmental Research and Conservation, Earth Institute, Columbia University and Center for International Forestry (CIFOR)*. Organizers: Miguel Pinedo, Mary Menton, Elizabeth Silvestre and Victor Galarreta.
- 2009 December 8-11, 2nd Joint USLTER/MEXLTER hurricane research network meeting. *Florida Coastal Everglades, LTER*. Miami, FL. Organizers: Evelyn Gaiser and Bob Waide.
- 2009 September 13-16, Maps and Locals (MALS). Organizers: Pontius, Sayre and Kofinas. *Long Term Ecological Research, All Scientists Meeting*. Estes Park, CO.
- 2009 May 5-7. Cary Conference: Effective Communication of Science in Environmental Controversies. *Cary Institute of Ecosystems Services, Millbrook, New York*.
- 2009 April 1-3. Scenarios of Future Landscape Change. *Harvard Forest-Harvard University*. Petersham. MA. Organizers: D. Foster and J. Thompson.
- 2008 December 15-19. Designing Socio Ecological Systems studies in Long Term Ecological Research. Member of Steering Committee. *University of Puerto Rico, San Juan Puerto Rico*.
- 2006 September 20-23. The next 25 years of LTER. *Long Term Ecological Research- All Scientists Meeting*, Estes Park, CO.
- 2005 August 3-5. The current and future role of the social sciences in the LTER Network. *University of Georgia, Athens, Georgia*.
- 2002 September. Biodiversity and Land Change in the southern peninsular Yucatan region. *Land Cover and Land Use Change-NASA Nature Reserves Study Workshop*. Montana State University. Bozeman MT.
- 2000 October 17-20. Meeting in the Middle: The Challenge of Meso-Level Integration: An International Workshop on the Harmonization of Land Use and Land Cover Classification. *International Geosphere-Biosphere Program. Ispra, Italy*
- 1999 December 7-8. Current progress in quantifying spatially explicit causes and effects of land-use/cover change: examples from different parts of the world, International Geosphere-Biosphere Program and the Human Dimensions of Global Change Program. *Wageningen University, The Netherlands*.

### **Presentations at Professional Meetings**

Junio 2014. Sitio de medición intensiva de carbono de Kaxil-Kiuic: estrategia a largo plazo para la reducción de emisiones de gases de efecto invernadero. Andrade José L.; Dupuy Juan M.; Hernández-Stefanoni José L.; May-Pat Filogonio; Simá

José L.; Tun-Dzul Fernando; Us-Santamaría Roberth; Garruña-Hernández René; Caamal Juan P.; Tamayo Manuela; Arellano Fernando; Johnson Kristofer; Wayson Craig; Birdsey Richard; Santos Lucio; Olgún Marcela; López David; Maldonado Vanessa y **Schneider Laura**. *V Simposio Internacional del Carbono en Mexico. Merida, Yucatan.*

- March, 2014. Session: Secondary Forests and Agro-diverse Systems: Dynamics of Regrowth in the Neotropics (Co-organizer with T. Rudel). Paper presentation: Damage patterns after Hurricane Dean (2007) in the southern Yucatán: has human activity resulted in more resistant forests? In: *Global Land Project: 2<sup>nd</sup> Open Science Meeting*. Berlin.
- April, 2013. Land Systems Science Symposium: Environmental Dimension of Land Change. Environmental Disturbances and Land Systems: The effect of landscape configuration on hurricane damage in Southern Mexico. *Association of American Geographers Meeting*, Los Angeles, CA.
- June 2012, Symposium: Understanding fire regimes in tropical landscapes: Climatic, ecological, and socio-economic considerations. Presenter and Co-Chair. *Association of Tropical Biology and Conservation*, Bonito, Brazil.
- February 2012, Environmental disturbances and land systems: the effect of hurricanes and fire on current landscape configuration in Southern Yucatán. *Association of American Geographers Meeting*, New York, NY.
- June 2011. Effects of Disturbances on Tropical Semi-deciduous Forest: Land Use and Hurricane effects in the Yucatan Peninsula, Mexico. *Association of Tropical Biology and Conservation Conference*, Arusha Tanzania.
- April 2011. The Cultivation and Conservation of Biological Diversity. Panelist. Invited Session. *Association of American Geographers Meeting*, Seattle WA.
- April 2011. Using Local Knowledge to Understand Land Use/Land Cover Change at Long Term Ecological Research (LTER) Sites. Panelist. *Association of American Geographers Meeting*, Seattle WA
- October 2010. Hurricane Dean's impacts to Forests in the Mesoamerican Biological Corridor Sian Ka'an-Calakmul, Mexico: Understanding regional variability (Session Organizer). Co-authors: Z. Christman and I. Zager. *Global Land Project, Open Science Meeting*. Oct 17-19. Arizona State University, Phoenix Arizona.
- May 2010. Disturbances in the Mesoamerican biological Corridor, Calakmul-Sian Ka'an, Mexico: Landscape Disturbances. *Conference of Latin America Geographers CLAG*, Bogota DC. Colombia.
- April 2010. Advocacy in Biogeographic Science. Panelist. Invited Session. *Association of American Geographers Meeting*, Washington DC.

- April 2010. Disturbances in the Mesoamerican Biological Corridor Calakmul-Sian Ka'an, Mexico: Landscape responses. Session Organizer. *Association of American Geographers Meeting*, Washington DC.
- October 2009. Plant Invasions in Tropical Dry Forests: The landscape ecology of bracken fern invasion in Southern Yucatan, Mexico - Laura Schneider - Rutgers University. *Latin American IALE (International Association of Landscape Ecology) Conference*. Campos do Jordao, Brazil. Paper accepted but unable to attend the conference.
- June 2009. Accounting for Carbon in Models of Land Use and Implications for Payments for Environmental Services: An Application to Southern Mexico". J. Geoghegan, D. Lawrence and **L. Schneider**. *Annual Northeastern Agricultural and Resource Economics Association (NAREA) Conference*. Burlington, VT.
- March 2009. Assessing the spread of plant invasions in deciduous tropical forests. In organized session: Assessing Environmental Disturbance to Forest Ecosystems: Linking regional approaches to place based research. Chair, presenter and organizer of the session. *Association of American Geographers Meeting*, Las Vegas, NV.
- September, 2008. Key Environmental Change Issues in Latin America, Panelist Chair. Conference: Behind the Rain: Human Rights, Adaptation and Environmental Change in Latin America. *Center for Latin American Studies, Rutgers University*. Organizer: J. Marcano (Invited)
- July 2007. The effect of legacies on human-environment coupled systems: 200 years of land change dynamics in Grafton County, NH. *Hubbard Brook Ecosystem Study 44th Annual Cooperators' Meeting*. The Hubbard Brook Experimental Forest, NH.
- April 2007. The effect of legacies on human-environment coupled systems: 200 years of land change dynamics in Grafton County, New Hampshire. In organized session: Social and Ecological Systems. *Association of American Geographers*, San Francisco, CA.
- November 2006. Millones, M; J. Rogan, **L.C. Schneider** and B.L. Turner. Integrated Fire Risk Using MODIS data for the Southern Yucatan Peninsula. *3rd International Congress of Fire Ecology*, San Diego CA.
- August 2006. Plant invasions and land use: the case of bracken fern invasion in southern Yucatán forest frontier in a special session Invasive species I: Environment and habitat factors. *91st Meeting of the Ecological Society of America*. Memphis, TN.
- August 2006. Plant Invasions in an Agricultural Frontier: The case of bracken fern invasion in southern Yucatán Peninsular region (Poster Presentation). *Joint Workshop on NASA Biodiversity, Terrestrial Ecology, and Related Applied Sciences*. University of Maryland, Adelphi MD.

- June 2006. The Interaction between Crop-Fallow Production Decisions and an Invasive Species: A Spatial Analysis. Co-Authors: A. Ickowitz, J. Geoghegan and **L. Schneider**. *Northeastern Agricultural and Resource Economics Association*, Mystic CT.
- March 2006. Advance and retreat: Land abandonment and plant invasions in an agricultural frontier. In organized session: Linking Social and Ecological Systems. *Association of American Geographers Meeting*, Chicago IL.
- June 2005. Spatial Modeling of an Invasive Species: Linking Satellite, Ecological, and Agricultural Household Survey Data. *Northeastern Agricultural and Resource Economics Association (NAREA) Workshop on Invasive Species*. Annapolis, Maryland.
- April 2005. Spatially Explicit Model of Bracken Fern Invasion in Southern Yucatan Peninsular Region (SYPR). In organized session: Understanding Land Transformation through spatial explicit models. Chair, Organizer of the session and Presenter. *Association of American Geographers*, Denver, CO.
- April 2005. Bradley, B.A., J.F. Mustard, and **L.C. Schneider**. Assessing Spatial Changes and Drivers of Biological Invasions Using Remote Sensing: The Case of Cheatgrass in Northern Nevada, *American Association of Geographers Annual Meeting*, Denver, CO.
- August 2004. Invasive species and common property: The case of bracken fern (*Pteridium aquilinum* (L.) Kuhn) invasion in the region of Calakmul. *The 10th Biennial Conference of the International Association for the Study of Common Property*. Oaxaca, Mexico.
- July 2004. Modeling land use-cover change in Grafton County, NH. *Hubbard Brook Ecosystem Study 41st Annual Cooperators' Meeting*. The Hubbard Brook Experimental Forest, NH.
- March 2003. *Pteridium aquilinum* (bracken fern) invasion in the Southern Yucatan Peninsular Region (SYPR). In organized session: People, places and Invasive species. *Association of American Geographers*, New Orleans, LA.
- February 2001. Land-cover change estimates in the southern Yucatán peninsular region (Mexico) using 1984-1997 Landsat TM imagery. In organized Session: Land Change in Yucatan. *Association of American Geographers*. New York NY.
- March 2000. Modeling Land use change in Ipswich watershed, USA. *Association of American Geographers*. Pittsburgh PA.
- March 1995. International Conference: Examining Biodiversity Data, Interpretation, and Public Policy. *The Living Planet in Crisis: Biodiversity Science and Policy*. American Museum of Natural History, Center for Biodiversity and Conservation. New York, NY.
- June 1991. Humid Tropical Lowlands Conference. Development Strategies and Natural Resources Management. Panama City, Panama.

## **Teaching and Advising**

### **Student advising and committees:**

#### *Chair of Graduate PhD Committee*

Elizabeth (Tabby) Fenn , ABD, current student

Diya Paul, co-advisor, current student

Irene Zager, completed 2014

#### *Chair of Graduate MA/MS Committee*

Colleen M. Earp, M.A., completed 2011

Jacob Gable, MA, completed 2013

Joshua Randall, MS, completed 2014

Sheila Skula MA, completed 2009

#### *Member of Graduate Thesis Committee*

##### *PhD Students*

Elizabeth Barron, completed 2010, doctoral exam

Sandra Baptista, completed 2008

Stella Cappocia, completed 2013, doctoral exam

Gwangyong Choi, completed 2007

Nicole Davi, completed 2009

Rosana Grafals , completed 2010

David Ferring, current student (doctoral exam)

Nelun Fernando, completed 2010

Jenny Isaacs, current student (doctoral exam)

Jim Jeffers, completed 2011, doctoral exam

Divya Karnad, current student (doctoral exam)

Jessica Kelly, completed 2009

John Mioduszewski, 2011 current student (doctoral exam)

Jim Myers, completed 2012

Ramiro Puc Ramirez, (Colegio de Postgraduados, Mexico)

##### *MA Students*

Carolin Fewerda, completed 2009

Maeve Pinto, completed 2007

G. Poberezny, completed 2006

James Riely, completed 2009

Adam Steinberg, completed 2007

#### **Undergraduate independent studies:**

Marion Clement' 12, Senior Thesis Evaluation Committee.

Barbara Havrillay' 08, Senior Thesis Evaluation Committee.

Nickolas Blum-Destefano' 07 (Spring 2006),

Gavriel Vigneri' 07 (Spring 2006)

**Fulbright Scholar:** Robin Rasin, Czech Republic (2008-2009). Landscape – its' changes and memory: the case of Czech-Austrian borderland.

#### **Postdoctoral Research Associate**

Amy Lerner , PhD 2011. UC Santa Barbara. Silvopastoral systems in Ecuadorian Amazon (with Tom Rudel)

Zachary Chirstman, PhD 2010. Clark University. Environmental Disturbance in the Greater Yucatán.

**Courses Taught at Rutgers U.:**

1. Transforming the Global Environment (450:102)
2. Conservation of Natural Resources (450:211)
3. Remote Sensing (450:322)
4. Latin America (450:336)
5. Biogeography (450:404)
6. Advanced Topics in GIS (450:421).
7. Land Change Science (450:511): Graduate Seminar.
8. Research Design (450:602): Graduate Seminar

**Workshops taught:**

- 2010 May 13-14. Instructor. Mapping and Monitoring environmental disturbances in Southern Yucatan. El Colegio de la Frontera Sur and Rutgers University. Chetumal, Mexico.
- 2003 January 22-26. Instructor. Introduction to Geographic Information Systems and Remote Sensing. Ecología, Sociedad y Manejo de los Recursos Bióticos. El Colegio de El Colegio de la Frontera Sur-ECOSUR. Chetumal, Mexico. Workshop, 2003.
- 2002 April 8-19 Instructor. Introduction to Geographic Information Systems and Remote Sensing. Centro De Ecología. Instituto Venezolano de Investigaciones Científicas. Caracas, Venezuela. Workshop 2002.

**Service**

**Peer Review**

1. Journals:

- Agriculture, Ecosystems and the Environment (2009)
- Annals of the American Association of Geography (2009, 2010, 2014)
- Biotropica (2008, 2011)
- Conservation Biology (2007)
- Geoforum (2008)
- Geographical Review (2010)
- Global Environmental Change (2012)
- GIScience and Remote Sensing (2014)
- Environmental Management (2013)
- Forest Science (2005, 2007)
- Forest Policy and Management (2012)
- Frontiers in Ecology and Evolution (2012)

Human Ecology (2014)  
Journal of Latin American Geography (2009, 2010, 2011)  
Journal of Applied Geography (2009, 2012)  
Journal of Tropical Ecology (2009)  
Land Degradation and Development (2005)  
Landscape ecology (2008, 2009)  
Landscape and Urban planning (2007, 2008, 2010)  
PLOS One (2013)  
Remote Sensing of the Environment (2012)  
The Professional Geographer (2008, 2009, 2010)  
Weed Research (2009, 2010, 2012)

## 2. Editorial Boards

Journal of Latin America Geography, Associate Editor, July 2010- December 2011

## 3. Proposal Reviewer:

NOAA-National Science Foundation Ecological Forecasting (2006)  
National Science Foundation, Geography (2007, 2009, 2014)  
Georgia Sea Grant (2009)  
National Geographic Society (2008, 2009)

## **Professional Activities:**

Latin American Specialty Group Best Student Paper Award Committee, Association of American Geographers. Spring 2010, Spring 2014.

MaGrann Conference and Workshop. Land Use Transition in the Tropics. Organizer (with M. Uriarte and T. Rudel). Rutgers University and Columbia University. Spring 2008.

Science Links: Carbon. 2009. Hubbard Brook Experimental Forest and Hubbard Brook Foundation. Contributor.

Reviewer, NRC Survey of Program Quality, Assessment of Research Doctorate Programs, National Academies Board on Higher Education and Workforce, Washington, DC. Ratings released 2007.

## **Service at Rutgers University:**

### **Department of Geography:**

2012-	Graduate Program Director
2010-2012	Member. Graduate Admissions Committee,
2008-2009	Member, Search Committee, New Faculty Hire
2006-2007	Member, Search Committee, New Faculty Hire,
2006-2007	Faculty Liaison, Graduate Geographers Project Speaker Series.
2005-2007	Member, Graduate Admissions Committee

### **University at large**

- 2013- Member, Advisory Committee Rutgers Climate Institute
- 2012- Member, Social Sciences Area Committee, Graduate School, New Brunswick.
- 2012- Member, Appointments and Promotions Committee for non-tenured faculty. School of Arts and Sciences, NB.
- 2011-2013 Member, Advisory Committee Center for Women Global Leadership
- 2011-2013 Member, Advisory Committee Climate and Society Initiative
- 2011-2012 Director, Center for Latin American Studies.
- 2010-2011 Acting Director, Center for Latin American Studies.
- 2010 Member, Faculty Council, New Brunswick.
- 2008-2011 Member, Advisory Committee on Foreign Languages. SAS
- 2007- 2009 Member, Executive Committee of the Center for Latin American Studies,
- 2007 Member, Committee on the Future of Rutgers University Latin American Studies (RULAS). School of Arts and Sciences, Spring 2007
- 2006- Affiliated Faculty, Department of Latino and Hispanic Caribbean Studies.
- 2005- Affiliated Faculty, Graduate Certificate Program in Geospatial Information Science.
- 2005- Affiliated Faculty, Center for Latin American Studies.
- 2005-2007 Faculty Fellow, Livingston College.
- 2005-2006 Advisor, Hubert H. Humphrey Fellowship Program.
- 2005-2006 Member, Nominating Committee, Faculty of Science and Arts.

### **Memberships**

Association of American Geographers  
Conference of Latinamericanist Geographers  
Long Term Ecological Research Network- Hubbard Brook Experimental Forest  
Global Land Project  
PARTNERS, People and Reforestation in the Tropics, RCN, Core Member.

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