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Employment

- 2005 - Assistant Professor. Rutgers, The State University of New Jersey. Department of Geography.
- 2004 Post Doctoral Research Associate. Global Environmental Change Initiative. Brown University.

Education

- 2004 Ph. D. Graduate School of Geography, Clark University.
Advisor: B. L. Turner
- 1992 Bachelor of Science – Biology.
Universidad Nacional de Colombia (Bogotá). Facultad de Ciencias. Departamento de Biología.

Research and Teaching Specialties

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

Publications

Articles in Peer Reviewed Journals

1. **L.C. Schneider**. 2006. 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.
2. **L.C. Schneider** and J. Geoghegan. 2006. 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
3. **L.C. Schneider**. 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.
4. J. Geoghegan, **L. C. Schneider** and C. Vance. 2004. Temporal Dynamics and Spatial Scales: Modeling Deforestation in the Southern Yucatán Peninsular Region. *Geojournal* 51: 353-363.

5. **L. C. Schneider** and R. G. Pontius Jr. 2001. Modeling land-use change in the Ipswich watershed, Massachusetts, USA. *Agriculture, Ecosystems & Environment* 85(1-3) p. 83-94.
6. R. G. Pontius Jr 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) p. 239-248.
7. **L. C. Schneider**, 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 pp. 207-226
8. 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 pp. 353-370

Book Chapters:

1. **L.C. Schneider**. *In Preparation*. Plant Invasions in an Agricultural Frontier: Linking satellite, ecological and household survey data. In *Land Change Science in the Tropics: Changing Agricultural Landscapes*, Andrew Millington and Wendy Jepson eds.. Kluwer publishers.
2. 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.
3. 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.
4. 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.
5. 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*. Gómez-Pompa, A., M. Allen, S. Fedick & J. Jimenez-Osornio eds. 2003. New York: The Haworth Press.
6. 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*. Gregory Knapp ed. University of Texas Press.

Other Publications.

1. **L.C. Schneider**. (Forthcoming). "Research Methods". in P. Robbins, ed., *The Encyclopedia of Environment & Society*. London: Sage.
2. **L.C. Schneider**. (Forthcoming). "Invasive Species". in P. Robbins, ed., *The Encyclopedia of Environment & Society*. London: Sage.
3. Eduardo Brondizio, Ruth DeFries, Rheyna Laney, John S. Latham, Alejandro Leon, **Laura C. Schneider**, Peter Verburg, and Stephen J. Walsh. Land Use and Cover Change (LUCC) Report Series n° 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.
4. R G Pontius Jr, L Claessens, C Hopkinson Jr, A Marzouk, E Rastetter, **L Schneider**, J Vallino. 2000. "Scenarios of land-use change and nitrogen release in the Ipswich watershed, Massachusetts, USA". in B Parks, K Clarke, M Crane, editors. 2000. *Proceedings of the 4th international conference on integrating GIS and environmental modeling Boulder: University of Colorado, CIRES*.

Grants

1. 2005. 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. 3 years.
2. 2005. Rutgers University-Research Council Grant. Office of Research and Sponsored Programs (ORSP). Understanding Plant Invasions in Mexico through Land Change Science. \$1,200.
3. 2004. National Science Foundation. Long Term Ecological Research. Social Science Supplement. With: Steve Hamburg, John Mustard and Andrew Foster. Brown University. \$50,000. FY 2004.

Fellowships and scholarships

1. 2003. Clark University, Graduate School of Geography. Pruzer-Holzhauer Fellowship. Dissertation Writing Scholarship.
2. 1998-2004. Clark University, Graduate School of Geography. Ph.D. Scholarship.
3. 1991. Smithsonian Tropical Research Institute. Exxon Fellow.

Professional Experience

2005 - Assistant Professor. Rutgers, The State University of New Jersey. Department of Geography. 2005-current

2004 Post Doctoral Research Associate. Global Environmental Change Initiative. Brown University. 2004.

2000-2003. Research Associate. Clark University and George Perkins Marsh Institute, Graduate School of Geography, 2000 – 2003. Land-cover and Land-use change (LCLUC) in the Southern Yucatán Peninsular Region (SYPR)

1999. Research Assistant. Clark University, Graduate School of Geography, 1999. Land-use change in the Ipswich watershed, Massachusetts, USA

1994- 1998. Research Assistant. Princeton University, Center for Energy and Environmental Studies Landscape ecology in Northeast Brazil, GIS and Remote Sensing.

1991-1993. Research Assistant. Smithsonian Tropical Research Institute, Barro Colorado Island, 1992-1993. Insect-Plant mutualisms: the case of *Azteca sp* and *Ficus paraensis* in Barro Colorado Island.

Teaching and Advising

Rutgers University, Geography Department

Course taught:

1. Remote Sensing (450:322)
2. Latin America (450:336)
3. Advanced Topics in GIS (New course for the Department of Geography) (450:421)
4. Geography Seminar in Land Change Science (450:606:04)

Student advising and committees:

Ph.D. Committees:

Elizabeth Barrens (ABD-2006)
Jessica Kelley (ABD-2005)
Jim Myers (ABD-2005)
Sandra Baptista (Reader-Dissertation)
Gwangyong Choi (Reader-Dissertation)
Rosana Grafals (Second Year PhD student)
Nelun Fernandi (First Year PhD student)

Master Committees:

Gennady Poberezny MSc (2006)
Adam Steinberg MSc (Spring 2007)

Undergraduate independent studies:

Nickolas Blum-Destefano' 07
Gavriel Vigneri' 07

Other teaching:

Introduction to College Teaching. Teaching Certificate. Worcester College Consortium. Workshop, May 7-June 4 2003.

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 January 22-26, 2003.

Instructor. Introduction to Geographic Information Systems and Remote Sensing. Centro De Ecología. Instituto Venezolano de Investigaciones Científicas. Caracas, Venezuela. Workshop April 8-19 2002.

Teaching Assistant-Clark University, Graduate School of Geography Fall 1998
Geography 190 - Introduction to Geographic Information Systems.

Teaching Assistant-Princeton University, Multimedia Computer Laboratory, Engineering Quadrangle 1996-1998.

Invited Presentations

1. May 26th, 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. Merida, Mexico.

2. March 2006. *Advance and retreat: Land abandonment and plant invasions in an agricultural frontier* in special session *Linking Social and Ecological Systems* organized by J. Southworth and R. Roy Chowdhury. Association of American Geographers Meeting, Chicago IL.

3. October 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.

4. September 14th, 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.

5. June 2005. *Spatial Modeling of an Invasive Species: Linking Satellite, Ecological, and Agricultural Household Survey Data.* North Eastern Agricultural and Resource Economics Association (NAREA). Workshop on Invasive Species. Annapolis, Maryland. Co-Author: J. Geoghegan.

6. April 28th, 2005. *Land Change Science and Tropical Deforestation in Southern Yucatan.* Graduate Geographers Project. Speaker Series 2004-2005. Rutgers University.

7. April 12th, 2005. *Understanding Plant Invasions through land change science*. Landscape Architecture Spring 2005 Speaker Series. Rutgers University.

8. December 3rd, 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.

Presentations at Professional Meetings

1. 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.

2. 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, Tennessee.

3. 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.

4. April , 2005. *Spatially Explicit Model of Bracken Fern Invasion in Southern Yucatan Peninsular Region (SYPR)*. In Special Session: Understanding Land Transformation through spatial explicit models. *Chair, Organizer and Presenter*. Association of American Geographers, Denver, CO.

5. 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.

6. 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.

7. 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.

8. March 2003. *Pteridium aquilinum (bracken fern) invasion in the Southern Yucatan Peninsular Region (SYPR)*. Association of American Geographers, New Orleans Louisiana. Special Session People, places and Invasive species. Organizer: P. Robbins.

9. September 2002. *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.
10. February 2001. *Land-cover change estimates in the southern Yucatán peninsular region (Mexico) using 1984-1997 Landsat TM imagery*. In Special Session: *Land Change in Yucatan*. Organizer: B.L. Turner, Discussant: D. Liverman. Association of American Geographers. New York NY.
11. October 2000. *The Southern Yucatán Peninsular Region, México: sketch maps and multi-spectral image classification*. Meeting in the Middle: The Challenge of Meso-Level Integration. LUCC: An International Workshop. Ispra, Italy
12. March 2000. *Modeling Land use change in Ipswich watershed, USA*. Association of American Geographers. Pittsburgh PA.
13. December 1999. *Modeling Land use change in Ipswich watershed, USA*. Predicting Land Use Change, International Land Use-Land Cover Change and the Human Dimensions of Global Change Program. Workshop at Wageningen University, The Netherlands.
14. 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.
15. June 1991. Humid Tropical Lowlands Conference. Development Strategies and Natural Resources Management. Panama City, Panama.

Invited Workshops

September, 20-23, 2006. *Long Term Ecological Research, All Scientists Meeting, The next 25 years of LTER*. Estes Park, CO.

August 21-25, 2006. *Joint Workshop on NASA Biodiversity, Terrestrial Ecology, and Related Applied Sciences*. University of Maryland, Adelphi MD.

August 3-5, 2005. *The current and future role of the social sciences in the LTER Network*. Athens, Georgia.

Service

1. Reviewer for Journals: Land Degradation and Development
Forest Science
Landscape and Urban planning
Geoforum
2. Proposal Reviewer: NOAA-NSF Ecological Forecasting.

Rutgers University Service

1. Search Committee, New Faculty Hire, Department of Geography, 2006.
2. Global Futures Symposia, Livingston College 2006-2007
3. Graduate Admissions Committee, Department of Geography 2005-
4. Affiliated Faculty, Department of Latino and Hispanic Caribbean Studies, 2006
5. Affiliated Faculty, Graduate Certificate Program in Geospatial Information Science, 2005-
6. Affiliated Faculty, Latin American Studies Program, 2005-
7. Faculty Fellow, Livingston College 2005-
8. Advisor Hubert H. Humphrey Fellowship Program. 2005-2006.
9. Nominating Committee, Faculty of Science and Arts, 2005-2006

Miscellaneous

4. Member of the GIS- Remote Sensing Hiring Committee for the Graduate School of Geography, Clark University. 2003
5. Coordinator of the Clark University Geographical Society. (Graduate Student Association). 1999-2000
6. Member of the Graduate Students Admission Committee for the Graduate School of Geography, Clark University. 1999

Memberships

Association of American Geographers
Conference of Latinamericanist Geographers
Ecological Society of America
Long Term Ecological Research Network