

**Jeffrey A. Onsted**  
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Florida International University  
Departments of Earth and Environment / Global Sociocultural Studies  
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## **EDUCATION**

Ph.D. in Geography. UC Santa Barbara. “Effectiveness of the Williamson Act: A Spatial Analysis” (July 2007)  
M.A. in Geography. UC Santa Barbara. “SCOPE: A Modification and Application of the Forrester Model to the South Coast of Santa Barbara County” (June 2002)  
B.A. in Urban Studies and Planning with a Minor in Environmental studies. UC San Diego. (December 1995)

## **AREAS OF INTEREST**

Human environment relations; Urban growth issues, theory and modeling; land use change science, theory, and modeling; Geographic Information Systems (GIS); Agricultural geography and farmland loss; Farmland protection; Agroecology; Urban Ecology.

## **EXPERIENCE**

Assistant Professor, Florida International University. Joint Appointment: Earth and Environment as well as Global Sociocultural Studies. Project Collaborator: LTER Florida Coastal Everglades Human Dimensions Working Group and a Project Director of Agroecology Research Group. Have taught EVR 1001 (Introduction to Environmental Science) and GEO 2000 (Introduction to Geography). (Spring, 2008 and Spring, 2009 for both). Taught EVR 4934 in the Fall of 2008 (Urban Ecology / Urban Geography). Advising three graduate students and have currently taught two undergraduate independent studies and one graduate independent study course.

Trainee and Graduate Student Researcher, NOAA Sea Grant Program. Through USC, working with [Ms. Gail Osherenko](#) and [Dr. Keith Clarke](#) examining retention of Coastal Zone agriculture in California. (April, 2004 – Present)

Graduate Student Researcher, UC Santa Barbara, Department of Geography. Worked in the GeoVisualization Lab. Duties included: analyzing 2-D studies already created, and creating two new-3D models for use in experiments. One is a constellation of points using Vizard and the other an urban landscape using ArcScene. (September 2003-March 2004)

Teaching Assistant, UC Santa Barbara, Department of Geography.  
Spring 2003 - Physical Geography: Land Surface Processes (Sundbeck)  
Spring 2001 - Introductory Human Geography (Montello)  
Fall 2000 - Urban Geography (Couclelis)  
Spring 2000 - Introductory Human Geography (Proctor)  
Winter 2000 - Geography Planning and Policy Making (Couclelis)  
Fall 1999 - Geography of the Information Society (Couclelis)

Field Researcher, UC Santa Barbara, Department of Geography. Conducted GPS and GIS research in Belize and Guatemala with the Meso-American Research Center. Duties included reconciling different GIS layers, using GPS in the field, assisting

with editing of grant proposals and reports, as well as participating in meetings and workshops with stakeholders in the Mayan Forest Region. (May 2002)

Graduate Student Researcher, UC Santa Barbara, Department of Geography. Worked with [Dr. Keith Clarke](#), assisting him with the [South Coast Outlook and Participation Experience \(SCOPE\)](#) for Santa Barbara County. Duties included: porting the initial model (designed at Prescott College) from PowerSim to Stella modeling languages, reducing size and complexity of model, challenging and changing its assumptions and parameters appropriately, adding additional elements to model, preparing and presenting PowerPoint Presentations to County stakeholders, create necessary environment for model to be simulated in a user-friendly interface through the Internet (currently off-line), and the writing up of the final report. Work included the continuing improvement of the model, outreach to the community, and discovering methods of coupling this model with the Clarke Urban Growth Model ([SLEUTH](#)). This culminated in the [Regional Impacts to Growth Study \(RIGS\)](#), the results of which came directly from the SCOPE model. Authored half the RIGS Appendix and helped write and edit sections of report dealing with model and its results. Have appeared on local television explaining the model's workings and its results. Continuing to provide ad hoc support for the ongoing modeling work. (June 2000 – September 2003)

Environmental Policy Analyst, [Science Applications International Corporation \(SAIC\)](#), Environmental Health and Sciences Group. Collaborated in the construction of an [EPA](#) urban modeling questionnaire designed for distribution to the various businesses and institutions that designed these models (i.e., [MEPLAN](#), [DRAM/EMPAL](#), etc.) Worked with the [EPA's National Agricultural Compliance Assistance Center](#). Duties included: Internet searches for a wide variety of information useful to the Center; assisting with creation and editing of both the Crop Sector Notebook and the Livestock Sector Notebook; many other miscellaneous tasks including the composing of reports. Assisted with the Title V Air Permit Project by visiting state environmental offices, collecting copies of permits, and entering data. Played a major role in completing the deliverable draft of EPA's Internal Audit Policy Survey. Role included participation in data entry, Q/A, Access Queries, and Report generation. Provided financial research and analytical support for Local Government Sector Profile. Worked on EPA's Oil Refinery Compliance Study. Duties included: visiting state and regional environmental protection offices to procure relevant documents; identifying and analyzing compliance information concerning the constituent refineries, and entering information into a database. (August 1997 – September 1999)

Quality Assurance Specialist, CACI (Information Technology Services and Products). Responsible for ensuring correct document analysis for a large commercial litigation suit. Assisted Project Manager with the generation of reports and provided ideas for the evolving methodology of CACI's approach to capturing and presenting the information. (January 1997 – August 1997)

Research Assistant, [Renew America](#). Worked with the Program Director to research, identify, and verify successful environmental programs. Other duties included: assisting with outreach to environmental, business, government, and community groups; and assisting with overall coordination of awards program. (June 1996 – December 1996)

Intern, San Elijo Lagoon Conservancy. Assisted the Executive Director by taking notes at

meetings, procuring and photocopying documents from the county, calling appropriate government officials to secure information involved with various issues, speaking before the City Planning Commission, and laboring within the lagoon itself (which included removing invasive species and building channel catches to reduce erosion.) (Winter 1995)

## **PUBLICATIONS, PRESENTATIONS, POSTERS, and Reports**

- Onsted, J.**, L. Ogden, R. Roy Chowdhury. "Zoning and Land Use Change: Dynamic Processes in Southern Florida." Conference Poster, LTER All Science Meeting Estes Park, CO. September 14<sup>th</sup> -16<sup>th</sup>, 2009.
- Alber, M., J. Moore, **J. Onsted**, R.G. Pontius Jr., N. Sayre, L. Schneider and J. Thompson. "White Paper: Modeling Socio-Ecological Systems in LTER. A Common Denominator: Modeling Land and Water Use Change in LTER sites." Currently under review by LTER Steering Committee. Forthcoming.
- Wu, X., Y. Hu, H. He, R. Bu, **J. Onsted**, and F. Xi. "Using multiple methods to evaluate the performance of SLEUTH in the Shenyang metropolitan area." *Environmental Modeling and Assessment*. 14(2): 221-230, 2009.
- Chowdhury, R.R., L. Ogden, **J. Onsted**. "Residential Landscapes in the Long-Term Ecological Research Landscape" Annual Meeting of the Association of American Geographers. Las Vegas, NV, March 25, 2009.
- Ogden, L., H. Gladwin, J. Heffernan, G. Hollander, **J. Onsted**, R. R. Chowdhury, V. Smith. "Raising Lawns: Understanding the social and ecological consequences of land use/cover change in southern Dade County." Florida Coastal Everglades Long Term Ecological Research, All Science Meeting. Miami, FL, March 19, 2009.
- Onsted, J.**, G. Osherenko. "California's Coastal Act: What Difference Has it Made?" Proceedings of the Coastal Society's Twenty-first International Conference; Redondo Beach, CA; June 29-July 2, 2008,.
- Chowdhury, R. R., H. Gladwin, L. A. Ogden, **J. Onsted**. 2008. "Cartographies of Exemption: The Political Ecology of Zoning and Land Use in South Florida" Conference Presentation at *14th International Symposium on Society and Resource Management* Burlington, VT June 10 – June 14.
- Osherenko, G., **J. Onsted**, K. Clarke, N. Boucquey, and K. Hart. 2008. *Retaining California's Coastal Agricultural Land through economic incentives, regulation, and purchase*. Final Grant Report submitted to NOAA's Seagrass program.
- Onsted, J.**, 2008 "Two approaches to agriculturally protected lands using SLEUTH." Conference Paper, *Association of American Geographers*. Boston, MA April 15-19.
- Bhat, M., L. H. Gladwin, G. Hollander, L. Ogden, **J. Onsted**, R. Roy Chowdhury, R. Tardanico, R. Garvoille. 2008. "Human Dimensions Working Group." Conference Paper, FCE All Science Meeting. Coral Gables, FL March 17.
- Onsted, J.** and K. Clarke. 2007. "The Impact of Policy on Land-Use and Land Cover Change." *Paper, Framing Land Use Dynamics II*. Utrecht, The Netherlands. April 18– 20.
- Onsted, J.** 2006. "California's Coastal Zone Management Program: Retaining Agricultural Land in the Face of Urban Growth" *Poster Presentation, California and the World Ocean's Conference*. Accepted but not shown. September 18.
- Onsted, J.** 2006. "Assessing the long-term viability of the Williamson Act in California." Conference Paper *The International Conference on The Future of Agriculture: Science,*

- Stewardship, and Sustainability* Sacramento, CA. August 7-9.
- Onsted, J.** 2006. "Suburbs: Farming on the Fringe: Can Tax Incentives Save California's Farmlands?" *The Next American City* 11: 23-25
- Onsted, J.** 2006. "California's Coastal Zone Management Program: Retaining Agricultural Land in the Face of Urban Growth" Presentation, *Sea Grant Trainee Symposium*. USC. Los Angeles, CA. April 10.
- Onsted, J.** 2006. "Effectiveness of a Differential Tax Assessment Program for Farmland Conservation in Tulare County, California". Conference Paper, *Association of American Geographers*. Chicago, IL. March 7 – 11.
- Onsted, J.** 2004. "Effectiveness of the Williamson Act: An Exploratory Study" Conference Paper, *Association of American Geographers*. Philadelphia, PA. March 14-19.
- Onsted, J.** 2002. "SCOPE: The South Coast Outlook and Participation Experience." Conference Poster, *Association of American Geographers*. Los Angeles, CA. March 19-23.

## AWARDS/HONORS

Sea Grant Traineeship (competitive fellowship) Awardee 2004-2007  
 Received 4<sup>th</sup> place in AAG Geography Bowl, 2002  
 Department of Geography Out-of-State Fee Fellowship (UCSB) 1999, 2000, 2001, 2002  
 Department Block Grant Fee Fellowship (UCSB) 1999, 2000, 2001, 2002  
 Department of Geography Teaching Fellowship (UCSB) 1999, 2000  
 Provost's Honor List, Muir College (UC San Diego), 1994  
 Offered Winslow Scholarship (University of Maryland at College Park), 1991  
 National Merit Scholar Commendation (High School) 1990

## GRANTS

USDA

PI: "Limits to Growth in Agriculture and Emerging Sustainable Farming Systems in Developing Countries"  
 Co-PI: "Curriculum Enrichment, Instrumentation and Experiential Learning in Agroecology"

NSF, ULTRA Collaborator

NSF, LTER Human Dimensions Working Group Project Collaborator

FIU College of Arts and Sciences, Dean's Award for Summer Research

FIU, College of Arts and Sciences, Dean's Award for Faculty Development

NOAA Sea Grant (I helped edit proposal) (2005 – 2006)

CPRC (California Policy Research Center) (I was primary author) (2004 – 2005)

SPF (Shoreline Preservation Fund) (I was primary author) (2005)

NIMA (National Image and Mapping Agency) (2003 – 2004)

NSF, UCIME (National Science Foundation's Urban Change Integrated Modeling Environment) (2000 – 2003)

## SERVICE

Reviewer, Book chapter in *Advanced Geosimulation Models* (2009)

Reviewer, National Geographic Society grant proposal (2009)

Guest Lecturer, Sustainable Agriculture Class at FIU (Dr. Bhat)

Lecturer, Online Inter-campus Graduate Class – “Gyroscope, From Yardstick to Gyroscope: Interdisciplinary Methods for the Long-Term Study of Social-Ecological Systems” (February 9, 2009)

Participant, LTER Working Group: Design Challenges and Solutions for Establishing a Network of Socio-Ecological Research Sites (University of Puerto Rico, December 15-19, 2008)

Participant, Future Directions for Cross-site, Socio-Ecological Research: Animating the ISSE Framework for the LTER Network Workshop (October 23 – 24, 2008 Clark University)

Reviewer, Cartography and Geographic Information Society (CaGIS) Journal

Reviewer, University of MD Sea Grant Proposal

Session Chair, AAG Annual Meeting, Boston, MA (2004)

Moderator, Town Hall Meeting on FIU's Recycling Program

Member, FIU Faculty Senate Ad Hoc Committee on Building and Environment (10/07 – Present)

Curriculum Committee, College of Arts and Sciences, FIU (10/07 – Present)

Faculty Adviser, Student Recycling Committee at FIU

Reviewer, *Environmental Management*

Reviewer, *International Journal of Geographic Information Science*

Reviewer, *Environment and Planning B*

Session Chair, AAG Annual Meeting, Philadelphia, PA (2004)

Guest Lecturer, Geography 176 C (GIS Design and Applications) at UC Santa Barbara (2006)

Guest Lecturer, Western Kentucky University's Geography Department. Gave lecture on Folk Culture versus Popular Culture to a Human Geography Class. (2006)

Invited Lecturer, Kansas State University's Geography Department. Talk entitled, "Examining the Effectiveness of California's Land Conservation Act". (2006)

Guest Lecturer, Economic Geography Class at Santa Barbara City College. (2005, 2006)

Participant, in inaugural meeting of the prospective UC Environmental Politics/Policy Institute at UC Santa Cruz. (2005)

Guest Lecturer, Goleta Sustainable Food Systems for the Environmental Studies Department at UC Santa Barbara. (2004, 2005, 2006)

Guest Lecturer, Coastal and Ocean Law and Policy class for the Environmental Studies Department at UC Santa Barbara (2004)

Guest Lecturer, Urban and Regional Modeling and Planning class (Geography 184 C) for Geography Department at UC Santa Barbara. (2003)

Representative, for the South Coast modeling team, with presentation and demonstration at GIS Day, held at the Santa Barbara County Government Building. Presentation was broadcast on local government television. (2002)

Lecturer, Presented hour-long presentation and demonstration of South Coast model and local planning issues to over 100 local residents during an adult education class at Santa Barbara City College. (2001)

Representative, of the Geography Department to the Graduate Student Association. (2001-2002)

Mentor, Initiated an intra-departmental mentoring program at UCSB Geography for incoming graduate students. Administered this program ever since and have personally been a mentor to five graduate students. (2001 – Present)

Mentor, Helped guide students who are placed on academic contract after their first

quarter at UCSB. Duties included assisting with self-assessment, motivation skills, time organization, positive thinking, future goals, and assistance in accessing campus resources. (2001)

Volunteer, with Campus-Wide Orientation for incoming graduate students at UCSB.

Entertainment Committee, for Geography Department. (2000 – present)

Volunteer, with Summer Bridge program for incoming freshman from under-represented high schools at UCSB. (2000)

## **AFFILIATIONS**

Association of American Geographers

- Coastal Specialty Group

- GIS Specialty Group

- Population Specialty Group

- Regional Development and Planning Specialty Group

- Rural Geography Specialty Group

- Spatial Analysis and Modeling Specialty Group

- Urban Geography Specialty Group

North American Cartographic Information Society

American Congress on Surveying and Mapping

National Geographic Society