

# Amy E. Daniels

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## EDUCATION

<b>PhD</b>	2008(expected)	Interdisciplinary Ecology	4.0/4.0	Univ. of Florida
<b>M.S.</b>	2004	Interdisciplinary Ecology	4.0/4.0	Univ. of Florida
<b>B.A.</b>	1999	Biology	<i>Summa Cum Laude</i>	Wesleyan College
<b>Diploma</b>	1995	Valedictorian		Apalachicola H.S.

- **Dissertation** (NASA Research Fellowship - supervised by Dr. Jane Southworth)

Daniels, A. 2008. Understanding the role of conservation institutions in landscape ecosystem functioning: an analysis of payments for environmental services in Northwest Costa Rica. Univ. of Florida. Gainesville, FL, USA (to be defended Summer 2008).

- **Thesis** (Fulbright Fellowship - supervised by Dr. Hugh Popenoe)

Daniels, A. 2004. Protected area management in a watershed context: a case study of Palo Verde National Park, Costa Rica. Univ. of Florida. Gainesville, FL, USA. 140 pp.

## PUBLICATIONS

- Daniels, A.E., V. Esposito, K. Bagstad, et al. (in review). A decade of PES: building on Costa Rica's model and applying lessons learned. *Ecological Economics* (special issue on Payments for Environmental Services).
- Farley, J., A. Aquino, A.E. Daniels, et al. (in review). Global mechanisms for sustaining and enhancing schemes of payments for environmental services. *Ecological Economics* (special issue on Payments for Environmental Services).
- Daniels, A.E. (accepted). Forest expansion in northwest Costa Rica: conjuncture of the global market, land-use intensification and forest protection. Chapter in Nagendra, H. (Ed.) *Reforesting Landscapes Linking Pattern and Process*. Springer Landscape Series.
- Daniels, A.E. and G. Cumming. (2008). Conservation or conversion? Wetland habitat conversion and landscape fragmentation. *Ecological Applications* 18(1): 49-63.
- Daniels, A.E., K. Painter, and J. Southworth. (2008). Milpa imprint on the tropical dry forest landscape in Yucatan, Mexico: remote sensing and field measurement of edge vegetation. *Agriculture, Ecosystems and Environment* 123: 293-304.
- Daniels, A.E. (2006). Incorporating domain knowledge and spatial relationships into land cover classification: a rule-based approach. *International Journal of Remote Sensing* 27(14): 2949-2975.
- Daniels, A.E. (2005). Conservation: a balance. Introduction and framework for innovation. *Ecology* 86(10): 2841-2844.
- Daniels, A.E. (2002). Indigenous peoples and neotropical forest conservation: impacts of protected area systems on traditional cultures. *Macalester Environmental Review*. Sept 22.

## AWARDS & GRANTS

- **NASA Jenkins Research Award.** \$3500 Funding for research at NASA's Goddard Space Flight Center (2007)
- **Excellence in Teaching Award.** Department award for superior undergraduate course teaching evaluation (2006)
- **NASA Research Fellowship.** 3-year doctoral fellowship & research support grant (2006)
- **Phi Kappa Phi Honor Society Award.** \$1000 Small grant for research (2005)
- **Working Forests in the Tropics Grant.** (National Science Foundation DGE-0221599) \$5138 Funding for preliminary dissertation research (2005)
- **1st Place in Research Competition.** Award at Florida Society of Geographers (2005)
- **UF Alumni Fellowship.** 4-year graduate fellowship for PhD (2004)
- **John G. Ruge Fellowship.** \$3000 Field grant for PhD (2003)
- **Coca-Cola World Citizenship Fellowship.** \$5000 Summer fellowship & internship in El Salvador (2003)
- **Fulbright Research Fellowship.** \$17,000 Funding for 11 months of M.S. fieldwork in Costa Rica (2002)
- **Tropical Conservation and Development Grant.** \$1500 Summer field grant for M.S. research (2002)
- **Tinker Foundation Travel Grant.** \$1000 Summer international travel grant for M.S. research (2002)
- **Friends of the Apalachicola Reserve Fellowship.** \$2000 Fellowship for M.S. research (2001)
- **Delta Airlines International Scholar.** \$3000 Arctic Biology scholarship, Univ. of Iceland, Reykjavik, Iceland (1998)
- **Munroe Science Scholar.** Partial undergraduate tuition scholarship and research stipend (1997)
- **Wesleyan Presidential Scholar.** Undergraduate tuition scholarship (1995)
- **Coca-Cola Regional Scholar.** Undergraduate tuition scholarship (1995)

## TEACHING

**Course Instructor – Physical Geography,** Univ. of Florida. Gainesville, FL. Solely responsible for instruction of 70+ student undergraduate course in physical geography, including designing curriculum and lecture materials. (Aug 2005-May 2006)

**Environmental Law Exchange Program Teaching Assistant,** Univ. of Costa Rica. San Jose, Costa Rica. Organized logistics for Univ. of Florida law school international environmental law program including field trips, scheduling activities, translating course materials, and assisting with group projects for legal clinic. (June-July 2005)

**Guest Lectures,** Univ. of Florida. Gainesville, FL. Ethnoecology, Remote Sensing, Landscape Ecology.

## OTHER EMPLOYMENT

- **Remote Sensing Technician,** U.S. Geological Survey. Gainesville, FL. (June – Aug 2004)
- **Agricultural Development Intern,** Mercy Corps & U.S. Agency for International Development. San Salvador, El Salvador. (May–Aug 2003)
- **Resource Management Biologist,** Apalachicola National Estuarine Research Reserve. Eastpoint, FL. (Oct–Aug 2001)
- **Conservation Biologist,** Asociación de Rescate y Conservación de Vida Silvestre. Peten, Guatemala. Volunteer position. (April–Sept 2000)

## PRESENTED PAPERS

- Daniels, A., V. Esposito, K. Bagstad, et al. January 18, 2008. Applying lessons and building on Costa Rica's payments for environmental services scheme. National Council on Science and the Environment (NCSE) Annual Meeting. Climate Change: Science & Solutions. Washington, D.C.
- Daniels, A. and G. Cumming. July 17, 2007. Predicting wetland conversion: a spatially-explicit model for northwest Costa Rica. NASA Research Symposium. Cleveland, OH.
- Daniels, A. April 17, 2007. Environmental services as non-exclusionary goods: the role of institutional scale in conservation. Association of American Geographers. San Francisco, CA.
- Daniels, A. March 14, 2007. Pagos por servicios ambientales y reforestación en La Cuenca Tempisque. Centro Internacional de Política Económica para el Desarrollo Sostenible. Universidad Nacional. Heredia, Costa Rica.
- Daniels, A. and K. Painter. March 11, 2006. The imprint of milpa agriculture on the dry tropical forest landscape in Mexico's Yucatán Peninsula. Association of American Geographers. Chicago, IL.
- Daniels, A. and C. Romero. Oct. 14, 2005. Cross-site comparisons of Environmental Service Payment Programs: Insights from Costa Rica and Ecuador. Working Forest in the Tropics, Conservation and Development Forum. Gainesville, FL.
- Daniels, A. Sept. 15, 2005. Environmental service payments and reforestation in northwestern Costa Rica. Department of Geography Colloquium. Gainesville, FL.
- Daniels, A. Feb 22, 2005. El efecto del Parque Nacional Palo Verde sobre el destino de humedales en la Cuenca Tempisque: conservación o conversión? International Congress on Wildlife Management. Heredia, Costa Rica.
- Daniels, A. Feb. 5, 2005. Conservation or conversion? The effect of Palo Verde National Park on wetland trajectories in the Tempisque River Watershed, Costa Rica. Florida Society of Geographers. Orlando, FL.
- Daniels, A. April 18, 2004. Ethnoecology at the landscape scale: perspectives from the Tempisque River Watershed. Ethnoecology Society Seminar Series. Gainesville, FL.
- Daniels, A. March 19, 2004. Land cover change in Palo Verde National Park: the effect of protected areas' position in watershed. Association of American Geographers (AAG) Centennial Meeting. Philadelphia, PA.
- Daniels, A. Nov. 25, 2003. Pattern drivers of land cover change in Costa Rica's Tempisque River Watershed. School of Natural Resources and Environment Seminar. Gainesville, FL.
- Daniels, A. Nov. 12, 2003. Using spatial relationships and domain knowledge in land cover classifications: a case study in the Tempisque Watershed, Costa Rica. Poster presentation at Land Use and Environmental Change Institute (LUECI) Symposium. University of Florida. Gainesville, FL.
- Daniels, A. Oct. 16, 2002. Understanding land use and land cover change in planning for sustainability in Guanacaste (in Spanish). Presentation for Consortium for Sustainable Development in the Tempisque Watershed (RAICES). Ortega, Costa Rica.

## RESEARCH COLLABORATIONS

- Consultorio Jurídico Ambiental, Universidad de Costa Rica (UCR)
- Department of Geography, Univ. of Florida
- Gund Institute for Ecological Economics, Univ. of Vermont
- Land Use & Environmental Change Institute (LUECI), Univ. of Florida
- NASA Goddard Space Flight Institute, Earth Sciences
- Percy FitzPatrick Institute, Univ. of Cape Town
- School of Natural Resources & Environment (SNRE), Univ. of Florida
- Universidad Autonoma de Yucatán, México

## CONFERENCES & WORKSHOPS

Ecological Dimensions of Biofuels. Ecological Society of America. March 10, 2008. Washington, D.C.

Climate Change: Science & Solutions. National Council for Science and the Environment. January 16-18, 2008. Washington, D.C.

Payments for Ecosystem Services (PES): From Local to Global. Gund Institute for Ecological Economics and Universidad Nacional. March 8-16, 2007. Heredia, Costa Rica.

Working Forests in the Tropics: Policy & Market Impacts on Conservation and Management. February 14-15, 2005. University of Florida. Gainesville, FL.

Tropical Conservation & Development Conference. Center for Latin American Studies, University of Florida. February, 2002.

Sustainable Communities: Science & Solutions. National Council for Science and the Environment. December 7-8, 2001. Washington, D.C.

## OUTREACH & ACTIVITIES

**Center for Pre-collegiate Education and Training Mentor** – Served as judge for three-day high school student speaker competition and as science lab host for small group of students interested in environmental applications of GIS and remote sensing. (Aug 2005-present)

**Organization for Tropical Studies** – Designed, organized and taught GIS workshop in Spanish for resource management officials in Guanacaste, Costa Rica. (April 2003)

**Ethnoecology Society** – President (2003-04) and Secretary (2001-02). Responsible for project initiation, fund raising activities, official communication of the Society, organizing & advertising bi-weekly seminar series, volunteering weekly at Ethnobotanical Garden, and assisting in organizing field trips (including course-credit option trip to Peruvian Amazon). (Aug 2001-May 2006)

**Tropical Conservation and Development Program** – Active member of weekly discussion forum. Four-time seminar presenter, two-time discussion facilitator, and two-time weekend workshop coordinator designed to teach social scientists about Global Positioning Systems (GPS) technology. Participate in annual Field Research Clinic, including poster presentation and sharing experiences from fieldwork. (Aug 2001-present)

**Project Read Literacy Volunteer** – Taught life-skills, basic reading and basic math to special-needs clients. Included research and experimentation in alternative learning methods and teaching. (1996-1999)

**Expressions Dance Company** – Founding member of this multi-genre dance group (1996). President (1998-1999). Tap instructor and choreographer (1996-1999). Responsible for staging two major productions

annually and numerous community performances. Delegate to National Dance Association Conference (1999). (1996-1999)

## **SERVICE**

**National Council for Science and the Environment** – Contributing member and conference volunteer.

**National Defense Science and Engineering Review Panel** – Serve as proposal reviewer for undergraduate scholarship competition.

**Journal Reviewer** – Serve as manuscript reviewer for *International Journal of Remote Sensing and Agriculture, Ecosystems and Environment*. (Aug 2003-present)

**School of Natural Resources and Environment Program Review** – Review board member and graduate focus group for evaluating Ph.D. curricula and program structure. (Aug 2005-May 2006)

## **PROFESSIONAL AND CIVIC MEMBERSHIPS**

American Society for Photogrammetry & Remote Sensing (ASPRS)

Apalachicola Bay & River Keepers

Association of American Geographers (AAG)

Ecological Society of America (ESA)

Florida Society of Geographers (FSG)

National Council for Science & the Environment (NCSE)

Union of Concerned Scientists

## **HONOR SOCIETIES**

Alpha Lambda Delta Honor Society

Beta Beta Beta Biological Honor Society

Mortar Board Senior Honor Society

Phi Kappa Phi Honor Society

## **LANGUAGES**

English (native tongue)

Fluent in Spanish (oral and written)

Computer language “R” (basic programming skills)