

# JANE SOUTHWORTH

## Department of Geography

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## RESEARCH INTERESTS

My research interests are based on the study of human-environment interactions within the field of Land Change Science. All of my research is undertaken with highly interdisciplinary research teams which involve both social and physical scientists. It is this interdisciplinary focus on research problems that interests me and for which I was trained. Within such interdisciplinary teams my particular strengths lie in the remote sensing of vegetation dynamics; land use, land cover change and land change modeling; the implications of scale and scaling in remote sensing and modeling analyses; people and parks; and modeling of the impacts of climate change on human-environment systems and vegetation dynamics.

## EDUCATION

PhD	2000	Indiana University	Environmental Science
MS	1996	Indiana University	Geography
BSc	1992	Leicester University, UK	Geography

## ACADEMIC APPOINTMENTS

August 2016-current	Professor, Chair, Dept. of Geography, University of Florida
2011-August 2016	Professor, Associate Chair, Dept. of Geography and the Land Use and Environmental Change Research Institute (LUECI), University of Florida
2010-2016	Chair: Steering Committee of the Florida Climate Institute. A joint UF/FSU institute developed with both Universities Funding.
2005-2011	Associate Professor, Department of Geography and the Land Use and Environmental Change Research Institute (LUECI), University of Florida
2002-2005	Assistant Professor in the Department of Geography and the Land Use and Environmental Change Research Institute (LUECI), University of Florida
2000-2001	Post-doctoral Research Associate in Climate Change Analysis and Remote Sensing of Land Cover Change, NIGEC & CIPEC, Indiana University

## AWARDS & HONORS

2017	Graduate Student Council Award for <i>Outstanding Service by a Faculty Member on behalf of Graduate Students</i> for the 2016-2017 Academic Year.
2014-2017	University of Florida Climate Institute Faculty Fellow for 2014-2017.
2014-2015	Nominated by CLAS as the Teacher/Scholar of the Year for 2014-2015
2013	Nominated for CLAS Dissertation Adviser and Mentoring Award for 2012-2013. Selected by college to go forward to University wide competition.
2011	Nominated for CLAS Dissertation Adviser and Mentoring Award for 2010-2011.
2011	2011 Association of American Geographers E. Willard and Ruby S. Miller Award. This annual award recognizes members of the Association who have made truly outstanding contributions to the geographic field due to their special competence in teaching and research. ( <a href="http://www.aag.org/cs/awards/miller">http://www.aag.org/cs/awards/miller</a> )
2007-2010	Awarded a University of Florida Research Foundation Professorship
2010	Nominated for CLAS Advising Award, November 2010
2009	Nominated for CLAS Advising Award, November 2009
2008	Nominated for CLAS Advising Award, November 2008
2007	Nominated for Teaching Award and for Advising Award
2006	Nominated for Professorship
2005-2006	Nomination for Teacher/Scholar of the Year 2005-2006
2004	Received a CLAS Faculty Teaching Award for 2004-05

## GRANTS

2016-2020	NSF CNH Program: <b>Recent land transactions in Ethiopia: Impacts on agriculture, ecosystem services, and food-energy security.</b> Notified of funding April 2016. \$1.6 million. UF portion with Southworth as PI = \$360,000 Total Award Period Covered: 9/1/2016 – 8/31/2020. PI: Dan Brown (University of Michigan). Co-PIs: Jane Southworth (UF PI) and Arun Agrawal (University of Michigan).
2016-2018	<b>NIOSH: South Eastern Coastal Center for Agricultural Health and Safety</b>

\$10 million. PI: Overall center PI – Glenn Morris. Sub-PI for our project (\$280,000) is Greg Glass. Co-PI: Southworth

- 2017-2018 University of Florida, International Center: Geography and CAS Study Abroad Program in South Africa. \$25,000. PI: Southworth, Co-PI's: Ryan and Child.
- 2014-2015 UF Informatics Institute SEED Grant. "Death, Disease and Distribution", \$36,000. PI – Southworth, Co-PIs: Blackburn, Waylen, Glass, Ryan, Munoz-Carpena, and Kiker
- 2015-2016 UF Water Institute: The Water-Energy-Food-Environment nexus: Unintended consequences of interbasin water transfer for hydropower generation and agriculture on the protected environment. Total Award Amount: \$10,000. PI: Rafael Munoz-Carpena. Co-PIs: Jane Southworth, Ray Huffaker, Greg Kiker, Peter Waylen
- 2015-2016 UF Water Institute: Water, Africa, Disease, and Health (WADAH). Total Award Amount: \$10,000. PI: Jane Southworth. Co-PIs: Rafael Munoz-Carpena, Ray Huffaker, Greg Kiker, Jason Blackburn, Brian Child, Greg Glass, Sadie Ryan, Peter Waylen
- 2013-2018 NSF PIRE Program: PARTNERS (People And Reforestation in the Tropics: a Network for Education, Research, and Synthesis). Total Award Amount: \$499,011. University of Connecticut - PI: Robin Chazdon. My role: Collaborator – Networking Grant.
- 2013-2016 Google Earth Outreach Grant / Collaboration. PIs: Jane Southworth and Erin Bunting. Purpose: to bring *Google Earth Engine*, *Google Maps Engine*, *Open Data Kit*, *Timelapse*, and *Google Tours* into the Introductory Remote Sensing Class. This collaboration enabled our students to have contact with cutting edge remote sensing technology available through the Google array. This introduces our student to big data analysis via access to the extensive Google data catalog. Furthermore, the open data kit program is a tablet based field collection technique. Note: There is no direct money from this. The collaboration enabled our students to access a resource that only a couple other universities around the world have. Specifically other collaborations have been set up at Stanford, Cal Tech, and Princeton.
- 2011-2013 NSF PIRE – Collaborative Research: Catalyzing New International Collaborations: Interdisciplinary workgroup on water sustainability in the Tempisque Basin, NW Costa Rica. PI: Rafa Munoz-Carpena, My role: Participating Faculty. \$50,000.
- 2011-2015 NSF-CNH Program. Global Sensitivity & Uncertainty Analysis in the Evaluation of Social Ecological Resilience: Theoretical Debates over Infrastructure Impacts on Livelihoods & Forest Change. \$1.6 million. PI: Dr. Stephen Perz. My role: Senior Investigator.
- 2010-2012 Planning Grant For: The Florida Climate Institute and an NSF Science and Technology Center to Understand and Respond to Climate Change

- Submitted by: IFAS: James W. Jones (PI), Keith T. Ingram (Co-PI)  
 CLAS: Jane Southworth (Co-PI) - On behalf of the Florida Climate Institute  
 Interim Faculty Steering Committee. Request \$250,000 to UF's VP for research  
 for the planning grant for collaborative research proposal request.
- 2009-2013 NASA - LCLUC Program. Understanding and predicting the impact of climate  
 variability and climate change on land use and land cover change via socio-  
 economic institutions in Southern Africa. \$871,000. PI: Southworth, J. G. Kiker,  
 Y. Qiu, R. Munoz-Carpena, P.R. Waylen, M.W. Binford, E. Keys, B. Child (all  
 Co-I's).
- 2008-2013 IGERT Competition. Title: Spatial Ecology and Evolution: Quantitative  
 Training in Biology, Statistics, and Mathematics. 2 million. P.I. Ben Bolker. My  
 role: Co-PI, Senior personnel, Advisory Board member.
- 2005-2009 NSF HSD Program: Infrastructure Change, Human Agency, and Resilience in  
 Social-Ecological Systems. PI: Stephen Perz. Co-PIs: Southworth, Kiker,  
 Carpena, Cumming. \$650,000.
- 2005-2006 UF RGP Research Opportunity Incentive Seed Fund. \$72,000 PI Southworth  
 with Co-PIs Dr. Child and Dr. Barnes, "Governance, Land Use and Resource  
 Rights in Southern Africa: Paths toward grassroots democratization." Summer  
 2006.
- 2006-2009 EPA STAR Fellowship. PI Southworth (Student fellowship for Claudia  
 Stickler) "Alternative landscapes along the Amazon's frontier: Simulating  
 future land-use and carbon dynamics in the Xingu River headwaters region"  
 \$30,000 per year
- 2005-2007 NASA Fellowship, \$24,000 per year. PI Southworth (Student funding request  
 for Claudia Stickler). "Alternative landscapes along the Amazon's frontier:  
 Simulating future landuse and carbon dynamics in the Xingu River  
 headwaters region. Only kept for 2005 as then she received an EPA fellowship.
- 2005-2006 PI Southworth, Jaelyn Hall Co-PI. "Biodiversity of a landscape: examining  
 Forest Heterogeneity and Ecological Change in the East Usumbaras. Sponsor:  
 Critical Ecosystem Partnership Fund. \$15,800.
- 2005-2006 P.I. Innovations in Uses of Technology in Instruction. Grant title: Improving  
 Accessibility to a Lab Course CITT technology Grant to computerize the  
 GEO2200 labs, received \$9,200
- 2006 Center for Africa Studies Travel Grant \$400 for the AAG Meetings, Chicago,  
 March 2006.
- 2005 Principal Investigator. "Interactions among Protected Areas, Agricultural  
 Change, and Biodiversity in East Africa" SNRE - New Faculty Support  
 Grant, \$5,000.
- 2005 Co- Principal Investigator. "Roadies Research Group Meta-data and proposal  
 submission" SNRE - Research Programs Grant, \$15,000.

- 2004-2006 NSF, BCS Geography and Regional Science. "Collaborative research: Consequences of Parks for Land Use, Livelihood Diversification, and Biodiversity in East Africa." PI: Goldman, Co-PIs: Binford and Southworth \$184,000.
- 2004-2007 NSF HSD Program: "Economic Growth, Social Inequality and Environmental Change in Thailand and Cambodia" PI: Binford, Co-PI Southworth. \$749,277 (UF Subcontract: \$280,000).
- 2002-2007 NSF IGERT Program: "Working Forests in the Tropics." \$2,000,000. PI: Dan Zarin. My role: Core faculty.

## PUBLICATIONS

### Edited Book Volume

- 2009 Nagendra, H., and Southworth J., Editors 'Reforesting Landscapes: Linking Pattern and Process' Springer's Landscape Series.
- 2002 Doering, O.C., Randolph, J.C., Southworth, J., and R.A. Pfeiffer (Eds.). Effects of Climate Change and Variability on Agricultural Production Systems. Kluwer Academic Publishers, Norwell, MA, USA pp. 275

### Research Papers

- 2017 [79] Guo Cao, Bisheng Wang, Xavier Haro-Carrión, Di Yang, and Jane Southworth. A new difference image creation method based on deep neural networks for change detection in remote sensing images. *International Journal of Remote Sensing*, 38(23): 7161-7175.
- 2017 [78] Fullman, T., Bunting, E., Kiker, G., and **Southworth, J.** Predicted Shifts in Large Herbivore Distribution under Climate Change and Management Scenarios in Kruger National Park, South Africa. *Ecological Modeling*, 352: 1-18.
- 2017 [77] Hannah Herrero, **Jane Southworth**, Erin Bunting, and Brian Child. Observing Vegetation Change Over 72 Years in Gorongosa National Park, Mozambique Using Repeat Photography. *African Studies Quarterly*, 17(2): 65-82.
- 2017 [76] Ryan, S.J., Palace, M., Diem, J., Hartter, J. Chapman, C.A., **Southworth, J.** Population pressure and global markets drove a decade of deforestation in Africa's Albertine Rift. *Applied Geography*, 81: 52-59. [available online <http://dx.doi.org/10.1016/j.apgeog.2017.02.009>]
- 2017 [75] Fullman, T.J., G.A. Kiker, A. Gaylard, J. Southworth, P.R. Waylen and G.I.H. Kerley. Elephant movement responses to vegetation phenology in an aseasonal system, Addo Elephant Park. *Koedoe*; 59 (1): 21 pages. doi:10.4102/koedoe.v59i1.1326

- 2016 [74] Hannah Herrero, **Jane Southworth**, Erin Bunting. Utilizing Multiple Lines of Evidence to Determine Landscape Degradation within protected area landscapes: A Case Study of Chobe National Park, Botswana from 1982 to 2011. *Remote Sensing*, 8 (8): 623, <http://dx.doi.org/10.3390/rs8080623>.
- 2016 [73] Ray Huffaker, Rafael Muñoz-Carpena, Miguel Campo-Bescos, **Jane Southworth**. Demonstrating Correspondence Between Decision-Support Models and Dynamics of Real-World Environmental Systems. *Environmental Modelling & Software*, 83: 74-87.
- 2016 [72] Bunting, E., Fullman, T., Kiker, G., and **Southworth, J.** Utilization of the SAVANNA Ecosystem Model to Analyze Future Patterns of Vegetation Cover in Kruger National Park under IPCC Climate Change Scenarios. *Ecological Modelling*, 342: 147-160.
- 2016 [71] Michael J. Hill, Qiang Zhou, Qingsong Sun, Crystal B. Schaaf, **Jane Southworth**, Niti B. Mishra, Cerian Gibbes, Erin Bunting, Thomas B. Christiansen & Kelley A. Crews, 2016. Dynamics of the relationship between NDVI and SWIR32 vegetation indices in southern Africa: implications for retrieval of fractional cover from MODIS data. *International Journal of Remote Sensing*. [Volume 37](#), [Issue 6](#), pages 1476-1503.
- 2016 [70] Hill, Michael, J., and **Jane Southworth**, 2016. Anthropogenic change in savannas and associated forest biomes. *Journal of Land Use Science*, Volume 11: Issue 1, Pages 1-6.
- 2016 [69] **Southworth, J.**, Zhu, L., Bunting, E., Ryan, S.J., Herrero, H., Waylen, P.R., Hill, M. Changes in vegetation persistence across global savanna landscapes, 1982-2010. *Journal of Land Use Science*, Volume 11, Issue 1, pages 7-32.
- 2015 [68] Ryan, S.J., Southworth, J., Hartter, J., Dowhaniuk, N., Fuda, R., Diem, J. Household level influences on fragmentation in an African park landscape. *Applied Geography* 58: 18-31.
- 2015 [67] Sun, J., **J. Southworth** and Y. Qiu, 2015. Mapping multiscale impacts of deforestation in the Amazonian rainforest from 1986 to 2010. *Journal of Land Use Science*, Volume 10, Issue 2, pages 174-190.
- 2015 [66] Christopher Baraloto, Paula Alverga, Sufer Baéz Quispe, Grenville Barnes, Nino Bejar Chura, Izaias Brasil da Silva, Wendeson Castro, Harrison da Souza, Iracema Elizabeth de Souza Moll, Jim Del Alcazar Chilo, Hugo Dueñas Linares, Jorge Gárate Quispe, Dean Kenji, Matthew Marsik, Herison Medeiros, Skya Murphy, Cara Rockwell, Alexander Shenkin, Marcos Silveira, **Jane Southworth**, Guido Vasquez, and Stephen Perz. 2015. Effects of road infrastructure on forest value across a tri-national Amazonian frontier. *Biological Conservation*, 191, pages 674-681
- 2015 [65] Zhu Likai, Jane Southworth, Jijun Meng. Comparison of the driving forces

of spring phenology among savanna landscapes by combining spatial and temporal heterogeneity. *International Journal of Biometeorology*, October 2015, Volume 59: Issue 10, pp. 1373-1384.

- 2015 [64] Sanchayeeta Adhikari, Jane Southworth and Harini Nagendra. Understanding forest loss and recovery: a spatio-temporal analysis of land change in and around Bannerghatta National Park, India. *Journal of Land Use Science*, 10 (4) DOI: [10.1080/1747423X.2014.920425](https://doi.org/10.1080/1747423X.2014.920425)
- 2014 [63] Baraloto, C., P. Alverga, S. Baéz Quispe, G. Barnes, N. Bejar Chura, I. Brasil da Silva, W. Castro, H. Da Souza, I. De Souza Moll, J. Del Alcazar Chilo, H. Duenas Linares, J. Garate Quispe, D. Kenji, H. Medeiros, C. A. Rockwell, A. Shenkin, M. Silveira, J. Southworth, G. Vasquez, and S. Perz. 2014. Trade-offs among forest value components in community forests of southwestern Amazonia. *Ecology and Society* XX(YY): ZZ. [online] URL: <http://www.ecologyandsociety.org/volXX/issYY/artZZ/Research>
- 2014 [62] Waylen, P.R., Southworth, J., Gibbes C. and H. Tsai. Time series analysis of land cover change: Developing statistical tools to determine significance of land cover changes in persistence analyses. *Remote Sensing*, 6, 4473-4497.
- 2014 [61] Sun, J., Z. Huang, Q. Zhen, J. Southworth and S. Perz. Fractally deforested landscape: Pattern and process in a tri-national Amazon frontier. *Applied Geography*, 52: 204-211.
- 2014 [60] Gibbes, C., Southworth, J., Waylen, P. and B. Child. Climate variability as a dominant driver of post-disturbance savanna degradation or recovery. *Applied Geography*, 53: 389-401.
- 2014 [59] Tsai, H., Southworth, J. and P. Waylen. Spatial persistence and temporal patterns in vegetation cover across Florida, 1982-2006. *Physical Geography*, 35(2): 151-180.
- 2014 [58] Sun, J., J. Southworth. And Y. Qiu Mapping multiscale impacts of deforestation in the Amazonian rainforest from 1986 to 2010, *Journal of Land Use Science*. DOI: 10.1080/1747423X.2013.858785
- 2013 [57] Miguel A. Campo-Bescos, Rafael Muñoz-Carpena, Jane Southworth, Likai Zhu, Peter R. Waylen and Erin Bunting. Combined spatial and temporal effects of environmental controls on monthly NDVI in southern Africa savannas. *Remote Sensing*, 5, 6513-6538.
- 2013 [56] Southworth, J., Rigg, L., Gibbes C., Waylen, P., Zhu, L., McCarragher, S., Cassidy, L. Integrating dendrochronology, climate and satellite remote sensing to better understand savanna landscape dynamics in the Okavango Delta, Botswana. *LAND*, 2: 637-655.
- 2013 [55] Campo-Bescos, M.A., R. Munoz-Carpena, D.A. Kaplan, J. Southworth, L. Zhu and P.R. Waylen. Beyond precipitation: physiographic thresholds dictate the relative importance of environmental drivers on savanna vegetation. *PLoS ONE*, 8(8): e72348. doi:10.1371/journal.pone.0072348

- 2013 [54] J. Sun, J. Southworth. Retrospective analysis of landscape dynamics using normalized spectral entropy. *Remote Sensing Letters*, Vol. 4, No. 11, 1049–1056, <http://dx.doi.org/10.1080/2150704X.2013.836286> .
- 2013 [53] Likai Zhu and Jane Southworth. Disentangling the relationships between net primary production and precipitation in southern Africa savannas using satellite observations from 1982 to 2010. *Remote Sensing*, 5, 3803-3825; doi:10.3390/rs5083803
- 2013 [52] J. Sun, J. Southworth. Indicating landscape connectivity in Amazonian Rainforests from 1986 to 2010 using morphological image processing analysis, *International Journal of Remote Sensing*, 34(14): 5187-5200.
- 2013 [51] Cassidy, L., J. Southworth, C. Gibbes, & M.W. Binford. Beyond classifications: Combining continuous and discrete approaches to better understand land-cover change within the lower Mekong River region. *Applied Geography*, 39: 26-45.
- 2013 [50] Erin Bunting, Jessica Steele, Eric Keys, Shylock Muyengwa, Brian Child, Jane Southworth. 2013. Local Perception of Risk to Livelihoods in the Semi-Arid Landscape of Southern Africa. *LAND* 2(2): 225-251.
- 2013 [49] Xia Cui, Cerian Gibbes, Jane Southworth, Peter Waylen. 2013. Using Remote Sensing to Quantify Vegetation Change and Ecological Resilience in a Semi-arid System. *LAND*, 2(2): 108-130.
- 2013 [48] Sun, J., Z. Huang, J. Southworth. Y. Qiu. Mapping fractality during the process of deforestation in an Amazon tri-national frontier, *Remote Sensing Letters*, 4:6, 589 -598. DOI:10.1080/2150704X.2013.771827.
- 2013 [47] Perz, S., Y. Qiu, Y. Xia, J. Southworth, J. Sun, M. Marsik, K. Rocha, V. Passos, D. Rojas, G. Alarcon, G. Barnes, C. Baraloto. Trans-boundary Infrastructure and Land Cover Change: Highway Paving and Community-level Deforestation in a Tri-national Frontier in the Amazon Land Use Policy, *Land Use Policy*, 34, 27 - 41.
- 2013 [46] Sun, J., & J. Southworth. Remote sensing-based fractal analysis and scale dependence associated with forest fragmentation in an Amazon tri-national frontier. *Remote Sensing*, 5(2): 454-472.
- 2012 [45] Southworth, J., H. Nagendra, & L. Cassidy. Evaluating forest transition pathways in Asia : Case studies from Nepal, India, Thailand and Cambodia. *Land Use Science*, 7 (1): 51-65.
- 2012 [44] Adhikari, S., & J. Southworth. Simulating forest cover changes of Bannerghatta National Park on a CA-Markov model. *Remote Sensing*, 4(1): 3215-3243.
- 2012 [43] Gonzalez-Roglich, M., Southworth J., & Branch L.C. The role of private



lands for conservation: Land cover change analysis in the Calgenal savanna ecosystem, Argentina. *Applied Geography*, 34: 281-288.

- 2012 [42] Hartter, J., S.J. Ryan, J. Southworth, & C. Chapman. Landscapes as continuous entities: forest disturbance and recovery in the Albertine Rift landscape. *Landscape Ecology*, 26(6) 877-890
- 2012 [41] Cumming, G.S., J. Southworth, X.J. Rondon, & M. Marsik. Spatial complexity in fragmenting Amazonian rainforests: Do feedbacks from edge effects push forests towards an ecological threshold? *Ecological Complexity*, 11: 67-74
- 2012 [40] Gaughan, A., F. Stevens, C. Gibbes, J. Southworth & M. Binford. Linking vegetation response to seasonal precipitation in the Okavango-Kwando-Zambezi catchment of southern Africa. *International Journal of Remote Sensing*, 33:21, 6783-6804
- 2012 [39] Rhondon, X.J., G.S. Cumming, R.E. Cossio & J. Southworth. The effects of selective logging behaviors on forest fragmentation and recovery. *International Journal of Forestry Research*, Volume 2012, Article ID 170974, 10 pages doi:10.1155/2012/170974
- 2011 [38] Marsik, M., Stevens, F., and Southworth J. Patterns and Rates of Deforestation in Pando, Bolivia from 1986 to 2005. *Progress in Physical Geography*, 35(3): 353-374
- 2011 [37] Wyman, M. S., Stein, T. V., Southworth, J., & Horwich, R. H. Does Population Increase Equate to Conservation Success? Forest Fragmentation and Conservation of the Black Howler Monkey. *Conservation & Society*, 9(3).
- 2011 [36] Southworth J., Marsik, M., Qui, Y., Perz, S., Stevens, F., Rocha, K., Cumming G., Barnes, G., Roads as drivers of change: MAP region land cover change trajectories from 1986 to 2005: dominant trends and comparisons across the tri-national frontier. *Remote Sensing*, 3(5): 1047-1066.
- 2010 [35] Southworth J. and C. Gibbes. Remote Sensing within the field of Land Change Science: Past, present and future directions. *Geography Compass*. 4 (12): 1695-1712.
- 2010 [34] L. Cassidy, M. Binford, J. Southworth and G. Barnes. Social and ecological factors and land-use land-cover diversity in two provinces in south-east Asia. *Land Use Science*, Vol 5(4): 277-306.
- 2010 [33] Hartter, J., Goldman, A.C., and J. Southworth. Responses by Households to Resource Scarcity and Crop Raiding in Communities Near a Forest Park. *Journal for Nature Conservation*. 19 (2): 79-86.
- 2010 [32] P. Mondal and J. Southworth. Evaluation of conservation interventions using cellular automata-Markov model. *Forest Ecology and Management*. 260: 1716-1725.

- 2010 [31] Southworth, J., Hartter, J., Binford, M.W., Goldman, A.C., Chapman, C.A., Chapman, L.J., Omeja, P., and E. Binford. Landscape effects of an East African national park on the protected tropical forest and its surrounding area. *Tropical Conservation Science* 3(2): 122-142.
- 2010 [30] Gibbes, C, Adhikari, S., Rostant, L, Southworth, J. Application of Object Based Classification and High Resolution Satellite Imagery for Savanna Ecosystem Analysis. *Remote Sensing*. 2 (12): 2748-2772.
- 2010 [29] Duccio Rocchini; Niko Balkenhol; Gregory A Carter; Giles M Foody; Thomas W Gillespie; Kate S He; Salit Kark; Noam Levin; Kelly Lucas; Miska Luoto; Harini Nagendra; Jens Oldeland; Carlo Ricotta; Jane Southworth; Markus Neteler. Remotely sensed spectral heterogeneity as a proxy of species diversity: recent advances and open challenges. *Ecological Informatics*. 5, 318-329.
- 2010 [28] Nikhil Lele, Harini Nagendra and Jane Southworth. Accessibility, Demography and Protection: Drivers of Forest Stability and Change at Multiple Scales in the Cauvery Basin, India *Remote Sens*. 2010, 2, 306-332
- 2009 [27] P. Mondal and J. Southworth. Protection vs. Commercial Management: Spatial and Temporal Analysis of Land Cover Changes in the Tropical Forests of Central India. *Forest Ecology and Management*. 259 (5): 1009-1017
- 2009 [26] Hartter, J. and J. Southworth. Dwindling resources and fragmentation of landscapes around parks: wetlands and forest fragments around Kibale National Park, Uganda. *Landscape Ecology*, 24: 643-656
- 2009 [25] A. Gaughan, M. Binford, J. Southworth. Tourism, forest conversion and land transformations in the Angkor basin, Cambodia. *Applied Geography*, 29: 212-223
- 2009 [24] Cerian Gibbes, Jane Southworth, and Eric Keys. Wetland conservation: Change and fragmentation in Trinidad's protected areas. *GeoForum* 40: 91-104
- 2008 [23] C.M. Stickler and J. Southworth. Application of a multi-scale spatial and spectral analysis to predict primate occurrence and habitat associations in Kibale National Park, Uganda. *Remote Sensing of Environment*, 112: 2170-2186.
- 2008 [22] Amy Daniels, Katie Painter and Jane Southworth. *Milpa* imprint on the tropical dry forest landscape in Yucatan, Mexico: Remote sensing & field measurement of edge vegetation. *Agriculture, Ecosystems and Environment*, 123: 293-304.
- 2007 [21] D.K. Munroe, H. Nagendra, and J. Southworth. Monitoring Landscape Fragmentation in an inaccessible mountain area: Celaque National Park, Western Honduras. *Landscape and Urban Planning*, 83: 154-167

- 2006 [20] Southworth, J., G.S. Cumming, M. Marsik, and M.W. Binford. Linking Spatial and Temporal Variation at Multiple Scales in a Heterogeneous Landscape. *Professional Geographer* 58(4): 406-420
- 2006 [19] Southworth, J., H. Nagendra and D.K. Munroe, 2006. Are parks working? Exploring human-environment tradeoffs in protected area conservation. *Applied Geography*, 26(2): 87-95
- 2005 [18] Cumming, G.S., G. Barnes, S. Perz, M. Schmink, K. E. Sieving, J. Southworth, M. Binford, R. D. Holt, C. Stickler, T. Van Holt. An Exploratory Framework for the Empirical Measurement of Resilience. *Ecosystems*, 8(8): 975-987.
- 2005 [17] Tucker, C., D. Munroe, H. Nagendra, and J. Southworth. Comparative Spatial Analyses of Forest Conservation and Change in Honduras and Guatemala. *Conservation and Society*, 3(1): 174-200
- 2005 [16] O'Neal, M.R., M.A. Nearing, R.C. Vining, J. Southworth, and R.A. Pfeifer. Climate change impacts on soil erosion in Midwest United States with changes in crop management. *Catena*, 61: 165-184
- 2005 [15] Nagendra H., J. Southworth, C. Tucker, M. Karmacharya, B. Karna, and L. Carlson. Remote sensing for policy evaluation: Monitoring parks in Nepal and Honduras. *Environmental Management*, 34(5): 748-760
- 2004 [14] Southworth J., H. Nagendra, L.A. Carlson, and C. Tucker. Assessing the impact of Celaque National Park on forest fragmentation in Western Honduras. *Applied Geography*.24: 303-322
- 2004 [13] Munroe, D., J. Southworth, and C. Tucker. Modeling Spatially and Temporally Complex Land-Cover Change: The Case of Western Honduras. *Professional Geographer*, 56(4): 544-559
- 2004 [12] Southworth, J. An assessment of Landsat TM Band 6 thermal data for analyzing land cover in tropical dry forests. *International Journal of Remote Sensing*, 25: 689-706
- 2004 [11] Southworth, J., D. Munroe, and H. Nagendra. Land cover change and landscape fragmentation - Comparing the utility of continuous and discrete analyses for a Western Honduras region. *Agriculture, Ecosystems and Environment*, 101: 185-205
- 2004 [10] Nagendra, H., D.K. Munroe, and J. Southworth. From pattern to process: landscape fragmentation and the analysis of land use/land cover change. *Agriculture, Ecosystems and Environment*, 101: 111-115
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[http://www.ihdp.uni-bonn.de/html/publications/update/pdf-files/IHDPUpdate\\_01\\_2004.pdf](http://www.ihdp.uni-bonn.de/html/publications/update/pdf-files/IHDPUpdate_01_2004.pdf)

- 2003 [8] Nagendra, H., J. Southworth, and C. Tucker. Accessibility as a determinant of landscape transformation in Western Honduras: linking pattern and process. *Landscape Ecology*, 18: 141-158
- 2002 [7] Southworth, J., M. Habeck, R.A. Pfeifer, J.C. Randolph, O. Doering, and G. Rao. The sensitivity of winter wheat yields in the Midwestern United States to future changes in climate, climate variability, and CO<sub>2</sub> fertilization. *Climate Research*, 22: 73-86.
- 2002 [6] Munroe, D., J. Southworth, and C. Tucker. The Dynamics of Land-Cover Change in Western Honduras: Exploring Spatial and Temporal Complexity, *Agricultural Economics* 27: 355-369.
- 2002 [5] Southworth, J., M. Habeck, R.A. Pfeifer, J.C. Randolph, O. Doering, J. Johnston, and G. Rao. Changes in soybean yields in the Midwestern United States as a result of future changes in climate, climate variability, and CO<sub>2</sub> fertilization. *Climatic Change*, 53: 447-475
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- 2001 [2] Southworth, J., and C.M Tucker. Forest cover change in western Honduras: the role of socio-economic and biophysical factors, local institutions, and land tenure. *Mountain Research and Development*, 21: 276-283
- 2000 [1] Southworth, J., J.C. Randolph, M. Habeck, O.C. Doering, G. Rao, R.A. Pfeifer, and J. Johnston. Consequences of future climate change and changing climate variability on corn yields in the Midwestern United States. *Agriculture, Ecosystems and Environment*, 82: 139-158

## Book Chapters

- IN PRESS **Jane Southworth**, Harini Nagendra, Sadie J. Ryan, Erin Bunting, Cerian Gibbes, Hannah Herrero, and Agarwal. Protected Areas, Climate Change and Ecosystem Sustainability. INVITED (Southworth) Book Chapter Contribution for: Book #9 in "Remote Sensing Applications for Societal Benefits". Editor: Dr. Stephen Walsh, as part of the series on *Comprehensive Remote Sensing* edited by Shunlin Liang at the University of Maryland and published by Elsevier.

- 2013 Stephen G. Perz, Youliang Qiu, Yibin Xia, Jing Sun, Jane Southworth, Karla Rocha, Grenville Barnes (2013) "Political Ecology and Land Change Science in the Study of Infrastructure Impacts." Forthcoming as Chapter 8 in *Synergies and Divergences between Land Change Science and Political Ecology*, eds. C. Branstromm and J. Vadjunec. Manuscript 31 pages + 2 maps.
- 2012 Nagendra, H., P. Mondal, S. Adikari and J. Southworth. Peopled parks: Forest change in India's protected landscapes. Pp 113-140 in *Human-environment interactions: current and future directions*. Editors Eduardo S. Brondizio and Emilio F. Moran. Springer, 434 pages.
- 2012 Gibbes, C., L. Cassidy, J. Hartter, and J. Southworth. The monitoring of land-cover change and management across gradient landscapes in Africa. Pp. 165-212 in *Human-environment interactions: current and future directions*. Editors Eduardo S. Brondizio and Emilio F. Moran. Springer, 434 pages.
- 2010 Southworth, J. "Parks and reserves" 4 page entry in Encyclopedia of Geography, SAGE Publications, 3560 pages.  
[http://www.sage-ereference.com/geography/Article\\_n859.html](http://www.sage-ereference.com/geography/Article_n859.html).
- 2009 Southworth, J and H. Nagendra. Reforestation: Challenges and Themes in Reforestation Research. Chapter 1 in Nagendra, H., and J. Southworth. *Reforesting Landscapes: Linking Pattern to Process*. Springer Landscape Series.
- 2009 Hartter, J\*, J. Southworth, M.W. Binford. Parks as a Mechanism to Maintain and Facilitate Recovery of Forest Cover: Examining Reforestation, Forest Maintenance and Productivity in Uganda. Chapter 11 in Nagendra, H., and J. Southworth. *Reforesting Landscapes: Linking Pattern to Process*. Springer Landscape Series.
- 2009 Nagendra, H. and J. Southworth, 2009. Reforestation: Conclusions and Implications. Chapter 16 in Nagendra, H., and J. Southworth. *Reforesting Landscapes: Linking Pattern to Process*. Springer Landscape Series
- 2009 G. S. Cumming, G. Barnes and J. Southworth. Environmental asymmetries. Chapter 2 in Norberg, J., and Cumming, G. S. (editors). *Complexity Theory for a Sustainable Future*. Columbia Press.
- 2008 Goldman, A., Hartter, J., Southworth, J., Binford, M. The human landscape around the island park: impacts and responses to Kibale National Park. In: Wrangham, R. and E. Ross (Eds.). *Science and Conservation in African Forests: The Benefits of Longterm Research*. pp. 129-144. Cambridge University Press, Cambridge.
- 2005 Southworth, J. Encyclopedia Entries for the book: "*Our Earth's Changing Land: An Encyclopedia of Land-Use and Land-Cover Change*" Edited by Helmut Geist, Greenwood Press, Westport, Connecticut, pp. 715. *Coffee*, Volume I, pp. 130-132; *Continuous Data*, Volume I, pp. 142-143; *Discrete Data*, Volume I, pp.

170; *Thermal Band Analysis*, Volume II, pp. 590-591

- 2005 Tucker, C. M. and J. Southworth. Processes of Forest Change at the Local and Landscape Levels in Honduras and Guatemala. Pg.253-277, in: *Seeing the Forest and the Trees: Human-Environment Interactions in Forest Ecosystems*, ed. Emilio F. Moran and Elinor Ostrom. MIT Press.Cambridge, MA pp. 442
- 2004 Southworth, J., D. Munroe, H. Nagendra, and C. Tucker. Forest Degradation and Fragmentation Within Celaque National Park, Honduras. Pp. 305-310, In *WorldMinds: Geographical Perspectives on 100 Problems*, Eds D.G. Janelle, B. Warf, and K. Hansen, Kluwer Academic Publishers, Boston, pp. 635
- 2002 Southworth, J. Issues and Approaches to Climate Change Concerns, Chapter 2, pp. 21-42. In: Doering, O.C., J.C. Randolph, J. Southworth, and R.A Pfeiffer (Eds.), *Effects of Climate Change and Variability on Agricultural Production Systems*. Kluwer Academic Publishers, Norwell, MA, USA pp. 275
- 2002 Southworth, J. Climate Scenario Construction for Midwest Analysis, Chapter 5, pp. 85-100. In: Doering, O.C., J.C. Randolph, J. Southworth, and R.A Pfeiffer (Eds.), *Effects of Climate Change and Variability on Agricultural Production Systems*. Kluwer Academic Publishers, Norwell, MA, USA pp. 275
- 2002 Southworth, J., R.A. Pfeifer, M. Habeck and G. Rao. Crop Modeling Results Under Climate Change, Chapter 7, pp.127-158. In: Doering, O.C., J.C. Randolph, J. Southworth, and R.A Pfeiffer (Eds.), *Effects of Climate Change and Variability on Agricultural Production Systems*. Kluwer Academic Publishers, Norwell, MA, USA pp. 275
- 2002 Pfeifer, R.A., J. Southworth, O.C. Doering and L. Moore. Climate Variability Impacts on Farm-level Risk, Chapter 9, pp. 179-192. In: Doering, O.C., J.C. Randolph, J. Southworth, and R.A Pfeiffer (Eds.), *Effects of Climate Change and Variability on Agricultural Production Systems*. Kluwer Academic Publishers, Norwell, MA, USA pp. 275
- 2002 Doering, O.C., J.C. Randolph, J. Southworth and R.A., Pfeifer. Conclusions, Chapter 13, pp. 265-272. In: Doering, O.C., J.C. Randolph, J. Southworth, and R.A Pfeiffer (Eds.), *Effects of Climate Change and Variability on Agricultural Production Systems*. Kluwer Academic Publishers, Norwell, MA, USA pp. 275

#### Reviews/Other

- 2012 Global Land Project Newsletter. "Infrastructure, institutions and land cover change: a comparative analysis in the Southwestern Amazon." S. Perz, Y. Qiu, Y. Xia, J. Sun, G. Barnes, J. Southworth, K. Rocha. No. 8, 29 - 31.
- 2009 Global Land Project Newsletter. "Climate, land-use/land-cover change and institutional response: A multi-scalar approach to human environment interactions in southern Africa." Andrea E. Gaughan, Forrest R. Stevens, Cerian Gibbes, Jane Southworth, Eric Keys, Brian Child, Peter Waylen, Greg Kiker, Rafael Muñoz-Carpena, Michael W. Binford.

- 2007 J. Southworth. Book Review of 'Emerging Threats to Tropical Forests'. Edited by William F. Laurance and Carlos A. Peres. *Quarterly Journal of Biological Sciences*.
- 2006 Southworth, J. Conserving Biodiversity in agricultural landscapes: Model based planning tools. Book Review. *Landscape Ecology*, 21(2): 309-310
- 2003 Southworth, Jane. MAPublisher 5.0 : Turning GIS Maps into Art. *Geospatial Solutions*, 13: 51-53
- 2001 Munroe, D., J. Southworth, and C.M. Tucker. The Dynamics of Land-Cover Change in Western Honduras: Spatial Autocorrelation and Temporal Variation. Paper presented at the American Agricultural Economics Association (AAEA) Annual Meeting, Chicago, Ill., August 5-8. Published by AAEA
- 2001 Williams, A.N., M. Nearing, M. Habeck, J. Southworth, R.A. Pfeifer, O.C. Doering, J. Lowenberg-DeBoer, J.C. Randolph, and M.A. Mazzocco. Global Climate Change: Implications of Extreme Events for Soil Conservation Strategies and Crop Production in the Midwestern United States. ISCO Special Publication.
- 2000 Reviewer for the 'Overview: Climate Change Impacts on the United States: The Potential Consequences of Climate Variability and Change' National Synthesis Team, U.S. Global Change Research Program, Cambridge University Press, USA, pp. 153

### Journal Volumes

- 2015 Guest editor with Prof. Michael Hill, on "Savanna system dynamics and human landscapes." *Journal Land Use Science*
- 2013 Guest editor, Special Issue of *LAND*, "Landscape Changes in Savanna Systems: Understanding the Roles of Climate, Vegetation Dynamics, Parks and Protected Areas, Resources, People and Livelihoods"
- 2006 Guest editor (with D. Munroe and H. Nagendra), Special Issues of *Applied Geography*, "Are Parks Working? Exploring Human-Environment Tradeoffs in Protected Area Conservation" Volume 26 (2), pp. 87-174. April 2006
- 2004 Guest Editor (with D. Munroe and H. Nagendra), Special Issue of *Agriculture, Ecosystems and Environment* "From Pattern to Process: Landscape Fragmentation and the Analysis of Land Use/Land Cover Change"

## PRESENTATIONS

### INTERNATIONAL MEETINGS

- 2015 Ryan, S.J., **Southworth J.**, Hartter J., Fuda R., Dowhaniuk N., Diem J. 2015. "Household level influences on fragmentation in an African park landscape." *27<sup>th</sup> International Congress for Conservation Biology and 4<sup>th</sup> European Congress for Conservation Biology*. August 2-6th, 2015. Montpellier, France.
- 2014 Submitted a session proposal for the: 2014 GLOBAL LAND PROJECT OPEN SCIENCE MEETING in Berlin, Germany, March 19 - 21, 2014. Title: *UTILIZING TIME SERIES ANALYSES TO ENHANCE UNDERSTANDINGS OF SYSTEM DYNAMICS*. Session was accepted. Co-organizers Dr. Harini Nagendra and Dr. Cerian Gibbes.
- 2014 Southworth, J. Zhu, L., Waylen, P.R., Munoz Carpena R, Huffaker, R., Using dynamic factor analysis to model the combined spatial and temporal effects of environmental covariates on NDVI in southern Africa and to develop new land change analysis techniques. 2014 GLOBAL LAND PROJECT OPEN SCIENCE MEETING in Berlin, Germany, March 19 - 21, 2014
- 2014 Bunting, E., Steele, J., Keys, E., Child, B., Southworth, J. Patterns and perceptions: the impact of climate and environmental variability on people and vegetation in the savanna landscapes of Southern Africa. 2014 GLOBAL LAND PROJECT OPEN SCIENCE MEETING in Berlin, Germany, March 19 - 21, 2014
- 2011 Southworth, J., Gibbes, C., Cui, X., Waylen, P., Child, B., Binford, M., Keys, E., and Qui, Y. On the broad scale relationships between changes in vegetation and precipitation for southern Africa, and linkages to land use, management and conservation. 9th Annual Savanna science Networking Meeting, 13-18 March 2011, Kruger National Park, South Africa.
- 2011 Brian Child, Shylock Muyengwa, Patricia Mupeta, Rodgers Lubilo, J. Southworth, C. Gibbes Collaborative, adaptive science: using the "Governance Dashboard" to understand and improve community governance in CBNRM Programmes, Making Science Relevant To Protected Area Management - Spanning The Bridge To Implementation, 9th Annual Savanna Science Networking Meeting, 13-18 March 2011. Kruger National Park, South Africa.
- 2010 Hartter, J., Ryan, S.J., Southworth, J., Goldman, A.C., Binford, M.W., and C.A. Chapman. *Upcoming*. Fortresses and Fragments: Impacts of Fragmentation in a Forest Park Landscape. IUFRO Landscape Ecology International Conference. September 21-27, 2010. Bragança, Portugal.
- 2009 Panel submitted and accepted for the International Human Dimensions Program - IHDP Meeting (held only once every 3 years) in India, October 2008. Was postponed to May 2009 and moved to Bonn, Germany. Drivers of Change: Patterns and Processes of Urbanization in Developing and Developed Areas\* *Endorsed by IHDP-UGEC (Urbanization and Global Environmental Change Core Project)*. Organizers: Harini Nagendra, Darla Munroe and Jane Southworth.
- 2008 Panel member and invited and fully supported guest of the NSF supported Germany-US Conference 'Tough Choices - Land Use under a Changing Climate' in Berlin September 2008. Also got to nominate and support one graduate student. Cerian Gibbes went with me and presented a poster presentation on her research. In addition another of my PhD students was present, Claudia Stickler, also nominated and supported by NSF.



- 2008 Gibbes, C., Southworth, J. Land management and land cover change: An examination of the impact of protected area management on savanna heterogeneity, German-US Conference: Tough Choices – Land Use Under a Changing Climate, Berlin, Germany. September 2008.
- 2007 Goldman, A. and J. Hartter. Southworth, J., Binford, M., Chapman, C., Chapman, L., Omeja, P., Twinomugisha, D., and A. Kasangaki. 2007. Human (& Biological) Landscapes around Kibale National Park. Kibale Chimpanzee Project 20th Anniversary Workshop. June 15-17, 2007. Kibale National Park, Uganda.
- 2005 Panel session submitted and accepted to the 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, "Global Environmental Change, Globalization and International Security: New Challenges for the 21st Century," taking place from 9-13 October 2005 in Bonn, Germany. Our panel session is titled "Contextualizing the Pixel: Comparing Continuous and Discrete Methods for Regional Studies of Human Dimensions on Land-Use/Cover Change (LUCC) Research" I am a session organizer, panel chair and presenter.
- 2005 Southworth, J., M. Binford, A. Goldman, J. Hartter, C. Chapman, and L. Chapman– Footsteps on the land: detecting and analyzing change within a continuous landscape framework in and around Kibale National Park, Uganda. 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, "Global Environmental Change, Globalization and International Security: New Challenges for the 21st Century," October 2005, Bonn, Germany.
- 2005 Munroe, D.K., C. Calder, and J. Southworth. IHDP – Darla Multivariate multiple regression models of land cover: can land use drivers predict continuous land cover outcomes? 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, "Global Environmental Change, Globalization and International Security: New Challenges for the 21st Century," October 2005, Bonn, Germany.
- 2004 Southworth, J. The Use of Remote Sensing for Spatial and Temporal Analysis of Landscape Change. Presented at the Caribbean Research Meeting in Puerto Rico, May 2004.
- 2004 Nagendra, H., J. Southworth, C.M. Tucker, B. Karna and M. Karmacharya.. Remote Sensing for Policy Evaluation: Monitoring Parks in Nepal and Honduras. At the 2004 meeting of the International Association for the Study of Common Property, 9-14 August 2003, Oaxaca, Mexico.
- 2003 Nagendra, H., and J. Southworth. Seeing reforestation patterns, inferring institutional processes. Presented at the *1st International Young Scientists Global Change Conference*, Trieste, Italy.
- 2003 Southworth, J., D. Munroe, and H. Nagendra. Investigating alternatives to classification analyses: From models to landscapes. Presented at the *2003 Open Meeting of the Human Dimensions of Global Environmental Change Research Community*, Montreal, Canada.
- 2001 Doering, O.C., R. A. Pfeifer, J. Southworth, and J.C. Randolph. Farm Level Adaptation Strategies under Global Climate Change in the Upper Midwestern United States. *Global Change Open Science Conference of the International Geosphere-Biosphere Project (IGBP)*. Amsterdam, The Netherlands.

- 2001 Tucker, C.M., J. Southworth, and H. Nagendra. Environmental and Social Processes Contributing to Reforestation Trends in Western Honduras. *Global Change Open Science Conference of the International Geosphere-Biosphere Project (IGBP)*, Amsterdam, The Netherlands.
- 2001 Nagendra, H., J. Southworth and C.M. Tucker. Fragmentation of a Landscape. Presented at the *Center for Ecological Sciences Seminar Series, Indian Institute of Science, Bangalore, India*.
- 1999 Southworth, J. Consequences of future climate change and changing climate variability on corn yields in the Midwestern United States. *GCTE Focus 3 Conference*, Reading, England.

#### NATIONAL MEETINGS

- 2016 Southworth, J., Likai Zhu, Erin Bunting, Sadie Ryan, Hannah Herrero, Peter Waylen, Michael Hill. Changes in vegetation persistence across global savanna landscapes, 1982-2010. Annual Association of Geographers Meeting, San Francisco, CA, April 2016.
- 2016 Carrion, Haro Xavier and Jane Southworth. Classifying a highly fragmented forest landscape in Ecuador. Annual Association of Geographers Meeting, San Francisco, CA, April 2016.
- 2016 Audrey Smith and Jane Southworth. A time series analysis of climate-driven vegetation change and child stunting in the country of Zambia. AAG 2016 Annual Meeting, San Francisco CA. April, 2016
- 2016 DEVELOPED AND RAN NATIONAL SYMPOSIUM ON DRYLAND RESEARCH - MENLO PARK, CA. MARCH 2016.
- 2015 Ryan, S.J., **Southworth, J.**, Hartter, J., Dowhaniuk, N., Fuda, R., Diem, J. 2015. "Household level influences on fragmentation in an African park landscape." Association of American Geographers (AAG) Annual Meeting, April 21-25, 2015, Chicago, IL.
- 2015 **Southworth**, Waylen, Bunting, Zhu, Huffaker, Campo-Bescos, Munoz-Carpena, and Kaplan. Using time-series and dynamic factor analysis to model and explain the combined spatial and temporal effects of environmental drivers on vegetation growth in southern Africa. Association of American Geographers (AAG) Annual Meeting, April 21-25, 2015, Chicago, IL.
- 2015 Panel Session: Supporting women in Remote Sensing and GIS. *Organizer(s)*: Timothy Warner - West Virginia University and Michaela Buenemann - New Mexico State University . *Panelist(s)*: Elizabeth A. Wentz - Arizona State University, Lindsay Deel - West Virginia University, Daoqin Tong - University of Arizona - Geography & Regional Development, **Jane Southworth** - University of Florida, Christopher D. Lippitt - University of New Mexico and Beth Mitchneck - University of Arizona. Association of American Geographers (AAG) Annual Meeting, April 21-25, 2015, Chicago, IL.
- 2015 Xavier Haro-Carrión and **Jane Southworth**. 2015. The performance of random forests to classify a fragmented landscape of semi-deciduous tropical forests. Southeastern Division of the American Association of Geographers (SEDAAG) Annual Meeting. Pensacola, FL.

- 2014 Erin Leigh Bunting, Greg Kiker, Timothy J. Fullman, Jane Southworth. Utilization of the SAVANNA Model to Analyze Future Patterns of Vegetation Cover in Kruger National Park under IPCC Climate Change Scenarios. AAG Annual Meeting, Tampa, FL April 2014.
- 2014 Mehmet Ozdes and Jane Southworth. Vegetation Change Detection in Kruger National Park and Surrounding Landscapes as a Function of Tourism Development and Park Conservation. AAG Annual Meeting, Tampa, FL April 2014.
- 2014 Likai Zhu and Jane Southworth. Interannual variability of global terrestrial net primary production derived from satellite observations, 1982-2010. AAG Annual Meeting, Tampa, FL April 2014.
- 2013 Lesley Rigg, Jane Southworth, Cerian Gibbes, Peter Waylen, Shannon McCarragher, Lin Cassidy. *Linking dendrochronology, satellite remote sensing and climate in savanna landscapes, Botswana*. AAG National Meeting, Los Angeles, CA, USA. April 2013.
- 2013 Jane Southworth, Cerian Gibbes, Peter Waylen, Brian Child. *How do climate variability and climate change influence vegetation cover and vegetation change in dryland ecosystems across Southern Africa?* AAG National Meeting, Los Angeles, CA, USA. April 2013.
- 2013 Peter Waylen, Jane Southworth, Cerian Gibbes and Huiping Tsai. Developing Time Series Analyses and Statistical Significance of Land Cover Change Processes in Vegetation Persistence Analyses. AAG National Meeting, Los Angeles, CA, USA. April 2013.
- 2013 Richard Aspinall, Jane Southworth, Dan Brown, Andrew Millington. Closing Plenary of the Land Systems Science Symposium. AAG National Meeting, Los Angeles, CA, USA. April 2013.
- 2013 Erin Bunting and Jane Southworth. Utilization of Remotely Sensed Spectral Indices to Differentiate Vegetation Patterns in Savanna Landscapes. AAG National Meeting, Los Angeles, CA, USA. April 2013.
- 2011 Xanic J. Rondon, Graeme C. Cumming, Rosa Cossio and Jane Southworth. Simulations of Selective Logging Behaviors and Spatial Patterns of Forest Fragmentation. Resilience 2011, March 11-16<sup>th</sup>, Tempe, Arizona.
- 2011 Gibbes, C., Southworth, J., Waylen, P., Cui, X., Bunting, E. Assessing ecological response of savanna landscapes to climate change. Florida Society of Geographers Annual Meeting, Gainesville Fl.
- 2011 Gibbes, C., Southworth, J., Waylen, P., Cui, X., Bunting, E. Measuring ecological responses to climate change: Long term vegetation trends in southern African savannas. *Graduate Student Council Forum, University of Florida, Gainesville, Florida*.
- 2010 Bunting, E.L\*, Gibbes, C., Southworth, J. 2010. The Impact of Climate Vulnerability /Change on the Semi-Arid Savanna Landscape of Southern Africa. NSF Conference. University of Florida . October 25-26, 2010.
- 2010 X. Ciu, C. Gibbes\*, J. Southworth and P.R. Waylen, 2010. Measuring Semi-arid Savanna Cyclical Patterns and Dynamics. *Florida Climate Institute Meeting, Tallahassee, Fl*

- 2010 Bunting, E., Gibbes, C., Southworth, J. Climate Variability Across the Kwando, Okavango, and Zambezi Catchments. *Florida Climate Institute Meeting, Tallahassee, Fl.*
- 2010 Southworth, J., Binford, M., Waylen, P., Keys, E., Child, B., Cassidy, L., Qiu, Y., Kiker, G., Mundos-Carpena, R., Gibbes, C., Gaughan, A., Stevens, F., Steele, J., Bunting, E., Sun, J., Mwenga, S., Falcon, G. Predicting the impact of climate variability and climate change on land use and land cover change via socio-economic institutions in Southern Africa. *Florida Climate Institute Meeting, Tallahassee, Fl.*
- 2010 Gibbes, C., Ciu, X., Southworth, J. Quantifying cyclical climate-land patterns and dynamics in semi-arid savannas. *Florida Climate Institute Meeting, Tallahassee, Fl.*
- 2010 Gibbes, C., Southworth, J., Cui, X., Waylen, P. Quantifying ecological resilience in African savannas. *Global Land Project Open Science Meeting, Tempe, Arizona. October 2010*
- 2010 Eric Keys, Brian Child, Jessica Steele, Patricia Mupeta, Cerian Gibbes, Shylock Muyengwa, Erin Bunting, Jing Sun, Jane Southworth, Lin Cassidy; Southern African livelihood and land cover change as a response to institutional and environmental change. *Global Land Project Open Science Meeting, Tempe, Arizona. October 2010*
- 2010 SOUTHWORTH, J., H. NAGENDRA, L. CASSIDY. Forest transition pathways in Asia - Case studies from Nepal, India, Thailand and Cambodia. *Association of American Geographers Annual Meeting, Washington DC. April 14-18, 2010.*
- 2010 Mondal, P. and Southworth, J. 2010. Exploring the utility of ASTER thermal bands in measuring protected area effectiveness. *Association of American Geographers Annual Meeting, Washington DC. April 14-18, 2010.*
- 2010 Bunting, E.L, Gibbes, C., Southworth, J. Impacts of Seasonal Precipitation Shifts on the Landscape of Southern Africa. *Association of American Geographers Annual Meeting, Washington DC. April 14-18, 2010.*
- 2010 Gibbes, C., Adhikari, S., Southworth, J. Evaluating ecological status in semi arid African savannas: A multi-scalar and multi platform approach to quantifying savanna composition. *Association of American Geographers Annual Meeting, Washington DC. April 14-18, 2010.*
- 2010 PANELIST: FIELDWORK IN AN AFRICAN SETTING III. Annual Association of American Geographers (AAG) Meeting. April 2010
- 2010 Mondal, P. and Southworth, J. Using CA-Markov model to investigate the importance of national level policy in forest conservation. *Florida Society of Geographers Annual Meeting. 15-17 January 2010, Tampa, FL. Paper Presentation.*
- 2009 Southworth, Perz, Marsik, Rocha, Stevens and Qiu. "Land Cover Change Patterns and Processes: Linking to Infrastructure Change and Resilience in Social-Ecological Systems: The Case of Southwestern Amazonia" Annual Association of American Geographers (AAG) Meeting. March 2009

- 2009 Invited Panel Member Panel “ Challenges of collaborative and interdisciplinary research projects “ with Jane Read, Richard Aspinall, Dan Brown, David Bennet, and Billie Turner. Annual Association of American Geographers (AAG) Meeting. March 2009
- 2009 Jane Southworth, Stephen Perz, Youliang Qiu, Matt Marsik, Karla Rocha, Forrest Stevens, 2009. Resilience in a Social-Ecological Systems: The Case of Southwestern Amazonia. Florida Society of Geographers, St. Augustine, FL, Feb 2009.
- 2009 Pinki Mondal and Jane Southworth. Graduate Student Council Interdisciplinary Conference, UF. ‘30 Years of Protection: Is Pench Tiger Reserve a Success Story?’ February 2009.
- 2008 Rutgers Conference. Invited and fully supported participant of the ‘Land Use Transition in the Tropics’ Conference. March 2008. Presentation title: ‘Evaluating forest transition pathways in Asia - Case studies from Nepal, India, Thailand and Cambodia.
- 2008 Invited Colloquium Presentation. Indiana University, School of Public and Environmental Affairs. ‘Infrastructure Change, human Agency and Resilience in Social-Ecological Systems: The Case of Southwestern Amazonia.’ October 2008.
- 2008 Joel Hartter, Sadie Ryan, Jane Southworth. Examining the Change in Forests and Wetlands in and Around Kibale National Park, Uganda. Presented at Conservation Biology Annual Meeting. Chattanooga, TN, July 13-17, 2008
- 2007 Jane Southworth, Lin Cassidy, Michael W Binford. “What's with all the classifications? Using continuous approaches to land cover change analyses within the Lower Mekong River Region.” AAG Annual Meeting Presentation, San Francisco, CA, April 2007.
- 2007 Invited Panelist: ‘Becoming a Writer I: Physical Geography and GIS’. Session Chair: Kathryn Davis - San Jose State University. Panelists: Jane Southworth - University of Florida, Molly E. Brown - Science Systems and Applications (NASA), James H. Speer - Indiana State University, David M. Helgren - San Jose State University, Robert Gilmore Pontius - Clark University, Gary Pereira - San Jose State University. AAG Annual Meeting, San Francisco, CA, April 2007.
- 2007 Invited Panelist: ‘Experience, Ideas, and Issues with Curricula on Human-dimensions/human-environment/nature-society’.. Session Chairs: Martha E. Geores - University of Maryland, Karl Zimmerer - University of Wisconsin - Madison. Panelists: Billie L. Turner - Clark University, Diana M. Liverman - University Of Oxford, Gregory W. Knapp - University Of Texas - Austin, David L. Carr - UC Santa Barbara, Jennifer L. DeHart - Allegheny College, Jane Southworth - University of Florida, Karl Zimmerer - University of Wisconsin - Madison. Martha E. Geores - University of Maryland. AAG Annual Meeting, San Francisco, CA, April 2007.
- 2007 Cerian Gibbes and Jane Southworth. “Turning up the heat.” AAG Annual Meeting Presentation, San Francisco, CA, April 2007.
- 2007 Matt Marsik, Karla Rocha, Jane Southworth, Frank Barra, I. Foster Brown, and Stephen Perz. “Land Cover Change in the MAP Region, Southwestern Amazonia: Driven by Road Expansion” AAG Annual Meeting Presentation, San Francisco, CA, April 2007.

- 2007 Karla Rocha, Matt Marsik, Jane Southworth, Frank Barra, I. Foster Brown, and Stephen Perz. "Methods of Data Standardization for Image Processing and Land Cover Change Analysis in the Tri-National Frontier of Madre de Dios (Peru), Acre (Brazil), and Pando (Bolivia) - MAP" AAG Annual Meeting Presentation, San Francisco, CA, April 2007.
- 2006 Co-Organizer and Chair, 5 Special sessions under the overarching theme *Linking Social & Ecological Systems*. **Session I: Theory, Rationale & Necessity for Integrating Social & Ecological Systems**, **Session II: Governance & Tenure**, **Session III: Livelihoods**, **Session IV Landscape-level Analysis & Remote Sensing and Session V: Infrastructure & Connectivity**. Annual Meeting of the Association of American Geographers, Chicago, USA, March 2006
- 2006 Southworth, J., M. Binford, J. Hartter, A. Goldman, C. Chapman, and L. Chapman. Linking social and ecological systems in Uganda: Interactions among Protected Areas, Land Cover Change, Land Use and Biodiversity. Annual Meeting of the Association of American Geographers, Chicago, USA, March 2006.
- 2006 Hartter, J., A. Goldman, M. Binford, C. Chapman, L. Chapman, and J. Southworth. *Environmental Services and Hazards of Wetlands and Forest Patches in Western Uganda*. Annual Meeting of the Association of American Geographers, Chicago, USA, March 2006.
- 2006 Binford, M., L. Cassidy, J. Felkner, R.M. Townsend, A.L. Kolata, and J. Southworth. How to study the combined domains of environment, economics, and social behavior in Thailand and Cambodia. Annual Meeting of the Association of American Geographers, Chicago, USA, March 2006.
- 2006 Southworth, J., M. Binford, and J. Hartter. *Hotspots and Change: Using thermal analyses for improving land cover classifications*. Annual Meeting of Florida Society of Geographers, St. Petersburg, FL, February 2006.
- 2006 Hartter, J., A. Goldman, M. Binford, C. Chapman, L. Chapman, and J. Southworth. *Services and Hazards of Wetlands and Forest Patches For Communities Around Kibale National Park, Uganda*. Annual Meeting of Florida Society of Geographers, St. Petersburg, FL, February 2006.
- 2006 Goldman, A., J. Hartter, J. Southworth, and M. Binford. "Superpixels" on the Landscape *Meso-scale sampling to study livelihoods, land use, land cover, and biodiversity around Kibale National Park, Uganda*. Annual Meeting of Florida Society of Geographers, St. Petersburg, FL, February 2006.
- 2005 Southworth, J., M. Binford, A. Goldman, C. Chapman, L. Chapman, and E. Binford. Land Cover Change and Fragmentation in and around Kibale National Park, Uganda. Annual Meeting of Florida Society of Geographers, Orlando FL, February 2005
- 2005 Marsik, M., J. Southworth, G. Cumming and M. Binford. Variance across space and time in north-central Florida. Meeting of Florida Society of Geographers, Orlando FL, February 2005
- 2004 Nagendra, H., J. Southworth and C. Tucker. Accessibility as a Determinant of Landscape Transformation in Western Honduras: Linking Pattern and Process. In Seminar Series on 'Space Matters: Research That Uses Geospatial Information, GIScience, Remote Sensing, and Other Spatial Matters', Stanford University, April 7th.

- 2004 Southworth, J., G. Cumming, and M. Matthew. Spatial versus Temporal Analysis of Landscape Change in North Central Florida. Presented at the *100th meeting of the Association of American Geographers*, Philadelphia, PA.
- 2004 Munroe, D., H. Nagendra, and J. Southworth. Protection, topography and market accessibility: Examining forest fragmentation in Celaque National Park, Western Honduras. Presented at: *100th meeting of the Association of American Geographers*, Philadelphia, PA.
- 2003 Southworth, J., D. Munroe and C. Tucker. Forest fragmentation and degradation in a protected area: Celaque National Park, Western Honduras. *South Eastern Division of the Association of American Geographers (SEDAAG) Annual Meeting*, Charleston, South Carolina.
- 2003 Southworth, Jane, Darla Munroe and Harini Nagendra. Fragmentation and Land Cover Change Research – Addressing the issues of continuous versus discrete analyses for a study area in Western Honduras. At the *99th Annual Meeting of the Association of American Geographers*, New Orleans.
- 2003 Tucker, C. M., and J. Southworth. Coffee Culture, Market Volatility and Environmental Change in Western Honduras. Presented at the *Annual Meeting of the American Anthropological Association*, Chicago, IL.
- 2002 Nagendra, H., J. Southworth and C. Tucker. (2002). Accessibility as a determinant of landscape transformation in Western Honduras: Linking pattern and process. Presented at the *98th Annual Meeting of the Association of American Geographers*, 23-29 March 2002, Los Angeles.
- 2002 Southworth, J, H. Nagendra, and C. Tucker. Forest cover change in a western Honduras community: accessibility and protection as determinants of landscape transformation. *Working Forests in the Tropics: Conservation through sustainable management*, Gainesville, FL.
- 2002 Southworth J, J.C. Randolph, O.C. Doering, and R.A. Pfeifer. Farm level adaptation strategies under global climate change in the Upper Midwestern United States. *Florida State Geographers Annual Conference*, Gainesville FL.
- 2002 Tucker, C. M., D. Munroe, H. Nagendra and J. Southworth. Environmental Processes in Honduras and Guatemala: The Complementarity of Ethnographic and Spatially Explicit Approaches. Presented at the *Annual Meeting of the American Anthropological Association*, New Orleans, November 20-24, 2002.
- 2001 Southworth, J., H. Nagendra, and C.M. Tucker. Using landscape metrics to interpret land cover change in Western Honduras and to monitor infringement into Celaque National Park. *86th Annual Meeting of the Ecological Society of America*. University of Wisconsin, Madison, WI.
- 2001 Munroe, D., J. Southworth, and C.M. Tucker. The Dynamics of Land-Cover Change in Western Honduras: Spatial Autocorrelation and Temporal Variation. *American Agricultural Economics Association (AAEA) Annual Meeting*, Chicago, IL.

- 2001 Nagendra, H, J. Southworth, and C.M. Tucker. Using landscape metrics to interpret trajectories of land cover change: A case study in Western Honduras. *16<sup>th</sup> Annual Symposium of the U.S. Chapter of International Association of Landscape Ecology*, pp. 177, 25-29 April 2001, Arizona State University, Tempe, AZ.
- 2001 Southworth, J., J.C. Randolph, O. Doering, M. Habeck, and R.A. Pfeiffer. Midwestern crop growth under climate change: Implications and adaptations for maize, soybeans and wheat. *The 97<sup>th</sup> Annual Meeting of the Association of American Geographers*, New York City, NY.
- 2000 Southworth, J., J.C. Randolph, O.C. Doering, M. Habeck, R.A. Pfeifer, and M.A. Mazzocco. Climate change or changing climate variability: Which is worse for crop growth in the midwestern region of the United States? *85<sup>th</sup> Annual Meeting of the Ecological Society of America*, Snowbird, UT.
- 2000 Southworth, J., C. Tucker, and J.C. Randolph. Seeing the forest for the trees: Forest change analysis in La Campa, Western Honduras. *The 96<sup>th</sup> Annual Meeting of the Association of American Geographers Annual Meeting*.
- 2000 Pfeifer, R.A., J. Southworth, M. Habeck, J.C. Randolph, O.C. Doering, and M.A. Mazzocco. Impact of Climate Change on Crop Yields in the Midwest. Presented at the *ASA-CSSA-SSSA Annual Meetings*. Minneapolis, MN. Pittsburgh, PA.
- 1999 Williams, A., M. Nearing, M. Habeck, J. Southworth, R. Pfeifer, O. Doering, J. Lowenberg-DeBoer, J.C. Randolph, and M. Mazzocco. Global Climate Change: Implications of Extreme Events for Soil Conservation Strategies and Crop Production in the Midwestern United States, *The 10<sup>th</sup> International Soil Conservation Conference*, West Lafayette, IN.
- 1998 Doering, O.C., M. Habeck, J. Lowenberg-DeBoer, R.A. Pfeifer, J.C. Randolph, J. Southworth, and M. Mazzocco. Assessing Climate Change Impacts and Adaptation: Expert Panel Contributions. *American Society of Agronomy Annual Meetings*, Baltimore, MD.
- 1998 Southworth, J., and J.C. Randolph. The implications of current and future climate variability on crop growth in the Midwestern region of the United States. *83<sup>rd</sup> Annual Meeting of the Ecological Society of America*. *Bulletin of the Ecological Society of America* 79:219. Baltimore, MA.
- 1998 Southworth, J, J.C. Randolph, O.C. Doering, M. Habeck, M. Mazzocco, J. Lowenberg-DeBoer, and R. Pfeifer. Preliminary report of the Eastern Midwest Climate Change Workshop presented at the *Workshop for the USGCRP-sponsored National Assessment of the Potential Consequences of Climate Change and Variability*, Monterey, CA.
- 1998 Doering, O.C., M. Habeck, J. Lowenberg-DeBoer, R.A. Pfeifer, J.C. Randolph, J. Southworth, and M. Mazzocco. Assessing climate change impacts and adaptation:



Expert panel contributions. *Environmental Sciences and Engineering Symposium*. Purdue University, West Lafayette, IN.

- 1997 Doering, O.C., M. Habeck, J. Lowenberg-DeBoer, R.A. Pfeifer, J.C. Randolph, J. Southworth, and M. Mazzocco. Organizer and Moderator for the *Annual Meeting of the American Agricultural Economics Association*, "American and Canadian Experiences in Interdisciplinary Research Assessing Adaptation to Global Warming."
- 1997 Southworth, J., A. Conea-Floyd, J.J. Johnston, and J.C. Randolph. A classification scheme for dry tropical forest and utilization of the thermal band: Yucatan, Mexico. *82<sup>nd</sup> Annual Meeting of the Ecological Society of America*, Albuquerque, NM.
- 1997 Southworth, J. Climate change modeling development for the Midwestern study region. *National Center for Atmospheric Research (NCAR)*, Boulder, CO.
- 1995 Southworth, J., and C.S.B. Grimmond. Variation of stomatal resistances within urban areas. *The 91<sup>st</sup> Annual Meeting of the Association of American Geographers*, Chicago, IL.

#### INVITED - UNIVERSITY OF FLORIDA

- 2016 Southworth, Jane, Spring 2015. Changes in vegetation persistence across global savanna landscapes, 1982-2010. Biocomplexity Engineering group Seminar Series.
- 2016 Audrey Smith and Jane Southworth. Climate, Vegetation Dynamics & Child Undernutrition in Zambia. UF Climate Institute 3 Minute Thesis Contest; Oral Presentation. Florida Climate Institute, UF, February, 2017
- 2016 Audrey Smith and Jane Southworth. Climate, Vegetation Change and Child Health in Zambia. UF NRM in Africa working group. March, 2016
- 2016 Audrey Smith and Jane Southworth. The interspatial relationship of NDVI and child undernutrition in Zambia. Department of Geography Colloquium. April, 2016
- 2013 Invited talk in the 'Odum Water and wetlands' Series. Vegetation change and climate variability analysis using remotely sensed time series analyses.
- 2013 Geography Department Colloquium. Vegetation persistence under increasing climate variability across Southern Africa.
- 2010 Moderator. Adaptive Water Management Strategies for Transitioning Environment. Water Institute, Gainesville, FL. Feb 2010.
- 2009 Invited panel member. UF panel addressing the question "Is Collapse Imminent?" Thursday, April 16. 2009. Invited panel member with Dr. Mark Brenner, Dr. Michael Binford, Dr. Michael Mosley, Dr. Bron Taylor and Dr. Jim Jones.
- 2009 Guest Lectures for courses GEO3151: Foundations of GIS and GEO 5177: Research in GIS on 'Remote Sensing: What is it and how does it relate to GIS?'

- 2009 'REDD and Remote Sensing' – invited to present and run a seminar in course taught by Jack Putz on UF Campus, February 2009.
- 2008 Guest Lectures for courses GEO3151: Foundations of GIS and GEO 5177: Research in GIS on 'Remote Sensing: What is it and how does it relate to GIS?'
- 2007 Guest Lectures for courses GEO3151: Foundations of GIS and GEO 5177: Research in GIS on 'Remote Sensing: What is it and how does it relate to GIS?'
- 2007 'Women in Academia' Faculty Panel Member for a workshop.
- 2006 Colloquium to Sigma Xi. Footsteps on the landscape: Monitoring land cover change in and around Kibale National Park, Uganda. December 2006
- 2006 Colloquium in the Entomology department. Monitoring Land use, Land cover change and Implications for Biodiversity: Kibale National Park, Uganda. November 2006
- 2006 Colloquium to the SFRC Department. Seeing the Forest? Seeing the Trees? Advantages and Disadvantages of Satellite Remote Sensing Analyses, Using Examples from Kibale National Park, Uganda. October 2006.
- 2006 SNRE Colloquium Faculty Panel on Interdisciplinarity within Academia. September 2006.
- 2006 Guest Lectures for courses GEO3151: Foundations of GIS and GEO 5177: Research in GIS on 'Remote Sensing: What is it and how does it relate to GIS?'
- 2005 Colloquium in the Botany department. Footsteps on the landscape: detecting and analyzing landscape change in and around Kibale National Park, Uganda and Tarangire National Park, Tanzania. October 2005
- 2005 SNRE Colloquium Series Presentation. Footsteps on the landscape: detecting and analyzing landscape change in and around Kibale National Park, Uganda and Tarangire National Park, Tanzania. November 2005
- 2005 Guest Lectures for courses GEO3151: Foundations of GIS and GEO 5177: Research in GIS on 'The use of Remote Sensing in GIS'
- 2005 Guest Lecture on 'The use of Remote Sensing in Landscape Ecology' in WIS 6468C: Pattern and Process in Landscape Ecology, taught by Dr. Graeme Cumming, WEC.
- 2004 Guest Lecture on 'The use of Remote Sensing in Landscape Ecology' in WIS 6468C: Pattern and Process in Landscape Ecology, taught by Dr. Graeme Cumming, WEC.
- 2004 Guest Lectures (3 per semester) for courses GEO3151: Foundations of GIS and GEO 5177: Research in GIS, as part of a team teaching these courses.
- 2004 Guest Lecture on 'Integrating Satellite Analyses within Resilience Studies: A way to link land use to land cover?' in WIS 6934C: Resilience Class taught by Dr. Graeme Cumming.
- 2003 Guest Lecture on 'The use of Remote Sensing in Landscape Ecology' in WIS 6468C: Pattern and Process in Landscape Ecology, taught by Dr. Graeme Cumming.

- 2003 Guest Lectures (3 per semester) for courses GEO3151: Foundations of GIS and GEO 5177: Research in GIS, as part of a team teaching and revising these courses.
- 2003 Seminar: Helped to create and lead (along with 3 graduate students: Andres Guhl, Tracy Van Holt, and Claudia Stickler) a 1-day workshop on Geographic Methods
- 2003 Department of Geography, Colloquium Presentation, February 14<sup>th</sup> 2003. Title: "Continuous versus discrete data analysis using remotely sensed images: An example from Western Honduras"
- 2002 Seminar: Helped to create and lead (along with 3 graduate students: Andres Guhl, Tracy Van Holt, and Claudia Stickler) a 1-day workshop on Geographic Methods. Created labs, gave lecture, found readings etc.
- 2002 School of Forest Resources and Conservation, Colloquium Presentation, "Seeing the forest for the trees: Forest change analysis in La Campa, Western Honduras"
- 2002 Seminar for brownbag lunchtime series on remote sensing and crops in the school of Agricultural Engineering, University of Florida, Gainesville, Florida, "Remote Sensing, Crop Modelling and Forests"
- 2001 Nagendra, H., J. Southworth and C.M. Tucker.. Accessibility and Protection as Determinants of Landscape Transformation in Western Honduras: Linking Pattern and Process. Presented at the Environmental Science Seminar, School of Public and Environmental Affairs (SPEA), Indiana University, Bloomington, Indiana.

#### INVITED – GAINESVILLE COMMUNITY

- 2016 Southworth, Jane, February 2015. Changes in Land Cover with Time: Examples from Florida, South Africa and the Amazon. Oak Hammock Seminar Series, Gainesville FL.
- 2016 Southworth, Jane. Technology from Space: the Role of Geography' Series of 4 presentations given at Oak Hall School, Gainesville, FL for Science day. Spring 2015.
- 2009 Oak Hammock Retirement Community Seminar : Role of Remote Sensing and GIS in Geography. November 2009
- 2005 Oak Hammock Retirement Community Seminar : Hurricanes & Tornadoes. October 2005
- 2005 Childs Elementary school. Talked to 5<sup>th</sup> grade classes (2) about 'Weather and Weather Forecasting'. November 2005
- 2005 J.J. Finley Elementary school. Talked to 3<sup>rd</sup> and 4<sup>th</sup> graders about Extreme Weather and weather Forecasting. November 2005.

## COURSES TAUGHT

### Graduate Level

Seminar in Land Change Science  
Seminar in Current Climatic Change  
Seminar in Climate Variability and Change in Africa  
Environmental Remote Sensing  
Geographic Information Systems (GIS) in Research  
Advanced Techniques in Environmental Remote Sensing  
Publish or Perish - the publication process in Academia  
How to Survive (and Thrive) in Academia  
Geography Colloquium  
Research Methods in Geography

### Undergraduate Level

Geographical Sciences and Sustainability  
Introduction to Human Geography  
Introduction to Physical Geography  
Weather and Climate  
Introduction to GIS  
Digital Image Processing  
Extreme Weather  
The Good Life

## SERVICE

### National and International Service

2013-2017 T&P external reviewer for multiple universities [8]  
2015-2016 External Reviewer for Dissertation: Cape Town, Norway  
2015-2016 External reviewer for European Funding Agencies in Remote Sensing  
2013-2014 Panelist NSF GSS  
2017-current Consulting Editor: *"Geographical Analysis"*  
2013-current Editorial Advisor Board member 'Journal of Land Use Science'  
2014-current Editorial Advisor Board member 'LAND'  
2013-current Editorial Advisor Board member 'Current Conservation'

- 2016 Guest Editor, Special Issue of *Journal of Land Use Science*, in association with Dr. Michael Hill, Savanna Systems and Human Degradation. Published Volume 11: 2016 (April)
- 2009-2013 Member, NASA Science Team
- 2010 Co-leader for the Geography Faculty Development Alliance (GFDA) Workshop, where with Dr. Kenneth Foote (University of Colorado, Boulder), Dr. Scott Freundsuh (NSF GSS Programs) and Dr. J.W. Harrington (University of Washington) we ran a full week of activities and development aimed at new geography faculty. The Geography Faculty Development Alliance is a long-term, broad-based project to improve the learning and teaching of geography in higher education. The aim is to provide early career faculty and advanced doctoral students with the theoretical and practical knowledge needed to excel in the lecture hall, seminar room, and laboratory. Key objectives of the project are to foster a culture of support and success for early career faculty, to help them understand the fundamental interconnections between their teaching and research, and to advance the scholarship of teaching and learning across the entire discipline. I was a workshop participant 8 years ago, and this year was invited to return to help lead it.
- Dec 2010 Invited Panel member for NSF Social Observatories National Panel. 3-day meeting to approve ideas for a national network of social observatories to the NSF directorate.
- Dec 2010 External examiner of PhD dissertation for The University of Queensland
- 2009-2011 Panel member for NSF, GSS reviews (twice yearly meetings with 190+ proposals)
- 2010 Sponsor, Fully funded Visiting Scholar, Xia Cui, from the College of Earth and Environmental science, Lanzhou University, PR China. Doctoral Candidate
- 2009-2011 Sponsor. Xanic Rhondic, Peruvian visiting scholar on the MAP project. Providing her mentorship and space in the NASA lab in geography for her research.
- 2010 Reviewer European Proposals for STEREO Program. Invited to be panelist for final review board in Netherlands but unable to attend.
- Feb 2011 Reviewer of European Funding Agencies for Professorship Awards.
- 2009 External reviewer. Asian Institute of Technology, Review for Tenure and Promotion to Associate Professor
- 2011- Editorial Board Member of a new journal: 'Land' First Published 2011. [International]
- 2007-2011 Editorial Board Member of a new journal: 'Current Conservation' First Published 2008. [International]
- 2000-2009 Editorial Advisory Board member: *Agriculture, Ecosystems and Environment* [International - published in Europe]
- 2009 Reviewed for tenure at SNRE, University of Michigan.
- 2009 Reviewed dissertation research proposal for European Universities
- 2006 Co-Organizer and Chair, 5 Special sessions under the overarching theme ***Linking Social & Ecological Systems***. **Session I: Theory, Rationale & Necessity for Integrating Social & Ecological Systems**, **Session II: Governance & Tenure**, **Session III: Livelihoods**, **Session IV**

*Landscape-level Analysis & Remote Sensing and Session V: Infrastructure & Connectivity.*  
Annual Meeting of the Association of American Geographers, Chicago, USA, March 2006

- 2005 Panel session submitted and accepted to the 6th Open Meeting of the Human Dimensions of Global Environmental Change Research Community, "Global Environmental Change, Globalization and International Security: New Challenges for the 21st Century," taking place from 9-13 October 2005 in Bonn, Germany. Our panel session is titled "Contextualizing the Pixel: Comparing Continuous and Discrete Methods for Regional Studies of Human Dimensions on Land-Use/Cover Change (LUCC) Research".
- 2004 Co-Organizer and Co-Chair, Special session I-IV "Are parks working? Exploring tradeoffs in protected area conservation" at the 100<sup>th</sup> Annual Meeting of the Association of American Geographers, Chair, H. Nagendra, Co-Chair, D. Munroe
- 2003 Reviewer of paper for the Early Career Award for the Remote Sensing Specialty Group and Photogrammetric Engineering and Remote Sensing.
- 2002 Co-Organizer and Co-Chair, Special session I-III "Landscape fragmentation and the analysis of land use/land cover change: from pattern to process" at the 98<sup>th</sup> Annual Meeting of the Association of American Geographers, Chair, D. Munroe
- 2002-Present Reviewer for NSF and NIGEC proposals (2-3 per year)
- 2002-Present Reviewer for: *GeoJournal, International Journal of Remote Sensing, BioTropica, Photogrammetric Engineering and Remote Sensing, Landscape Ecology, Climate Research, Climatic Change, Agriculture, Ecosystems and Environment, Landscape Research, Ambio, Agricultural Systems, Forest Science, Applied Geography, Annals of the Association of American Geographers, GeoForum, Professional Geographer, PLOSONE, Global Change Biology, Remote Sensing*

### **University Service**

- 2015-2018 Elected to serve 3-year term on the Graduate Council
- Fall 2013 Hosted UF Visitor - Dr. Michael Mann, Penn State
- Fall 2013 Drafted memo on Preemince hires, structures and procedures in CLAS
- 2013-2014 Chair - Steering Committee: Preeminence Cluster for Spatial and Mathematical Modeling of Disease -  
Hired: Dr. Gregory Glass  
Hired: Dr. Derek Cummings
- 2013-2014 Member - Search Committee for Latin American Studies Faculty  
Hired: Dr. Susan Paulson
- 2013-2014 Member - Steering Committee: Preeminence Cluster for Latin American Development  
Hired: Dr. Catherine Tucker  
Hired: Dr. Bob Walker

2013-2014	External Member – Search Committee for BioComplexity; Agricultural and Biological Engineering Search.
2009-current	Member and Chair of the new proposed Florida Climate Institute Advisory Board, led by Director: Dr. J. Jones Ag. Biological Engineering.
2002-current	Land Use and Environmental Change Institute Coordinator: organize meetings and space allocation for graduate student researchers. Currently undertaking a number of key tasks (given current fiscal crisis), in terms of preparing a report on the current state of LUECI: Funding, professors involved, student research, projects, and related publications etc.
2010-current	Nominated to serve on the Water Institute Advisory Board. Nominated by Prof. Wendy Graham, Director, Water Institute
2004-2012	SNRE board and member of committee of SNRE Curriculum Committee
2008-2012	Nominated for (and accepted) SNRE Faculty Advisory Board Member
2010	UFRFP Review Committee
2010	CLAS SEED Proposal Review Committee
2009-2010	CLAS Travel awards committees (Summer, Fall and Spring)
2009-2010	CLAS Mentoring Awards Committee
2009-2010	CLAS Dissertation fellowship Review Committee
2009-2010	CLAS Doctoral Adviser Mentorship Review Committee
2009-2010	Water Institute Symposium Planning Committee Member
2008-2010	Water Institute Symposium Board Member
2008-2009	Sponsored a visiting fellow (Amintas) for the Gordon and Betty Moore foundation
2008	Requested University level reviewer for Dr. Fletcher, nominated for an Oak Ridge Associated Universities Ralph E. Powe Junior Faculty Enhancement Award
2008	UF SEED grant reviewer for CLAS
2006-2008	Member College Curriculum Committee
2002-current	Land Use and Environmental Change Institute Coordinator: organize meetings and space allocation for graduate student researchers. Currently undertaking a number of key tasks (given current fiscal crisis), in terms of preparing a report on the current state of LUECI: Funding, professors involved, student research, projects, and related publications etc.

2006, 2009	CLAS Dissertation Advisors of the Year Selection Committee
2006, 2008, 2009	CLAS Dissertation Fellowship Selection Committee
2006-2008	Member College Curriculum Committee
2006-2007	Member of the Task force for Distance and E-Learning at UF
2006	Panel Proposal reviewer for IGERT students – Nov 2006
2005 – 2009	Member of the Harn Museum Faculty Council
2005	CLAS Teacher of the Year Awards Committee
2005	Reviewer, SNRE Mini-Grants (3)
2004	PREVIEW Advisor, University of Florida
2002-2004	Reviewer of the Tropical Conservation and Development Program Summer Research Grants Proposals.

## Departmental Service

### CHAIR:

I took over on a 3-year term as Department Chair as of August 16<sup>th</sup> 2016. In addition to the regular items I perform as Chair – payroll, checking all financials and appointment letter, FARs, Effort certification, all grants and travel approvals, teaching assignments, course scheduling, and continuous liaison with shared services, I also chose a number of items to focus on in my first year as Chair. As such, for the first year of this position my target priorities were to undertake a major departmental renovation of our physical space and update the media/handouts, webpages and social media presence. To date the following items have been completed or are underway:

1. Renovation
  - a. Entire Department (not faculty offices) was painted in Fall 2016. This included all public corridors, both labs [3018 and 3006], classroom [3012], graduate student lab [3014] and the main office. I selected all colors, gained college approvals and worked with the project manager to get this completed. Completed in Spring 2017.
  - b. I designed a complete overhaul for the main office space – this included the removal of a temporary wall and then full redesign of space. The main office got a new reception desk I obtained through surplus [free] and lounge furniture for the coffee area I obtained when the union was getting rid of its old stuff [free]. In addition I acquired various bookcases and hutches to make the front office into a much more functional and inviting space for all the department to use. Now we have a reception desk as you enter and a complete coffee lounge for use by all department members. It has proven very popular. We also provide coffee daily for free. Completed Spring 2017. Technology for this space still in progress – see below.
  - c. Renovated Chair and Senior Secretary offices – all furniture was obtained for free, moved from other spaces or purchased by the Chair. Office space now much more inviting and much improved work environment. Completed Fall 2016.



d. Hall Displays

- i. Two large pieces were created by me and hung on banners with frames made. The first piece is a word map using all key terms from each faculty member – to describe what they do. This word map clearly illustrates the different areas of study ongoing in our program in an eye catching and visually appealing manner. The second piece is a 5' x 10' satellite image of the world. This has been installed. Over summer we hope to add the QR code, digital tags, so that students and interested faculty can scan the codes to see ongoing research by different faculty and graduate student groups, occurring across the world. The QR codes will link to our webpage where we can keep the information current and up to date. These will also link to the 24 research project posters the faculty are creating. This will provide an interesting and interactive display. Both banners are created, printed and hung, with frames, and only awaiting QR codes and webpages on the satellite image map. Hope to complete this over Summer 2017.
- ii. I created 8 posters advertising: the four focus areas for our program, the study abroad program, our 2 certificates and the new medical geography and global health degree program. These are professionally printed and mounted in permanent displays in our department. Completed Spring 2017.
- iii. I requested research posters be created by ALL faculty who had ongoing research projects – funded through the end of December 2017. I created a poster template for this, to maintain consistency in appearance. For each project 1 poster is being created highlighting faculty involved, funding agency, dates of projects and highlights from the work. There are a total of 24 such funded projects in Geography and to date approximately 16 posters have been submitted to me. These have been professionally printed and mounted in the Department.
- iv. Office Assignments, Name boards and Information. I developed a requirement for full hours to be posted by each faculty member's office, along with contact information, office hours and a photo. These have been professionally mounted next to every faculty member's office. In addition, all rooms are labeled in this manner and clearly identified. All labs and classrooms have schedules posted clearly outside and again the look is all the same (branding) and the information holders were professionally mounted to maintain a consistent look and feel throughout the Department. It is now very clear when you wander through the department that you are in a space assigned to Geography.
- v. This summer final displays will be created – full floor map with all offices labeled (Geography, Sociology and European Studies Center) and a full Geography Department Directory will be created and posted. In addition within the main office the graduate student board and faculty boards will be completed.
- vi. Technology development is underway – all developed and submitted – awaiting installation at this point. We have a 4-monitor wall going into the main office for digital displays. This will be used to advertise activities and talks occurring within the department, provide a live radar stream, promote our research and also engage in outreach and broader geographical promotional videos etc. (e.g., on GIS, NASA, AAG etc.) This should be installed Spring 2017 so we can then use summer to develop and push out our digital content. Linked to this is an additional monitor in the main hallway outside room 3016 – which will compile the information from within the main office displays and promote outside in the hallway. This has been ordered and again is awaiting install. Finally we hope to also have a video display inside the graduate student lab, TUR3014. Due to costs we are not able to complete this during this fiscal year but hope to add this

component to our digital displays next year. Given Geography is a very visual discipline, i.e. lots of map analyses and spatial interpretations, use of imagery, GIS etc. we hope to better engage our target audience via such technology displays. Static displays, while useful (such as all our informational boards) can only do so much!

2. A consistent message and theme

- a. In December 2016 I ran a retreat for all faculty in our program where we discussed the focus areas of our department. This was based on discussions with the Dean where I was asked to do the same and thought this would be a really useful process for our program to engage in. We had an all day retreat December 9<sup>th</sup> 2016 and at this retreat we developed 4 Focus Areas for our program and we wrote out a description of this. In addition faculty were asked to self identify with 1 or at most 2 of these themes as their major focus. This information was then compiled for the posters and also updated on the website. All the faculty agreed with the focus areas and it was a really useful process. In the upcoming year we plan to develop a new strategic plan, but this initial step was required before we can take this to next stage.

**Geography's four focus areas are:**

- i. **Earth System Science**
- ii. **Medical Geography in Global Health**
- iii. **Geospatial Analysis and Techniques**
- iv. **Global, Environmental and Social Change**
  - a. *Politics and the environment*
  - b. *Resources, environment and society*
  - c. *Regional and Global: economic, political, demographic and social change*

3. Inaugural Annual Awards Banquet. This year saw our inaugural awards banquet where we recognized our award winners for our 2 major awards: the Poehling Award and the Dunkle Award. In addition I created 8 new, additional awards, each of \$150.00 [money coming from our fund that faculty donate to], in the areas of publications, teaching and service. The event was a huge success, and we even had a couple of alumni attend. We plan to build on this significantly and really engage our alumni, but wanted this first year to be more low key to set the stage and to show our commitment to our alumni for such events. In addition, we awarded Dr. Joann Mossa with a Lifetime Achievement Award for her continued (17+ years) of service to undergraduate education. We plan to more fully engage the Alumni in the future (see next item)
4. I developed an Alumni Committee and an Alumni Coordinator Position in our program. This group will actively engage our alumni and plan to develop internship opportunities for our students, fundraising and money for awards for the department, speaker series to come through campus based on our alumni (we had 3 this academic year all which were excellent) and increase our presence overall in the broader community. This group will start ramping up this summer and fall, and given the lack of communication our program has had with alumni over the last 4-5 years we think this will be a slow but essential rebuilding process. Drs. Glass, Waylen and Mossa will lead this, and the new Lecturer Anwar Sounny-Slitine , as well as myself, will also be engaged.
5. Shared Services - we are working with shared services to streamline many items, develop paperwork to assist our faculty in the process of using shared services and to make the procedures as clear and streamlined as possible. The process is still a huge time sink - every item must be submitted to shared services, with ALL necessary information, and then checked after to

be sure it was done properly –so still a significant workload despite the removal of our office manager. Now this work all falls on me and Desiree Price. As such Desiree’s position needs significant reworking and her title/position changed to reflect this. Currently the items we must both manage are payroll, FARs, AARs, Effort, Appointments, Graduate student appointments, Purchasing, summer appointments, etc. This is in addition to the course scheduling, graduate program, and other basics already been undertaken. We are developing paperwork and handouts with the assistance of shared services to decrease this workload (on both groups) as much as possible.

6. New Graduate Student Lab – As part of being incoming chair I requested \$10,000 to replace the aging computers in our graduate student lab (TUR3014). This was completed in Fall 2016 with the advice and assistance of CLAS IT. The room was also painted and redesigned, with the assistance of the graduate students. Finally a conference table and 18 conference chairs were obtained (for free from the listserv announcing departments getting rid of items) to complete this room. As such the graduate students now have a much more functional work environment.
7. Social Media and Webpage – The updating of the webpage as well as its redesign are ongoing and we are making a real push with our Social Media presence. The cost of a social media person is a significant portion of our IDC budget but we feel this is a real investment – especially for Geography as so many people are unaware of what Geography is. For example, at recent AAG Tweets and posts for Facebook on every UF presenter were created – these posts on Facebook averaged between 300-500 likes or shares and so are really building a presence now. This process of webpage updates and social media presence will only increase in the coming years and we plan to tie our social media items into our technology in the main office also, so we keep all items on display very current and minimize workload across platforms.

#### **Associate Chair (January 2015-current)**

Was tasked with a series of tasks, most prominent of which were:

1. Develop the UFO Program for Geography – getting it into the catalogue and sheparding through our courses and course development
  - a. PROGRESS: We started our UFO Program as of Fall 2015. By December already had 10 UFO Geography Majors. Developed 2 courses for UFO and taught GEO2242 UFO in Spring. Helped keep development on track – though work still needed.
2. Work with the MGGH Committee (of which I am also a member) to develop and submit the paperwork for the new MGGH BA and BS Degrees
  - a. PROGRESS: The April 2015 UCC Meeting finally approved the MGGH degree programs. We worked with the catalogue and should be in the catalogue to start Fall 2016
3. Social Media: Develop an online presence for the Department in terms of Social Media
  - a. PROGRESS: Geography now has a Facebook page and Twitter Handle. These are beginning to get much more visible (Lili Morris recent successful defense announcement received 440+ shares) and faculty and students are now starting to send information to Mike S. (Social Media technician and developer). In addition, after recent AAG ‘Chairs & Social Media’ seminar, we are also added Linked IN – to connect Undergrads and Alumni directly to enhance out networking and also job placement.
4. Bring new Certificate Programs online

- a. PROGRESS: Dr. Mao led the Geographic Techniques Certificate, which was approved and should be in the Fall Catalogue. MGGH plans to develop a certificate program now their courses are getting course numbers and they have a full degree program. Still need to develop a 'Human Dimensions' or 'Social-Ecological Systems' Certificate.
5. Department Name Change
- a. PROGRESS: Review of course sin our catalogue determined that we lacked the phrase 'spatial sciences' in most of our courses, so are revising many courses and course names/descriptions right now – spearheaded by Dr. Mossa. Once this is complete – and Dr Binford returns from research leave – will move forward with this name change from 'Geography' to 'Geography and Spatial Sciences'.

**Graduate Coordinator: 2005-2012**

I have served as the Geography Department Graduate Coordinator, during which time I have effected a complete overhaul of our graduate program, instituted annual reports and reviews of both students and advisors, and created a new graduate handbook. I have developed and teach two new, one-credit hour courses, specifically related to graduate student professional development (a greatly overlooked facet of graduate education), "*Publish or Perish*", which addresses the logistics of the publication process; and "*How to Survive (and Thrive) in Academia*", which examines how to get the best job one can, how to market oneself for job opportunities, and also a discussion of what one should be doing while in graduate school to improve one's chances of attaining a desired employment position. In a related theme, I also started and continue to direct the WIGs ("Women in Geography") group at UF, which meets to discuss the issues relating specifically to women in academia.

I undertook annual reports on all (70+) of our graduate students, as well as maintain, update and revise the entire geography department graduate application website, hosted a number of graduate student functions: WIG events, AAG dry runs, graduate student orientation and welcome, directed the admissions committee and undertaken admission/rejection procedures for hundreds of applicants (50-75 per year) as well as more general undertakings of graduate student meetings, dealing with problems related to student progression and progress to graduation.

Other Departmental service

2015-2016	Designed and funded new Flipped Classroom in Geography department.
2015	Led committee for development of new UF Online BA in Geography and minor in Geography – BA approved and due to start Fall 2015.
2014-2015	Worked with committee to develop new Medical Geography in Global Health BA and BS Programs in Geography. Paperwork submitted to college May 2015
2015	Developed a certificate in Geographic Technologies with Dr. Liang Mao. Submitted to college May 2015
2013-2015	Graduate Admissions Committee – Member
2013-2014	Chair - Search Committee Medical Geography (assistant Associate level) Geography and EPI joint position Hired: Dr. Sadie Ryan

2013-2014 Member – Latin American Development Search committee for Geography Department (below Steering Committee for Preeminence hire which is multi-departmental committee, each Department also hosts its own ‘Search Committee’).

2013-2014 Chair – Spatial and Mathematical Modeling of Disease Search committee for Geography Department (below Steering Committee for Preeminence hire which is multi-departmental committee, each Department also hosts its own ‘Search Committee’).

2013 Chair – Merit Review Committee

2012 Chair – 3<sup>rd</sup> Year Review for Dr.. Jason Blackburn

2012 Chair – 3<sup>rd</sup> Year Review, Dr. Youliang Mao

2004-2012 Member Geography Department Graduate Admissions Committee

2004-2012 Ryan Poehling Fellowship Committee

2008-2012 We are currently working on developing a climate curriculum within the department and I am part of this endeavor.

2005 – 2012 Department of Geography, Graduate Coordinator

2005 – 2012 Faculty Mentor to New Faculty member Dr. Cori Matyas

2005 –2009 Faculty Teaching Mentor to 3 GEO 2200 Lab TA’s

2004 - 2011 Member Geography Department Graduate Admissions Committee

2005 Search committee member for Economic Geographer

2005 - 2006 Edward Fik Memorial Fellowship Awards Committee (Graduate)

2005 Dunkle Fellowship Awards Committee (Undergraduate)

2005 Committee to redesign TUR 3012

2005 - 2006 Committee to create ‘Peer Teaching Evaluation Reports’ with Dr. Tim Fik

2004 Search Committee Member for Climatologist

2004 Faculty Search Committee Member for Senior Level Economic Geographer

2004 Search Committee Member (GIS/Computer Technician)

2003-2005 Chair, Geography Colloquium Series

2003 Search Committee Member for LUECI Computer Systems/GIS/Field person

2003	Search Committee Member (GIS/Computer Technician)
2002	Member of Ryan Poehling Fellowship Annual Awards Committee
2002	Member of Annual activities Committee

## PROFESSIONAL MEMBERSHIPS

Association of American Geographers (AAG)  
 International Association of Landscape Ecology (IALE)  
 Florida Society of Geographers (FSG)  
 South Eastern Division of American Geographers (SEDAAG)  
 American Society for Photogrammetry and Remote Sensing (ASPRS)

## GRADUATE STUDENTS

Graduate Faculty Status received Spring 2003. I currently serve as chair for 8 graduate students, and 1 Masters student. I have graduated an additional 22 graduate students: 6 Masters and 16 PhD. Since Spring 2003 I have served on or advised over 50 students at UF.

### Current Doctoral Students Advised:

Carly Muir

- Precipitation, soil moisture, agriculture in African agricultural landscapes

Ryan Good

- Fisheries and land cover change in communities in Tanzania

Audrey Smith

- Human health, vegetation change and climate in Zambia and Ethiopia

Mehmet Ozdes

- Land cover change in African National Parks, remote sensing and modeling analyses.

Xavier Haro-Carrion

- Land cover change, ecosystem services and biodiversity studies in coastal Ecuador

Meshari Alenzi

- Protected areas and conservation of vegetation in Kuwait

Hannah Herrero

- Time series analysis of savanna vegetation change

Mehedy Hassan

- Land cover change in Bangladesh, urbanization and remote sensing techniques

### Current Masters Students Advised:

Audrey Smith

- Human health and vegetation persistence in Zambia. Defending November 2017 and already in PhD program

Tyler Schaper

- Changes in agricultural land use in Florida

## Graduated Doctoral Students

1. Forrest Stevens  
December 2015. Current: Assistant Professor University of Louisville
2. Erin Bunting  
Summer 2014. Current: Assistant Professor and Director of Remote Sensing Institute, Michigan State University
3. Tim Fullman  
Summer 2014. Co-Chair. Current: Researcher with Nature Conservancy, Alaska
4. Jessica Steele  
Summer 2014. Current: Postdoctoral researcher - University of Liverpool, England.
5. Likai Zhu  
Summer 2014. Current: Postdoctoral researcher - University of Madison, Wisconsin
6. Jing Sun  
Summer 2013. Postdoctoral researcher - University of Michigan
7. Muhammad Almatar  
Fall 2012. Current - Associate Professor & Chair, University of Kuwait
8. HuiPing Tsai  
Fall 2012. Current: Researcher, University of Taiwan
9. Cerian Gibbes  
Spring 2011. Current: Assistant Professor, University of Colorado, Colorado Springs
10. Sanchayeeta Adhikari  
Spring 2011. Current: Assistant Professor, University of California, Northridge
11. Pinki Mondal  
Fall 2010. Current: Researcher, Columbia University
12. Claudia Stickler  
December 2009. Current: Director, Private Research Foundation
13. Jaclyn Hall  
Summer 2009. Current: Assistant Professor, University of Florida, Health Program
14. Amy Daniels  
Summer 2009. Current: US Global Change Program
15. Matt Marsik  
Fall 2008 (Co-Chair) with Peter Waylen as Chair. Current: Data Manager, UF Health

16. Joel Hartter

Fall 2007 (Co-Chair) with Abe Goldman as Chair. Current: Associate Professor & Director of Environmental Studies Program, University of Colorado.

**GRADUATED: Masters Students**

1. Hannah Herrero  
Spring 2015. Continued on to PhD with me
2. Mariano Gonzalez  
Fall 2009. Continued on to PhD at Duke University
3. Forrest Stevens  
Spring 2009. Continued on to PhD with me
4. Muhammad Almatar  
Spring 2008. Continued on to PhD with me
5. Cerian Gibbes  
Fall 2006. Continued on to PhD with me
6. Rob Lopez  
Spring 2006. Became an Environmental Consultant after his Masters.

**POST-DOCS AND VISITING FELLOWS**

**Reza Khatami:** Postdoctoral scholar, working on time series analysis, land cover change and land transactions in Ethiopia and Florida agricultural analysis.

**Guo Cuo:** Visiting Scholar, China. Worked on remote sensing techniques and machine learning, 2016-2017

**Erin Bunting:** Post-doc on the SEED Grant from the Informatics Institute on Health Climate and Land. 2014-2015.

**Lin Cassidy:** Research scholar at the Okavango Research Institute, University of Botswana and independent consultant. Post-doc (25% time) on NASA Project 2009-2013

**Xia Cui:** Visiting Scholar to my lab, from Lanzhou University, China. Major: Cartography and Geographic Information System. Graduation Date: Summer, 2011.

**Xanic Rondon:** Visiting Scholar, Department of Geography, University of Florida, Gainesville, FL (Feb-Oct 2010), and Postdoctoral Fellow, Percy Fitz Patrick Institute, University of Cape Town, South Africa. Advisors: G. Cumming, S. Perz, and J. Southworth. Project: NSF grant: Infrastructure change, human agency, and resilience in social-ecological systems.

**PhD Committee Member**



- Roberat Mendonca de Carvalho, Geography
- Michael Dobbins, Geography
- Mohammad Abdulrahman, Geography
- Maira Irigaray, Geography
- Fergus Keatinge, Geography
- Caroline Parks, Geography
- Tyler Rundel, Geography
- Gerado Hermes, Ag Bio
- Eduardo Gelcer, Ag Bio
- Joshua Newmann, Music
- Julie Shapiro, SNRE
- Zou Yuyang, Construction
- Natalie Boodram - Forestry
- Andrea Chavez - Geography
- Lin Cassidy - Geography
- Hector Castaneda - SNRE
- Brian Daley - Forestry
- Amy Duchelle - WFT IGERT - Forestry
- Lucas Fortini - Forestry
- Lisa Gardner - Wetlands and Soils
- Andrea (Brown) Gaughan - Geography
- David Hanson - Geography
- Natalia Hoyos- Geography
- Jawoo Koo - Agricultural and Biological Engineering
- Richard MacKenzie - Geology
- Maitreyi Mandel - Economics
- Claudia Monzon - Geography
- Kojo Owusu - Geography
- Risa Patarsuk - Geography
- Tapan Pathak - Agricultural and Biological Engineering
- Jeremy Radachowsky - Interdisciplinary Ecology
- Rafael Rojos - SNRE
- Francesco Tonini - FRC
- Joanna Tucker - WFT IGERT - Forestry
- Jamie Waggoner - Anthropology
- Neill Wallis - Anthropology
- McNair Welch - Agricultural and Biological Engineering
- Miriam Wyman - WFT IGERT - FRC

#### **Masters Committee Member**

- Kim Sanghoon, Geography
- Carly Muir, Geography
- WeiYou Kong, Geography
- Matthew Bokach - Interdisciplinary Ecology
- Ellen Bozarth - Geography
- Andrea Brown - Geography
- Kristy Capobianco - Geography
- Amy Daniels - Interdisciplinary Ecology

- Lucas Fortini - Forestry
- Ann George - Wildlife, Ecology and Conservation
- Kelly Gleason - SNRE
- Kenneth Hawkins - Geography
- Louise Loudermilk - Wildlife, Ecology and Conservation
- Brian Spiesman - Wildlife, Ecology and Conservation
- Zulma Villegas - Interdisciplinary Ecology
- Neill Wallis - Anthropology
- Erin Bunting - Geography
- Sam Schramski - Geography
- Gloria Falcon - Agricultural and Biological Engineering
- Cynnamon Dobbs - Forestry