# **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 time series analyses, machine learning and AI RS approaches, 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.

#### LEADERSHIP

Administrative Leadership. Department Chair and Professor of Geography at the University of Florida (UF), overseeing the academic and operational functions of the department for over eight years. As Chair, I manage a wide range of responsibilities, including financial oversight, teaching assignments, strategic planning, faculty development, and external relations, while fostering a collaborative, innovative culture within the department. Under my leadership, the department has expanded its research footprint, revamped its curriculum, doubled its faculty, and implemented major renovations to both physical spaces and digital outreach.

Career Trajectory. My academic journey began with a focus on human-environment interactions within the field of Land Change Science, where I integrated remote sensing, AI methodologies, and interdisciplinary approaches to tackle critical global issues. As my career progressed, I have taken on increasingly complex roles, culminating in my position as Chair of UF's Geography Department and leadership in university-wide initiatives related to AI and interdisciplinary research. This trajectory has been complemented by a commitment to service, editorial work, and national leadership in geography education.

### NOTABLE LEADERSHIP HIGHLIGHTS

**UF AI BlueSky Visioning Taskforce Co-Leadership.** As Co-Chair of the AI BlueSky Visioning Taskforce (November 2024–May 2025), I partnered with Dr. Kati Migliaccio to lead a university-wide initiative charged with defining the future of AI at the University of Florida. Appointed by Provost Joe Glover, our taskforce was tasked with envisioning how UF will evolve over the next five years to meet

the rapidly advancing needs of AI-driven education and research, while maintaining UF's position as a leader in AI integration across the curriculum and leveraging cutting-edge resources like the HiPerGator supercomputer. To achieve these goals, we implemented a **comprehensive**, **inclusive engagement process**. This included organizing **10+ live workshops** across campus, as well as specialized sessions with local high school students and 4-H groups to gather diverse perspectives. Recognizing the importance of accessibility, we also developed and launched an **asynchronous online version of the workshop via Canvas**, enabling faculty, staff, and students unable to attend in person to contribute their ideas. These workshops encouraged bold, forward-thinking contributions that informed our strategic recommendations. Through this initiative, we synthesized input from UF's community into actionable recommendations that will guide the university's AI strategy. Our work supports UF's commitment to shaping a cutting-edge, **AI-driven ecosystem** that anticipates the needs of students, faculty, and external partners in a rapidly evolving landscape. The taskforce's recommendations will serve as a dynamic framework, revisited annually to ensure UF remains at the forefront of AI innovation and impact.

University Initiative Building. As Co-Chair of the Quality Enhancement Program (QEP) 'AI Across the Curriculum' initiative at UF from 2021 to 2024, I worked alongside Dr. Kati Migliaccio to develop a comprehensive, five-year plan to integrate AI literacy into UF's undergraduate curriculum. Our charge was to align AI education with UF's strategic goals, particularly the "Your Pathway to AI" initiative, which positions AI at the heart of the university's academic vision. This included leading a 48-member task force through data collection, strategic planning, and the presentation of our final recommendations, which were successfully approved by the Southern Association of Colleges and Schools Commission on Colleges (SACSCOC) in February 2024. This initiative has become a model for other universities aiming to embed AI across disciplines. In addition, I serve on the UF AI Curriculum and Research Committees, where I represent the College of Liberal Arts and Sciences (CLAS) and contribute to university-wide efforts to expand AI education and research.

AAG Task Force Leadership. I was recently invited to join the American Association of Geographers (AAG) special task force on nurturing undergraduate geography education, known as the Gen A Project (2024-2026). The task force, composed of national leaders in geography education, is charged with exploring strategies to reverse the decline in geography undergraduate enrollment and strengthen the discipline's presence in the US academy. My appointment to this task force reflects both my leadership role as Chair at an R1 institution and my expertise in growing UF's geography undergraduate program. Our goal is to produce actionable recommendations that will inform the AAG's long-range plans, ensuring a vibrant future for geography education nationwide.

National and International AI Advocacy. My leadership in AI extends beyond UF, with national visibility through multiple speaking engagements and collaborations. In December 2024 and January 2025, I spoke to the University of North Carolina and University of Delaware respectively, on building the AI across the Curriculum Program. In May 2024, I was invited to speak at the Harvard Center for Geographic Analysis on the topic of Evaluating the Science of Geospatial AI. These invitations reflect my recognized expertise in building AI campus wide academic initiatives as well as integrating AI applications in geography. In 2023, I was copresenter on testimony to the US House Future Forum Caucus on AI education, highlighting the importance of AI integration across academic disciplines. I was also co-presenter on AI and curriculum development at conferences such as the AI in Agriculture conference, in Orlando, Florida, in partnership with other national institutions. These roles place me at the forefront of the conversation on how AI can transform education and research across fields.

**Professional Service and Editorial Leadership.** I currently serve as the Specialty Chief Editor for the *Remote Sensing Time Series Analysis* section of *Frontiers in Remote Sensing*, where I lead the development of this emerging field with a focus on the integration of AI techniques. I am the only female Chief Editor in this journal's leadership team. Additionally, I am on the editorial boards of several key journals, including *Global Environmental Change* and *Geographical Analysis*. I have also led initiatives within the AAG to increase the visibility and representation of women in remote sensing and GeoAI, and am currently in the process of petitioning for the establishment of a new AAG specialty group on these topics.

**Building a Departmental Legacy.** As Chair of UF's Geography Department, I have spearheaded numerous initiatives aimed at enhancing both academic and student life. I led the effort to secure a \$1 million gift for the creation of the Poehling Professorship in Geography, developed new undergraduate certificate programs in 'GeoAI' and a new 'Graduate Certificate in Digital Geography and GIS,' and completed several major renovations to departmental spaces. I also initiated UF's first Geography Alumni Event and have grown our annual Giving Day into a significant fundraising effort, increasing participation and donations each year. Furthermore, I have actively expanded the department's course offerings and social media presence, helping to boost student engagement and enrollment. I have established a new Departmental External Advisory Board to help take our Department to the next level and better prepare our graduates for the real-world.

**Investment in Future Leaders.** My role as Chair also emphasizes mentorship, particularly for junior faculty and graduate students. I run monthly junior faculty meetings, hold annual one-on-one check-ins, and run department retreats for faculty. Additionally, I serve as a mentor for the Women in Geography (WIGs) group at UF, supporting female graduate students and junior faculty in navigating the challenges of academia. This commitment to leadership development is also reflected in my active participation in leadership institutes, including my graduation from the HERS Leadership Institute (Class of 2023).

EDUCATION				
PhD MS BSc	2000 1996 1992	Indiana University Indiana University Leicester University, UK	Environmental Science Geography Geography	
ACADEMIC APPOINTMENTS				
Nov 2024-May 2025		Task Force Co-Chair of the AI BlueSky Visioning Process Dr. Kati Migliaccio		
Sept 2021-2024		Task Force Co-Chair: Quality Enhancement Program for UF 'AI Across the Curriculum' with Dr. Kati Migliaccio from ABE		
August 2016-current		Professor, Chair, Dept. of Geography, University of Florida		
2011-August 2016		Professor, Dept. of Geography and Research Institute (LUECI), Unive	the Land Use and Environmental Change ersity of Florida	

Chair: Steering Committee of the Florida Climate Institute. A joint UF/FSU institute developed with both Universities Funding.
Associate Professor, Department of Geography and the Land Use and Environmental Change Research Institute (LUECI), University of Florida
Assistant Professor in the Department of Geography and the Land Use and Environmental Change Research Institute (LUECI), UF
Post-doctoral Research Associate in Climate Change Analysis and Remote Sensing of Land Cover Change, NIGEC & CIPEC, Indiana University
2025 AAG Fellow: The AAG Fellows is a recognition and service program that recognizes geographers who have made significant contributions to advancing geography. It is a lifetime appointment.
Graduate Student Council Award for <i>Outstanding Service by a Faculty Member on behalf of Graduate Students</i> for the 2016-2017 Academic Year.
University of Florida Climate Institute Faculty Fellow for 2014-2017.
Nominated by CLAS as the Teacher/Scholar of the Year for 2014-2015
Nominated for CLAS Dissertation Adviser and Mentoring Award for 2012-2013. Selected by college to go forward to University wide competition.
Nominated for CLAS Dissertation Adviser and Mentoring Award for 2010-2011.
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> )
Awarded a University of Florida Research Foundation Professorship
Nominated for CLAS Advising Award, November 2010
Nominated for CLAS Advising Award, November 2009
Nominated for CLAS Advising Award, November 2008
Nominated for Teaching Award and for Advising Award

Nominated for Professorship

2006

2005-2006	Nomination for Teacher/Scholar of the Year 2005-2006

2004 Received a CLAS Faculty Teaching Award for 2004-05

GRANTS	
2016-2022	NSF CNH Program: Recent land transactions in Ethiopia: Impacts on agriculture, ecosystem services, and food-energy security. Notified of funding April 2016. \$1.6 million. UF portion with Southworth as PI = \$360,000 Total Award Period Covered: 9/1/2016 – 8/31/2022. PI: Dan Brown (University of Washington). Co-PIs: Jane Southworth (UF PI) and Arun Agrawal (University of Michigan).
2016-2018	NIOSH: South Eastern Coastal Center for Agricultural Health and Safety \$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 <i>Google Earth Engine, Google Maps Engine, Open Data Kit, Timelapse,</i> and <i>Google Tours</i> 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

	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 Mundoz-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) - \$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 socioeconomic 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.

technique. Note: There is no direct money from this. The collaboration enabled

2005-2006	PI Southworth, Jaclyn 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 & Regional Science. "Consequences of Parks for Land Use, Livelihood Diversification, and Biodiversity in East Africa." PI: Goldman, Co-PIs: Binford & 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

Under Contract	'Remote Sensing, Big Data, and GeoAI' with Elsevier. Editors: Erin Bunting, Jane Southworth, Hannah Herrero and Cerian Gibbes.
2020	Herrero, Hannah Victoria and Southworth, Jane. Special Issue on Dynamics of the Global Savanna and Grasslands Biomes. Compiled into book:
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**

2025	[113] Mashoukur Rahaman, Jane Southworth, Amobichukwu Chukwudi Amanambu, Bewuket B. Tefera, Ali Alruzuq, Mohammad Safaei, Md. Muyeed Hasan, Audrey Culver Smith. Combining Deep Learning and Machine Learning Techniques to Track Air Pollution in Relation with Vegetation Cover through Remote Sensing Data. <i>Journal of Environmental Management</i>
2024	[112] Southworth, J., Smith, A., Safaei, M., Rahaman, M., Alruzuq, A., Tefera, B.B., Muir, C.S., and Herrero, H.H. Machine Learning versus Deep Learning in Land System Science: A Decision-Making Framework for Effective Land Classification. <i>Frontiers in Remote Sensing</i> , 5, 1374862.
2024	[111] Southworth J, Bunting E, Herrero HV and Crews K. Editorial: Women in remote sensing: 2022. <i>Front. Remote Sens.</i> 5:1369697. doi: 10.3389/frsen.2024.1369697
2024	[110] Dewald, Julius; Southworth, Jane; Moise, Imelda. The Role of People, Parks, and Precipitation on the Frequency and Timing of Fires in a Sub-Saharan Savanna Ecosystem. <i>International Journal of Wildland Fire</i> , 33, WF23020. <a href="https://doi.org/10.1071/WF23020">https://doi.org/10.1071/WF23020</a>
2024	[109] Dewald, J.R.; Southworth, J.; Szapocznik, J.; Lombard, J.L.; Brown, S.C. Greening the Urban Landscape: Assessing the Impact of Tree-Planting Initiatives and Climate Influences on Miami-Dade County's Greenness. <i>Remote Sens.</i> <b>2024</b> , <i>16</i> , 157. <a href="https://doi.org/10.3390/rs16010157">https://doi.org/10.3390/rs16010157</a>
2023	[108] Jane Southworth & Kati Migliaccio. Developing Career-Ready Graduates: The Importance of AI Literacy Across the Curriculum. <i>Media &amp; Learning Newsletter</i> , <a href="https://media-and-learning.eu/type/featured-articles/developing-career-ready-graduates-the-importance-of-ai-literacy-across-the-curriculum/">https://media-and-learning.eu/type/featured-articles/developing-career-ready-graduates-the-importance-of-ai-literacy-across-the-curriculum/</a>
2023	[107] Yang, Di, Chiung-Shiuan Fu, Hannah Victoria Herrero, Jane Southworth, and Michael Binford. "Linking forest management to surrounding lands: a citizen-based approach towards the regional understanding of land-use transitions." <i>Frontiers in Remote Sensing</i> 4: 1197523.
2023	[106] ÖZDEŞ, Mehmet, and Jane Southworth. Land Change Science: Understanding the complexity of monitoring protected areas in savanna ecosystems of Sub-Saharan Africa. <i>Türk Coğrafya Dergisi</i> (82), 63-76. <a href="https://doi.org/10.17211/tcd.1211634">https://doi.org/10.17211/tcd.1211634</a>
2023	[105] Southworth J, Ryan SJ, Herrero HV, Khatami R, Bunting EL, Hassan M, Muir CS and Waylen P (2023), Latitudes and land use: Global biome shifts in vegetation persistence across three decades. <i>Front. Remote Sens.</i> 4:1063188. doi: 10.3389/frsen.2023.1063188
2023	[104] Hannah V. Herrero, Jane Southworth, Reza Khatami, Stephanie Insalaco, and Carly Muir. Examining the relationship between vegetation decline and

	precipitation in the national parks of the Greater Limpopo Transfrontier Conservation Area during the 21st century. <i>Frontiers in Environmental Science</i> , 11, 335. <a href="https://doi.org/10.3389/fenvs.2023.1106849">https://doi.org/10.3389/fenvs.2023.1106849</a>
2023	[103] Southworth, J., Migliaccio, K., Glover, J., Glover, J., Reed, D., McCarty, C., Brendemuhl, J., & Thomas, A. Developing a model for AI Across the Curriculum: Transforming the Higher Education Landscape via Innovation in AI Literacy. <i>Computers &amp; Education: Artificial Intelligence, 4:</i> 100127. <a href="https://doi.org/10.1016/j.caeai.2023.100127">https://doi.org/10.1016/j.caeai.2023.100127</a>
2022	[102] Mohammad Mehedy Hassan, Matthew Duveneck, and Jane Southworth. The role of the refugee crises in driving forest cover change and fragmentation in Teknaf, Bangladesh. <i>Ecological Informatics</i> , 74, 101966 <a href="https://doi.org/10.1016/j.ecoinf.2022.101966">https://doi.org/10.1016/j.ecoinf.2022.101966</a>
2022	[101] Julius R. Dewald1, Jane Southworth, Scott C. Brown, Jose Szapocznik. Comparison of NDVI Values from Multiple Satellite Sensors to Monitor for Public Health in an Urban Sub-tropical Setting. <i>American Journal of Geographic Information System</i> , 11(2): 33-40. DOI: 10.5923/j.ajgis.20221102.01
2022	[100] Mohammad Mehedy Hassan, Ikramul Hassan, Jane Southworth, Tatiana Loboda Mapping fire-impacted refugee camps using the integration of field data and remote sensing approaches. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 115: 103120. <a href="https://doi.org/10.1016/j.jag.2022.103120">https://doi.org/10.1016/j.jag.2022.103120</a>
2022	[99] Southworth, J., V. Seufert, K. Seto, and D.K. Munroe, 2022. Editorial Introduction: Women in Land Science. <i>Journal of Land Use Science</i> , 17 (1): 1-11.
2022	[98] Tyler Schaper, Reza Khatami, Mohammad Mehedy Hassan, Gregory Glass, Jane Southworth. Monitoring Major Crop Coverage Change Trends in Agricultural in Florida. <i>American Journal of Geographic Information System</i> . 11(1): 23-31. doi:10.5923/j.ajgis.20221101.03
2021	[97] Southworth, Jane and Muir, Carly, 2021. Specialty Grand Challenge: Remote Sensing Time Series Analysis. Frontiers in Remote Sensing, 2, 10.3389/frsen.2021.770431
2021	[96] Xavier Haro-Carrión, Peter Waylen & Jane Southworth. Spatiotemporal changes in vegetation greenness across continental Ecuador: a Pacific-Andean-Amazonian gradient, 1982–2010, Journal of Land Use Science, 16 (1): 18-33. DOI: 10.1080/1747423X.2020.1866705
2021	[95] Muir, C., Southworth, J., Khatami, R., Herrero, H., and Akyapi, B., 2021. Vegetation Dynamics and Climatological Drivers in Ethiopia at the Turn of the Century. <i>Remote Sensing</i> , 13 (16): 3267, <a href="https://doi.org/10.3390/rs13163267">https://doi.org/10.3390/rs13163267</a>

2020	[94] Herrero, Hannah Victoria and Southworth, Jane. Special Issue on Dynamics of the Global Savanna and Grasslands Biomes. (2020). <i>Applied Sciences</i> . 10 (22), 8043. Editorial. <a href="https://doi.org/10.3390/app10228043">https://doi.org/10.3390/app10228043</a>
2020	[93] Herrero, H. V., Southworth, J., Muir, C., Khatami, R., Bunting, E., and Child, B. (2020). An evaluation of vegetation persistence in and around southern African national parks during the 21st century. <i>Applied Sciences</i> , 10(7), 2366. Special Issue: Dynamics of the Global Savanna and Grasslands Biomes. <a href="https://doi.org/10.3390/app10072366">https://doi.org/10.3390/app10072366</a>
2020	[92] Khatami, R., Southworth, J., Muir, C., Caughlin, T., Ayana, A., Brown, D.G., Liao, C., & Agrawal, A. (2020). Operational large-area land cover mapping: an Ethiopia case study. <i>Remote Sensing</i> , 12, 954.
2020	[91] Hassan, M. M., Ash, K., Abedin, J., Paul, B. K., & Southworth, J. A Quantitative Framework for Analyzing Spatial Dynamics of Flood Events: A Case Study of Super Cyclone Amphan. <i>Remote Sensing</i> , 12(20), 3454; <a href="https://doi.org/10.3390/rs12203454">https://doi.org/10.3390/rs12203454</a>
2020	[90] Khatami, R., Southworth, J., Muir, C., Caughlin, T., Ayana, A., Brown, D.G., Liao, C., Agrawal, A. Operational large-area land-cover mapping: Ethiopia case study. <i>Remote Sensing</i> , 12(6), 954; https://doi.org/10.3390/rs12060954
2020	[89] Herrero, H., P. Waylen, J. Southworth, R. Khatami, D. Yang, and B. Child. A healthy park needs healthy vegetation: The story of Gorongosa National Park in the 21 <sup>st</sup> century. <i>Remote Sensing</i> , 12(3), 476; <a href="https://doi.org/10.3390/rs12030476">https://doi.org/10.3390/rs12030476</a>
2019	[88] Klarenberg, G., R. Munoz-Carpena, S. Perz, C. Baraloto, M. Marsik, J. Southworth, and L. Zhu. A spatiotemporal natural-human database to evaluate road development impacts in an Amazon trinational frontier, Nature <i>Scientific Data 6(1): 93</i> DOI: 10.1038/s41597-019-0093-7
2019	[87] Hassan, M., L. Juhasz, and J. Southworth. Mapping time-space brickfield development dynamics in peri-urban areas of Dhaka, Bangladesh. <i>ISPRS International Journal of GeoInformation</i> , 8(10), 447; <a href="https://doi.org/10.3390/ijgi8100447">https://doi.org/10.3390/ijgi8100447</a>
2019	[86] Herrero, H., J. Southworth, E. Bunting, R. Kohlhaas, and B. Child. Integrating surface-based temperature and vegetation abundance estimates into land cover classifications for conservation efforts in savanna landscapes. <i>Sensors</i> , 19(16), 3456; https://doi.org/10.3390/s19163456
2018	[85] Xavier Haro-Carrión and Jane Southworth. Understanding Land-Cover Change in a Highly Complex Landscape in a Biodiversity Hotspot of Coastal Ecuador. <i>Remote Sensing 10</i> , 1980; doi:10.3390/rs10121980

2018	[84] Eduardo Gelcer, Clyde W Fraisse, Lincoln Zotarelli, Forrest R Stevens, Daniel Perondi, Daniel D Barreto, Hipólito A Malia, Carvalho C Ecole, Verona Montone, and Jane Southworth, 2018. <u>Influence of El Niño-Southern oscillation (ENSO) on agroclimatic zoning for tomato in Mozambique</u> . <i>Agricultural and forest meteorology</i> , 248, 316-328.
2018	[83] Southworth J., Bunting, E., Zhu, L., Ryan, S., Herrero, H.V., Waylen, P., Munoz-Carpena, R., Campo-Bescos, M, and Kaplan, D. Using a Coupled Dynamic Factor-Random Forest Analysis (DFRFA) to Reveal Drivers of Spatiotemporal Heterogeneity in the Semi-Arid Regions of Southern Africa. <i>PLoS One</i> , <i>13(12)</i> doi: 10.1371/journal.pone.0208400
2018	[82] Bunting, E.L., Southworth, J., Herrero, H., Ryan, S.J., and Waylen, P., Understanding Long Term Savanna Vegetation Persistence across Three Drainage Basins in Southern Africa, <i>Remote Sensing</i> , 2018, doi:10.3390/rs10071013
2018	[81] Mohammad Mehedy Hassan, Audrey Culver Smith, Katherine Walker, Munshi Khaledur Rahman and Jane Southworth. Rohingya Refugee Crisis and Forest Cover Change in Teknaf, Bangladesh. <i>Remote Sensing</i> , 10(5): 689.
2018	[80] Mohammad Mehedy Hassan and Jane Southworth. Analyzing Land Cover Change and Urban Growth Trajectories of the Mega-Urban Region of Dhaka Using Remotely Sensed Data & an Ensemble Classifier. <i>Sustainability</i> , 10(1): 10.
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. <i>International Journal of Remote Sensing</i> , 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. <i>Ecological Modeling</i> , 352: 1-18.
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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**

2022	Guest Editors: Jane Southworth, Kelley Crewes, Hannah Herrero and Erin Bunting. Special Issue on Women in Remote Sensing in <i>Frontiers of Remote Sensing</i> .
2022	Guest Editors: Ariane de Bremond, Daniel G. Brown, Arun Agrawal, Jane Southworth. Special Issue on 'Land Acquisitions, Well-being, and Environment in <i>Ecology and Society</i> .
2022	Guest Editors: Jane Southworth, Verena Seufert, Karen Seto & Darla K. Munroe (2022). Special Issue on 'Women in land science', <i>Journal of Land Use Science</i>
2020	Gues Editors: Hannah V. Herrero and Jane Southworth. Special Issue on 'Dynamics of the Global Savanna and Grasslands Biomes', <i>Applied Sciences</i>
2015	Guest editor with Prof. Michael Hill, on "Savanna system dynamics and human landscapes." Journal <i>Land Use Science</i>
2013	Guest editor, Special Issue of <i>LAND</i> , "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 <i>Applied Geography</i> , "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 <i>Agriculture</i> , <i>Ecosystems and Environment</i> "From Pattern to Process: Landscape Fragmentation and the Analysis of Land Use/Land Cover Change"

### **PRESENTATIONS**

### **INTERNATIONAL MEETINGS**

- 2024 GLP's 5th Open Science Meeting: Pathways to Sustainable and Just Land Systems,
  November 4-8<sup>th</sup> 2024, Oaxaca, Mexico. Organized 3 consecutive sessions on Redefining
  Landscapes: The Impact of GeoAI and Big Data in Earth Observation. Organizer(s): Erin
  Bunting, Jane Southworth, Cerian Gibbes, Hannah Herrero.
  - Jane Southworth, Audrey Smith, Mohammad Safaei, Mashoukur Rahaman, Ali Alruzuq, Bewuket Tefera, Carly Muir and Hannah Herrero. Machine Learning versus Deep Learning in Land System Science: A Framework for effective land classification, November 5<sup>th</sup>, 2024.
  - Xavier Haro-Carrion, Jane Southworth, and Peter Waylen. Land surface phenology dynamics over three decades: Insights from continental Ecuador, 1982-2010. November 5<sup>th</sup>, 2024.

- Hannah Herrero, Mehedy Hassan, Torit Chakraborty and Jane Southworth. Investigating Land Cover Changes in the Cape Winelands: Impacts on the South Africa Wine Sector. November 5<sup>th</sup>, 2024.
- 2024 **GLP's 5th Open Science Meeting: Pathways to Sustainable and Just Land Systems,** November 4-8<sup>th</sup> 2024, Oaxaca, Mexico. Theme 1: The State of the World. Panelist for Plenary Session, Dr. Jane Southworth, Dr. Joe Mascaro, Dr. Maja Schluetr, with Moderator Dr. Nicholas Magliocca. November 7<sup>th</sup> 2024, 8:30-10:00 am.
- Good, Ryan Z., Leandra Merz, Carly Muir, Reza Khatami, and Jane Southworth. "Relationships between landscape-level conservation and vegetation persistence in East Africa: a remote-sensing perspective." Poster presented at the Association for Tropical Biology and Conservation Annual Meeting, Cartagena, Colombia, July 2022.
- 2022 Kahler, J., Southworth, J., Hull, V., and Morales-Giner, P. (15 Sept 2022). "Climate change & wildlife crime in social-ecological systems: A conceptual framework and examples from the Global South." When Climate Change Intersects Crime Webinar Series (https://www.sakraplatser.abe.kth.se/sv/2020/12/05/when-climate-change-intersects-crime/), Safeplaces Network, KTH Royal Institute of Technology, Sweden, & Northumbria University, UK. Recording found here: https://bit.ly/Jessica Kahler CCC Webinar
- 2021 Kahler, J., Morales-Giner, M.P\*., Hull, V., and Southworth, J. (2021, December). "Complex interactions between climate change and wildlife crime in social-ecological systems." 30th International Congress for Conservation Biology Conference. Kigali, Rwanda (Held Virtually).
- Audrey Smith and Jane Southworth. Association for Tropical Biology and Conservation Annual Meeting, July 2021: Large-scale land acquisitions and ecosystem services: Impacts on natural woodlands, biodiversity, and local livelihoods in Ethiopia (Held Virtually).
- 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
- 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

- 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.
- 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.
- 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.
- 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

- 2025 <u>Invited Speaker:</u> Webinar Presentation, Pontificia Universidad Catolica de Chile. "AI Across the Curriculum, AI Literacy & Transforming the University Ecosystem." March 14<sup>th</sup> 2025.
- 2025 <u>Invited Keynote Speaker:</u> University of Delaware, Winter Institute on Learning. "AI Across the Curriculum: Transforming a University ecosystem, and the tole of AI Literacy." January 14<sup>th</sup> 2025.

2024	Invited Speaker: University of North Carolina, Chapel Hill. EYRE Lecture and 2 day visit. December 4-6 <sup>th</sup> 2024. "AI Across the Curriculum: Transforming a University ecosystem, and the tole of Geospatial Research & Education."
2024	<u>Invited Speaker:</u> Harvard Center for Geographic Analysis, on <b>Evaluating the Science of geospatial AI.</b> May 2024
2024	Torit Chakraborty, Jane Southworth, Mehedy Hassan (2024). From grapes to pixels: GeoAI based approach for identifying vineyards for Stellenbosch vineyard detection. Poster Presentation, American Association of Geographers Annual Meeting, April 16-21, Honolulu, Hawaii.
2023	Invited Speaker: AI in Higher Education: Transforming the Teaching and Learning Experience Symposium. University of Tennessee, October 2023.
2023	Invited Speaker: Migliaccio, K.W. and J. Southworth. <b>Testimony to House Future Forum Caucus regarding AI across the Curriculum.</b> May 16. Washington D.C.
2023	Migliaccio, K.W. and J. Southworth. AI Across the Curriculum and Agriculture. AI in Agriculture: Innovation and Discovery to Equitably Meet Producer Needs and Perceptions Conference. April 17-19, 2023, Orlando, FL.
2024	Mohammad Safaei, Jane Southworth, Mohammad Mehedy Hassan (2024). Object-based Classification for Land Cover Change Mapping in Addo Elephant National Park using Landsat Imagery. Florida Society of Geographers, February 16-18, 2024, St. Augustine, Florida
2024	<u>Invited Speaker:</u> <b>Ecology &amp; Climate: Past Present and Future of GIScience.</b> American Association of Geographers Webinar. March 2024.
2024	Mashoukur Rahaman, Jane Southworth, Yixin Wen, David Keellings (2024). Assessment of Machine Learning and Deep Learning Methods for Almond Crop Detection in California's Central Valley, utilizing Remote Sensing. Presentation, American Association of Geographers Annual Meeting, April 16-21, Honolulu, Hawaii.
2024	<b>Jane Southworth.</b> Redefining Boundaries: Geography's Role in Tomorrow's Challenges. Presentation, American Association of Geographers Annual Meeting, April 16-21, Honolulu, Hawaii.
2024	Mohammad Safaei, Jane Southworth, Mohammad Mehedy Hassan (2024). Land Use and Land Cover Classification in Addo Elephant National Park: Analyzing the Impact of Variables, Algorithms, and Object-Based Approach. American Association of Geographers Annual Meeting, April 16-21, Honolulu, Hawaii.
2024	<b>Jane Southworth.</b> Chair for "GIS Certification - Get a certificate program started at your institution". American Association of Geographers Annual Meeting, April 16-21 Honolulu, Hawaii.



2022	Audrey Culver Smith, University of Florida; Jane Southworth, University of Florida; Large-scale land acquisitions and ecosystem services: Impacts on natural woodlands, biodiversity, and local livelihoods in Ethiopia. American Association of Geographers Annual Meeting, Virtual, February 2022.
2021	Audrey Smith and Jane Southworth. AAG, April 2021: Large-scale land acquisitions and ecosystem services: Impacts on natural woodlands and energy security in Ethiopia
2021	Good, Ryan Z., Jane Southworth, and Reza Khatami. "Vegetation Persistence in the Lake Victoria Basin: A Remote Sensing Perspective." Poster presented at the American Association of Geographers Annual Meeting, Virtual, April 2021.
2021	Audrey Smith and Jane Southworth. ATBC, July 2021: Large-scale land acquisitions and ecosystem services: Impacts on natural woodlands, biodiversity, and local livelihoods in Ethiopia
2021	Audrey Smith and Jane Southworth. AAG, April 2021: Large-scale land acquisitions and ecosystem services: Impacts on natural woodlands and energy security in Ethiopia
2021	Good, Ryan Z., Jane Southworth, and Reza Khatami. "Vegetation Persistence in the Lake Victoria Basin: A Remote Sensing Perspective." Poster presented at the American Association of Geographers Annual Meeting, Virtual, April 2021.
2021	Audrey Smith and Jane Southworth. FSG, Feb. 2021: Conflict in Africa: Are Land (and Water) Grabs a Threat Multiplier?
2020	Audrey Smith and Jane Southworth. SEDAAG, Nov. 2020: Conflict in Africa: Is the Recent Phenomenon of Lands Grabs a Threat Multiplier?
2018	Haro-Carrión, X., Loiselle, B., & J. Southworth. Understanding land-cover change and its impact on biodiversity in an Ecuadorian fragmented landscape. United States Regional Association of the International Association for Landscape Ecology (US – IALE) Annual Meeting, Chicago, IL. Oral presentation. April 2018
2018	Haro-Carrión, X., J. Southworth., & P. Waylen. Spatiotemporal Changes in Vegetation Greenness Across Continental Ecuador, 1982-2010. American Geophysical Union (AGU) Annual Meeting, Washington, D.C. Poster presentation. December 2018
2018	Khatami, R., Southworth, J., Muir, C., Caughlin, T., & Ayana, A. (2018, Oral). Operational large-area land-cover mapping: Ethiopia case study. Association of American Geographers (AAG) Annual Meeting 2018, New Orleans, LA.
2018	Muir, C., Southworth, J., Khatami, R., & Ayana, A. Vegetation Persistence and Change in Ethiopia as a Function of Climate. Association of American Geographers (AAG) Annual Meeting 2018, New Orleans, LA.

2018 Southworth, J., Ryan, S.J., Khatami, R., Waylen, P., Herrero, H., Bunting, E.L., Zhu, L., Hill, M., Latitudes and Land Use: Global Biome Shifts in Greenness Persistence across Three Decades. American Association of Geographers Annual Meeting, New Orleans. Hannah Herrero and Jane Southworth. Examining vegetation changes in Eastern Zambia savanna landscapes from 1984-2016: an integrated approach. Applications of Time Series 2018 Remote Sensing at the Global to Landscape Scale Session. American Association of Geographers Annual Meeting. New Orleans, LA. April 2018. 2017 Hannah Victoria Herrero and Jane Southworth. Temporal and spatial specificity of vegetation changes in Eastern Zambia savanna landscapes. Land Systems Science Symposium. American Association of Geographers Annual Meeting. Boston, MA. April 2017. 2017 Jane Southworth, Sadie Ryan, Hannah Herrero, Erin Bunting, Michael Hill, Peter Waylen, Likai Zhu Global biome shifts in greenness persistence across three decades: climate and anthropogenic drivers differ by hemisphere, and forests are in trouble. American Association of Geographers Annual Meeting. Boston, MA. April 2017. 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. Association of Geographers Annual Meeting. San Francisco, CA. April 2016. 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. Ryan, S.J., Southworth, J., Hartter, J., Dowhaniuk, N., Fuda, R., Diem, 2015 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. Southworth, Waylen, Bunting, Zhu, Huffaker, Campo-Bescos, Munoz-Carpena, and 2015 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.





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. <i>Association of American Geographers Annual Meeting, Washington DC</i> . 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.

- 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.
- Cerian Gibbes and Jane Southworth. "Turning up the heat." AAG Annual Meeting Presentation, San Francisco, CA, April 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.
- 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
- 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.
- 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.
- 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.



Working Forests in the Tropics: Conservation through sustainable management, Gainesville, FL.

- 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.
- 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.
- 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. 86<sup>th</sup> 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.
- 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.
- 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.
- 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 96th 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 10th International Soil Conservation Conference*, West Lafayette, IN.

- 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.
- 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.
- 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.
- 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.
- 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.
- 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

- 2024 Migliaccio, K.W. and J. Southworth. 2024. Presentation to the SACSCOC Review Team on the AI Across the Curriculum QEP. Feb 27-29. Gainesville, FL.
- 2023 Migliaccio, K.W. and J. Southworth. 2023. Presentation to AI College Leadership at UF. Jul 26.
- 2023 Migliaccio, K.W. and J. Southworth. 2023. Overview of AI Across the Curriculum. Jan 6. University of Albany, UF campus visit.

- 2022 Migliaccio, K.W. and J. Southworth. 2022. QEP: Update on progress. Invited Speaker. Strategic Communications AI Retreat. Jul 25. Gainesville, FL.
- 2022 Migliaccio, K.W. and J. Southworth. 2022. QEP: AI Across the Curriculum. Invited Speaker. IFAS AI Advisory Board meeting. Gainesville, FL.
- 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
- 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.
- 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?'
- 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 Entemology 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'
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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
- 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.
- 2005 Science Fair Judge at Hidden Oak Middle School. December 2005

#### **COURSES TAUGHT**

#### **Graduate Level**

Contemporary Geographic Thought
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**

- (1) Editorships and service on editorial boards of regional, national, or international publications
- Invited Specialty Chief Editor of the Remote Sensing Time Series Analysis specialty section of Frontiers in Remote Sensing. I am the only female Chief Editor (10 men!). I develop the overview of this journal and invite editorial board members to join. Prestigious Invitation.
  - o <a href="https://www.frontiersin.org/journals/remote-sensing/sections/remote-sensing-time-series-analysis">https://www.frontiersin.org/journals/remote-sensing/sections/remote-sensing-time-series-analysis</a>
  - Wrote Challenges piece to lead the direction of this new journal section, emphasizing the role of AI in this field: https://www.frontiersin.org/articles/10.3389/frsen.2021.770431/full
  - Currently developing and leading a new special issue featuring Women in Remote Sensing: <a href="https://www.frontiersin.org/research-topics/29593/women-in-remote-sensing-2022">https://www.frontiersin.org/research-topics/29593/women-in-remote-sensing-2022</a>
- Editor, Global Environmental Change, started December 2023
- Editorial Board Member of 'Progress in Environmental Geography (PiEG)'
- Consulting Editor: 'Geographical Analysis'
- Editorial Board Member of 'Journal of Land Use Science'
  - Developed and led a special issue on 'Women in Land Science' highlighting top researchers, challenges, and frontiers of women in this field. Overwhelming number of submissions received!
- Editorial Board Member of 'LAND'
- Editorial Board Member of 'Current Conservation'

(2) <u>Professional Service</u>		
2024 – 2026	Member of the AAG task force on nurturing undergraduate geography education (aka the Gen A Project)	
2023-24	Nominated and ran for Vice-President of AAG. (Dr. Bill Moseley won)	
2023-24	Proposing development of new AAG Specialty Group: Women in Remote Sensing/GeoAI. Running sessions and information gathering.	
2023 – current	Serve as the Florida Statewide Course Numbering System Discipline Coordinator for Geography – I review and assign course numbers to ALL Geography classes in the state university system.	
2023	HERS Leadership Institute Graduate, Class of 2023	
2021-2022	NASA LCLUC Program Proposal Reviewer – Fall 2021	
2021-2023	NSF HEGS Panel Reviewer and Member (2-year term)	
2013-current	Ad hoc Reviewer NSF [GSS, HEGS and CNH Programs]	
2013-current	T&P external reviewer for multiple universities [approx. 5 per year]	
2015-2018	External Reviewer for Dissertations: Cape Town [3], Norway	
2015-2019	External reviewer for European Funding Agencies in Remote Sensing	
2013-2014	Panelist NSF GSS	
2009-2013	Member, NASA Science Team	
2010	Co-leader for the Geography Faculty Development Alliance (GFDA) Workshop, where with Dr. Kenneth Foote (University of Colordao, Boulder), Dr. Scott Freundschuh (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
2000-2009	Editorial Advisory Board member: <i>Agriculture, Ecosystems and Environment</i> [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 <i>Linking Social &amp; Ecological Systems</i> . 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: PNAS, 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,

Land, Frontiers in Remote Sensing, Journal of Land Use Science, Remote Sensing Environment

# **University Service**

Nov 2024-May 2025

As Co-Chair of the **AI BlueSky Visioning Taskforce** (November 2024–May 2025), I partnered with Dr. Kati Migliaccio to lead a university-wide initiative charged with defining the future of AI at the University of Florida. Appointed by Provost Joe Glover, our taskforce was tasked with envisioning how UF will evolve over the next five years to meet the rapidly advancing needs of AI-driven education and research, while maintaining UF's position as a leader in AI integration across the curriculum and leveraging cutting-edge resources like the HiPerGator supercomputer.

We developed and led a series of **interactive**, **two-hour workshops** to engage UF faculty, staff, students, and community stakeholders in envisioning the future of AI at the University of Florida. These workshops were designed to gather diverse perspectives and bold ideas to inform the university's strategic planning for AI education and research. The sessions encouraged collaborative brainstorming, discussion, and prioritization of innovative ideas. In addition to live workshops, I co-designed and implemented an **asynchronous online workshop** to ensure broad participation from those unable to attend in person.

# Live Workshops for UF Faculty, Staff, and Students

- December 10, 2024, 2:00–4:00 PM
- December 18, 2024, 2:30–4:30 PM
- December 20, 2024, 2:30–4:30 PM
- January 6, 2025, 2:30–4:30 PM
- January 8, 2025, 9:00–11:00 AM
- January 24, 2025, 2:00–4:00 PM
- January 28, 2025, 10:00 AM-12:00 PM

# **Workshops for External Audiences**

- December 9, 2024, 5:00–7:00 PM Online Workshop for Florida 4-H Participants
- January 15, 2025, 11:00 AM-1:00 PM Workshop at Oak Hall High School
- December 16, 2025, 12:00–2:00 PM Workshop at P.K. Yonge High School

### **Asynchronous Online Workshop**

 January 20–26, 2025 – Asynchronous Canvas Workshop for Faculty, Staff, and Students Unable to Attend Live Sessions

2024-2025

Member of the Organizing Committee for the AI<sup>2</sup> Center AI Summit, Orlando FL Feb 2025.

 Panel Organizer & Chair. Panel Title: Expanding AI Literacy: Building Knowledge, Skills, and Ethics in Education. Date/Time: Tuesday, February 18th, 4:00–5:15 PM. Location: South Ballroom. This panel, cochaired by Dr. Asim Ali of Auburn University and Dr. Jane Southworth of the University of Florida, will explore the critical role of AI literacy in higher education and beyond.

2024

Member Water Institute Director Search Committee

2023-2024

University of Florida Provost Search Committee Member

2021-2024

Task Force Co-Chair: Quality Enhancement Program for UF 'AI Across the Curriculum' with Dr. Kati Migliaccio from ABE

QEP and AI Across the Curriculum: The University of Florida charged two co-chairs (myself and Kati) and our task force to develop a Quality Enhancement Plan that will provide students with the opportunity to acquire knowledge, skills, and applications in Artificial Intelligence (AI). The five-year plan (2024-2029) coincides with the "Your Pathway to AI" (University of Florida, 2021a) which places AI at the center of a major, long-term initiative combining world-class research infrastructure and cutting-edge research with a transformative curriculum. The co-chairs and committee were charged in October 2021, and our first task force meeting occurred in November 2021. Document has now been completed and presented (February 2024) to SACSCOC – all approved and finalized.

Kati and I were chosen as task force co-chairs due to our existing involvement in department, college, and university AI efforts prior to being nominated to the QEP effort. Once given the QEP charge, we began weekly meetings together to share information and explore ideas. During initial meetings, a survey of UF Deans (representing UF colleges) was conducted and feedback from this survey was useful in guiding us. Given the AI-based activities that were already occurring at UF, we began the QEP task force effort with brainstorming sessions. This was followed by idea refinement and continued meetings of subgroups. Kati and I, as co-chairs, meet weekly to assimilate group output and provide adaptive direction for continued progress. Together we created a powerpoint presentation, in the required AI template format, to be able to start sharing information across campus. This presentation is updated weekly, and Kati and I have given numerous talks all over campus on the QEP and related AI Across the Curriculum efforts at UF.

# TALKS GIVEN By KATI & JANE FOR THE AI ACROSS THE CURRICULUM/QEP PROGRAM

- January 21, 2022. QEP & AI Branding Meeting with Tim Brophy, Dana McPherson, Maria Leite.
- January 26, 2022. QEP meeting with David Reed to review initiatives and receive feedback.

- January 26, 2022. QEP & AI Branding meeting with Melanie Schramm (AVP Marketing), Dana McPherson, Tim Brophy, Maria Leite.
- February 1, 2022. QEP Update Presentation with Joe Glover and Tim Brophy.
- February 10, 2022. Presentation to UF AI Curriculum Committee.
- February 21, 2022. K-12 Education Programs with Kim Jacobs (HWCOE).
- February 22, 2022. QEP and AI Center Meeting. Joe Glover and Tim Brophy.
- February 24, 2022. QEP Meeting regarding undergraduate curriculum with Angela Lindner and David Reed.
- March 7, 2022 UF Executive Committee meeting
- March 14, 2022 SLO and student success meeting with Tim Brophy
- March 16, 2022 QEP meeting with FIU regarding their recently implemented QEP
- April 7, 2022. Faculty Senate Steering Committee Meeting to introduce QEP Initiatives and Name.
- April 14, 2022. Faculty Senate Meeting to introduce QEP Initiatives and Name.
- May 11, 2022. Presentation to HWCOE Assoc Dean Curtis Taylor
- May 11, 2022. Presentation to CLAS Chairs and Directors
- May 23, 2022. Presentation to IFAS Chairs meeting
- July 25, 2022. Presentation at UF's 'AI Communications Summit'
- August 15, 2022. Presentation to CLAS Staff AI Discussion
- September 23, 2022. Presentation to SEC Information Technology Group
- November 4, 2022. Presentation to UF Alumni, Grand Guard Faculty Speaker
- December 8, 2022. Presentation to UF BOT, AI in the Curriculum and the QEP
- February 2024, Presentation to SACSCOC

#### KATI AND JANE DEVELOPED MATERIAL AND RAN TASK FORCE MEETINGS:

### TASK FORCE MEETING DATES

Date and time	Location
January 25, 2022, 3-5pm	Reitz Union classroom G320
February 22, 2022, 3-5pm	Reitz Union classroom G320
March 22, 2022, 3-5pm	Reitz Union classroom 2355
April 26, 2022, 3-5pm	Reitz Union classroom 2355
May 24, 2022, 3-5pm	Turlington Hall 3018
September 28, 2022 9-11am	Turlington Hall 3018
November 2, 2022, 9-11am	Turlington Hall 3018

Fall 2023	Presented to Oregon State University on QEP and our AI Program at UF
2022-24	Developing CLAS AI webpage with AD McCarty and CLAS Communications Group
2023-24	External Member on Search for New Chair in Anthropology
2024	Member Water Institute Director Search Committee
2021-22	External Member on Search for New Chair in Geological Sciences

2020- current	Developed and serve on 'CLAS AI Curriculum Committee'
2020- current	Serve on 'UF AI Curriculum Committee' as CLAS Faculty Representative
2020- current	Serve on 'UF AI Research Committee' again as CLAS Representative
2021- current	Reviewer for Bob Graham Center Fellowships
2017- current	Member of Sustainability Degree Advisory Board
2015-2018	Elected to serve 3-year term on the Graduate Council
2018	External member on Search for New Chair in Economics
2017	External member on Search for New Chair in Psychology
Fall 2013	Hosted UF Visitor – Dr. Michael Mann, Penn State
Fall 2013	Drafted memo on Preeminence 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 2006-2008	CLAS Dissertation Fellowship Selection Committee 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. I have signed up for 2 additional appointments, August 2019- August 2022, and August 2022- August 2025. I am now in my third, and final term as Chair. 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: to undertake a major departmental renovation of our physical space and update/create all departmental media/handouts, update all webpages and develop a real social media presence. All these tasks are complete, and website is currently undergoing its second overhaul since I became chair.

I am currently starting my 9<sup>th</sup> year as Chair of Geography and many of the items from my previous terms are continuing and new program development also underway. Main areas I am currently focused on are:

- Two new classrooms including receiving funding of \$106,000 for OmniGlobe
- First ever Geography Alumni Event: Held March 2022, now repeating annually very successful
- Giving Day led by Dr. Katy Serafin, received 64 gifts and close to \$5,000 raised this was our first foray into this area and now will be an annual event, now in year 3 receive over \$8,000 and over 125 gifts annually
- Led proposal which produced a \$1,000,000 gift commitment for a new Poehling Professorship in Geography. Paperwork has been signed.
- Developed a Newsletter Geogator Gazette to highlight Geography's accomplishments and to mail out to Alumni and Giving Day givers. Will continue annually going forward.
- Developed and submitted paperwork for a new Off-Book Certificate Program: A 'Graduate Certificate in Digital Geography and GIS'. Approved Fall 2022.
- Continued renovations: Worked with Margaret Fields on continued renovations in Geography renovated old lab into a research lab [TUR3016] for faculty and converted old graduate lab into new lab space for Dr. Blackburn [TUR 3014].
- Created a new research lab space for graduate students in GeoAI TUR1216, completely renovated space and purchased new desks and computers [Departmental IDC]
- Developed new Climatology Research Space [TUR3032]
- New signage for all Geography spaces
- New posters on Geography foci designed and created all 20 posters now mounted on first floor. Negotiated for the first-floor corridor display with Dean.
- Run junior faculty meetings monthly, and meet annually one on one with all 13 junior faculty for check-in/updates and input to APR [Annual Program Review]
- Run 3 faculty all-day, off-campus retreats every year Last years were April 2022, December 2021, and August 2021. Always around this time of year as use reading days for the April and

December meetings, and week prior to new semester starting in August. Here we worked on new research foci and teaching areas, developing new alumni event, recruitment of students - graduate and undergraduate, developed new undergraduate themes etc. Focus on integration of AI across our curriculum and idea for increased undergraduate enrolment.

- Served on the 'CLAS AI Committee', as well as serving on: 'UF AI Curriculum Committee' as CLAS Faculty Representative and 'UF AI Research Committee' again as CLAS Representative
- Grew Social Media presence now also on Instagram and Vine. Significant increase in Social Media traffic being recorded.
- New Meteorology Program Preproposal was resubmitted in Spring 2021 and full proposal submitted (final step) in September 2022. Massive amount of work for team involved (Stephen Mullens, Dr. Esther Mullens, Dr. Cori Matyas, and Dr. Berry Wen)
- Developed relationship with DIAL Center, established MOU which will now fund 2 Geography TAs per year
- Developed relationship with UF's Writing Program now established MOU with 4 funded TA's per year
- Continued to encourage and even prioritize Quest courses in department –we had 4 new Quest courses offered last year will be 5 offered this coming year [funding another 3 TAs annually]
  - o Global Patterns of STIs [Hamerlinck]
  - o Living with Rising Seas [Serafin]
  - o The Next Pandemic [Hamerlinck]
  - o Humanities Course: Blues, Music & Culture [Fik]
  - The Future of Energy [Engstrom]
- Encouraged all new faculty to submit their new courses for approval and instituted policy where after taught once as a topics course must be submitted to UCC for all older courses to get all existing courses onto the books. As such, Geography has continued to develop many new courses and getting them submitted to the UCC and finally starting to get the new course numbers. In addition, many faculty have submitted for Gen Ed where appropriate and so again helping to pull students into our courses in terms of enrolments.

### **Associate Chair (January 2014-2016)**

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

- 1. <u>Develop the UFO Program for Geography</u> getting it into the catalogue and sheparding through our courses and course development
- 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
- 3. Social Media: Develop an online presence for the Department in terms of Social Media
- 4. Bring new Certificate Programs online
- 5. Department Name Change

# **Graduate Coordinator: 2005-2012**

I served as the Geography Department Graduate Coordinator, during which time I 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.

# Other Departmental service

Designed and funded new Flipped Classroom in Geography department – TUR 3006.  Led committee for development of new UF Online BA in Geography and minor in Geography – BA approved and due to start Fall 2015.  Worked with committee to develop new Medical Geography in Global Health BA and BS Programs in Geography. Paperwork submitted to college May 2015  Developed a certificate in Geographic Technologies with Dr. Liang Mao. Submitted to college May 2015  Graduate Admissions Committee – Member  Chair - Search Committee Medical Geography (assistant Associate level) Geography and EPI joint position Hired: Dr. Sadie Ryan  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').  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').  Chair – Merit Review Committee  Chair – Merit Review Committee  Chair – 3rd Year Review, Dr. Youliang Mao  Member Geography Department Graduate Admissions Committee  Ryan Poehling Fellowship Committee  We are currently working on developing a climate curriculum within the department and I am part of this endeavor.	2018	Designed and raised funding for laptop lab classroom renovation - TUR3018
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 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	2015-2016	
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	2008-2012	
	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 2003-2005	Search Committee Member (GIS/Computer Technician) 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)

# GRADUATE STUDENTS

Graduate Faculty Status received Spring 2003. I currently serve as chair for 8 PhD students, and 1 Masters student. I have graduated an additional 33 graduate students: 9 Masters and 24 PhD. I also mentor female graduate students across disciplines.

# **Current Doctoral Students Advised (8):**

### **Torit Chakraborty**

• Identification of Agricultural cropping systems using deep learning approaches

# Muyeed Hasan

• Social-ecological systems in Bangladesh

### **Audrey Smith**

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

### Mohammad Safaei

• Machine learning, deep learning and advanced classification analysis

#### Bewuket Tefera

• Social-ecological systems and agricultural transformation in Ethiopia

#### Yu (Vera) Tian

• Urban sustainability and remote sensing

### Anusha Chaudhury

• Urban vegetation and health linkages, and conservation of African landscapes

#### Mashoukur Rahaman

• Machine learning and deep learning remote sensing classification

# **Current Masters Students Advised (2):**

### Mason Theurer

• Wildlife conservation, remote sensing and landscape analysis of Florida landscapes for Corridor development

#### Sarah VanSchoik

• Flood Mapping for Hurricane Ian and social disaster mitigation and impact assessment

# **Graduated Doctoral Students [24]**

1. Dr. Carly Muir

Graduated Summer 2023 Research Scientist, William and Mary

2. Dr. Leandra Merz (Co-Chair with Dr. Brian Child)

Graduated Spring 2022.

Assistant Professor, San Diego State University

https://www.researchgate.net/profile/Leandra-Merz

3. Dr. Ryan Good

Graduated Summer 2021 Lecturer, SNRE, University of Florida

### https://snre.ifas.ufl.edu/people/faculty-staff-and-administration/good/

### 4. Dr. Mehedy Hassan

Graduated Summer 2021.

Postdoc, University of Florida

https://geog.ufl.edu/alumni-2/mehedy/

https://scholar.google.com/citations?user=4cxbjzIAAAAJ&hl=en

#### 5. Dr. Xavier Haro-Carrion

Graduated Summer 2019.

Assistant Professor, Macalester University

https://www.macalester.edu/geography/facultystaff/xavier-haro-carrion/

https://xavierhc.weebly.com/

### 6. Dr. Meshari Alenzi

Graduated Summer 2019.

Assistant Professor, University of Kuwait

https://scholar.google.com/citations?user=4SCb85EAAAAJ&hl=en

#### 7. Dr. Hannah Herrero

Graduated Summer 2019.

Assistant Professor, University of Tennessee

https://geography.utk.edu/about-us/faculty/dr-hannah-herrero/

https://www.researchgate.net/profile/Hannah-Herrero

#### 8. Dr. Mehmet Ozdes

Graduated Spring 2018.

Assistant Professor, Namik Kemai University, Turkey

http://fened-c-en.web.nku.edu.tr/Personel/0/s/4812/5047

https://www.researchgate.net/profile/Mehmet-Ozdes-2

#### 9. Dr. Forrest Stevens

Graduated December 2015.

Associate Professor, University of Louisville

https://louisville.edu/geogeo/our-people/profiles/forrest-r-stevens-ph-d

https://scholar.google.com/citations?user=L YiAkgAAAAJ&hl=en

### 10. Dr. Erin Bunting

Graduated Summer 2014.

Assistant Professor and Director of Remote Sensing Institute, Michigan State University

https://geo.msu.edu/directory/bunting-erin.html

https://scholar.google.com/citations?user=qClqu8EAAAAJ&hl=en

#### 11. Dr. Tim Fullman

Graduated Summer 2014. Co-Chair with Dr. Brian Child.

Senior Ecologist, The Wilderness Society

https://www.wilderness.org/about-us/tim-fullman-phd

https://www.researchgate.net/profile/Timothy-Fullman

#### 12. Dr. Jessica Steele

Graduated Summer 2014.

Senior Enterprise Fellow, University of Southampton

https://www.southampton.ac.uk/people/5xf866/doctor-jessica-steele

https://www.researchgate.net/scientific-contributions/Jessica-E-Steele-2143568041

# 13. Dr. Likai Zhu

Graduated Summer 2014.

Associate Professor, Linyi University, China

https://scholar.google.com/citations?user=B8UnCHMAAAAJ&hl=en

### 14. Dr. Jing Sun

Graduated Summer 2013.

Professor, Institute of Agricultural Resource and Regional Planning, Chinese Academy of Agricultural Sciences, Beijing, China

https://www.researchgate.net/profile/Jing-Sun-46

#### 15. Dr. Muhammad Almatar

Graduated Fall 2012.

Associate Professor & Chair, University of Kuwait

https://www.researchgate.net/profile/Muhammad-Almatar

# 16. Dr. HuiPing Tsai

Graduated Fall 2012.

Faculty member, NCH University, Taiwan

https://www.researchgate.net/profile/Huiping-Tsai

#### 17. Dr. Cerian Gibbes

Graduated Spring 2011.

Associate Professor, University of Colorado, Colorado Springs

https://ges.uccs.edu/cerian gibbes

# 18. Dr. Sanchayeeta Adhikari

Graduated Spring 2011.

Associate Professor, University of California, Northridge

https://www.csun.edu/social-behavioral-sciences/geography/sanchayeeta-adhikari

#### 19. Dr. Pinki Mondal

Graduated Fall 2010.

Assistant Professor, University of Delaware

 $\underline{https://www.udel.edu/academics/colleges/ceoe/departments/gss/faculty/pinki-mondal/gss/faculty/gss/faculty/pinki-mondal/gss/faculty/gss/facult$ 

https://scholar.google.com/citations?user=PnouwuQAAAAJ&hl=en

#### 20. Dr. Claudia Stickler

Graduated December 2009.

Scientist, Earth Innovation Institute

https://earthinnovation.org/about/eii-staff/4

https://www.researchgate.net/profile/Claudia-Stickler

### 21. Dr. Jaclyn Hall

Graduated Summer 2009.

Research Scientist, Health Outcomes and Biomedical Informatics, University of Florida https://hobi.med.ufl.edu/profile/hall-jaclyn/

### 22. Dr. Amy Daniels

Graduated Summer 2009.

Research Scientist

#### 23. Dr. Matt Marsik

Graduated Fall 2008 (Co-Chair with Dr. Peter Waylen)

Data Management Analyst, UF Health

https://scholar.google.com/citations?user=ANZWueQAAAAJ&hl=en

https://www.researchgate.net/profile/Matthew-Marsik

### 24. Dr. Joel Hartter

Graduated Fall 2007 (Co-Chair with Dr. Abe Goldman)

Professor & Director of MENV Program, University of Colorado, Boulder

https://www.colorado.edu/envs/joel-hartter

https://jhartter.weebly.com/

# **GRADUATED:** Masters Students [9]

1. Mashoukur Rahaman

Graduated December 2023

Started PhD at UF, Spring 2024

# 2. Tyler Schaper

Graduated Spring 2021.

Works in Foreign Affairs, US Government

https://www.linkedin.com/in/tyler-schaper-27043388

### 3. Audrey Smith

Graduated Spring 2017.

Continued on to PhD [see above]

#### 4. Hannah Herrero

Graduated Spring 2015.

Continued on to PhD [see above]

#### 5. Mariano Gonzalez

Graduated Fall 2009.

Continued on to PhD at Duke University

Country Director, Wildlife Conservation Society, Argentina

https://scholar.google.com/citations?user=6yRjqVsAAAAJ&hl=enhttps://ar.linkedin.com/in/mariano-gonzalez-roglich-8a061913

6. Forrest Stevens

Graduated Spring 2009. Continued on to PhD [see above]

7. Muhammad Almatar

Graduated Spring 2008. Continued on to PhD [see above]

8. Cerian Gibbes

Graduated Fall 2006. Continued on to PhD [see above]

9. Rob Lopez

Graduated Spring 2006. Geospatial Analyst, US Department of Defense https://www.linkedin.com/in/robert-lopez-5422164a

### POST-DOCS AND VISITING FELLOWS

- Julius Roderick Dewald: Served as an external member of his PhD committee at University of Miami, and now his remote sensing mentor in his postdoctoral position with Drs. Scott Brown and Jose Szapocznick, both from the University of Miami
  - o <a href="https://people.miami.edu/profile/j.dewald@umiami.edu">https://people.miami.edu/profile/j.dewald@umiami.edu</a>
  - o https://scholar.google.com/citations?user=AqLLGboAAAAJ&hl=en
- **Mehedy Mohammad Hassan:** Postdoctoral scholar, working on time series analysis, machine learning and advanced classification approaches. Jan 2021 current
  - o https://scholar.google.com/citations?user=4cxbjzIAAAAJ&hl=en
- **Reza Khatami:** Postdoctoral scholar, working on time series analysis, land cover change and land transactions in Ethiopia and Florida agricultural analysis. Jan 2017 Jan 2021
  - o https://scholar.google.com/citations?user=ksex1GgAAAAJ&hl=en
- **Guo Cuo:** Visiting Scholar, China. Worked on remote sending 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. <a href="Project">Project</a>: NSF grant: Infrastructure change, human agency, and resilience in social-ecological systems.