

## **JOHN F. WEISHAMPEL**

College of Graduate Studies/Department of Biology  
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### **Career Highlights Relevant to the UCF College of Graduate Studies (CGS) Dean Position**

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#### **Academic Administrative Leader**

- As CGS interim dean/senior associate dean, help manage ≈\$18M budget, work with 50+ staff members and college partners to administer operations, i.e., recruitment to graduation, for 37 doctoral, 101 master's/specialist, and 96 certificate programs (≈100 of these programs are completely online or have online tracks)
- Contributed to achieving UCF goals from 2016-2021 and 2022-2027 strategic plans, these included:
  - Increasing graduate student enrollment from 8,029 to 10,000 (we currently are ≈10,600)
  - Increasing postdoctoral appointees from 52 to 200 then to 225 by 2027 (we currently are ≈300)
  - Doubling graduate students receiving national/international awards - in 2015 UCF had zero international Fulbright matriculants, after strategizing with UCF Global/Institute of International Education (iie), now UCF typically enrolls ≈20 Fulbrighters annually
  - Increasing graduate student stipends - minimum GRA stipends on new grant proposals rose from \$10K (master's) and \$12K (doctoral) to \$19.2K effective January 2026; Goal now is to increase GTA stipends
- Established/oversee the Office of Postdoctoral Affairs (\$5M/yr budget); developed the Preeminent Postdoctoral Program (P3) and Short-Term Postdoctoral Support (STePS) program to provide PI match support
- Serve on the Graduate School Deans Affinity Group of the Alliance of Hispanic Serving Research Universities (HSRU) to accommodate the unique needs of 25 R1, HSIs
  - helped develop ASCEND<sup>R</sup> (Advancing STEM Careers through Education, Networking, Development Research) Fellowship to support 35 HSRU PhD students
  - helped develop HSRU Postdoctoral Fellowship Cohort Program that supports 29 scholars
- As Graduate Program Director, managed and led enrollment management efforts for
  - Interdisciplinary Studies (CGS), MA/MS increased from 10 students (2015) to ≈70 (2022)
  - Biology (College of Arts & Sciences - CAS now College of Sciences - COS), certificate/MS/PhD increased from ≈50 students (2000) to >100 (2005)

#### **National Graduate Education Advocate**

- As an NSF IPA (Intergovernmental Personnel Act) Program Officer in the Division of Graduate Education:
  - Led NSF Research Traineeship (NRT) program, a cross-directorate program with an annual budget of >\$50M and a portfolio of >100, interdisciplinary \$3M-projects funding >4000 students
  - Led Innovations in Graduate Education (IGE) program, which had an annual budget of >\$5M supporting >50, \$300K-\$500K projects to advance graduate education; Program supported the *IGE Hub* on the Council of Graduate Schools website
- Invited to and helped organize/contribute to workshop on “Making a Case for the Value of the Graduate School” at the 2025 Council of Graduate Schools annual conference, Washington, DC
- Organizer and speaker at 2021 NSF *Shaping 21<sup>st</sup> Century STEM Graduate Education* Conference (virtual) for >80 institutions representing >100 interdisciplinary academic programs
- Invited speaker at 2020 *Catalyzing Advances and Generating Knowledge: Innovations in Graduate STEM Education* meeting, American Chemical Society, Washington, DC and 2019 NSF *Research Traineeship: Tools for Success* meeting, Northwestern University, Evanston, IL
- Hosted the 2019 National Postdoctoral Association (NPA) and 2016 Southeastern National Association of Graduate-Professional Students (NAGPS) Chapter conferences and provided keynote address for the latter
- Served as UCF Representative to the National Professional Science Masters Association (NPSMA), Coalition of Urban Serving Universities (a component of the Association of Public & Land-Grant Universities - APLU), and the Association of Graduate Liberal Studies Programs (AGLSP)
- Affiliate Member of American Association for the Advancement of Science (AAAS) SEA (STEM Equity Achievement) Change/Exemplary Pathways Partnership (EPP) Program
- Through an NSF-funded grant “Broadening Participation in STEM Graduate Degrees and the U.S. STEM Workforce” helped develop data collection methods to quantify national application/matriculation patterns

### **Academic Program Developer**

- Primary author for Conservation Biology (now Integrative and Conservation Biology) PhD, Conservation Biology graduate certificate, and BS in Environmental Studies (now in CCIE) proposals and coordinated efforts for undergraduate and graduate Geographic Information Systems (GIS) certificate proposals
- Worked with UCF faculty to develop proposals for new graduate degrees in: Aerospace Engineering, Big Data Analytics, Biomedical Engineering, Business Analytics, Communication Sciences and Disorders, Computer Vision, Cybersecurity, Emergency and Crisis Management, Event Leadership, FinTech, Health Promotion and Behavioral Sciences, Integrative Anthropological Sciences, Nutrition Sciences and Dietetics, Planetary and Space Sciences, Public Administration, Robotics and Autonomous Systems, Strategic Communication, Themed Experience, Travel Technology and Analytics
- Encouraged and helped facilitate the development of accelerated bachelor's to master's degree programs (i.e., 4+1) primarily for Engineering and Computer Science degrees, continue to review new opportunities
- Helped develop several "master's along the way" degree programs for students who enter doctoral programs with only a baccalaureate degree
- Participated on the Faculty Cluster Initiative (FCI) committee where faculty-led, interdisciplinary groups were identified to guide strategic hiring in several key areas: Cybersecurity; Disability, Aging, & Technology; Energy Conversion & Propulsion; Genomics & Bioinformatics; Geospatial Sciences (FCI prototype in COS); Learning Sciences; Prosthetic Interfaces; Renewable Energy Systems; Sustainable Coastal Systems; and Violence Against Women
- Serve on Academic Program Quality (APQ) review committee, which reviews degree programs every seven years bringing in external consultants to guide program trajectories and meet accreditation standards

### **Partnership Builder**

- Directed Alfred P. Sloan Foundation-funded (≈\$425K) project to develop pathways for undergraduates from regional private liberal arts colleges (i.e., Eckerd, Lynn, Rollins, Stetson) into Florida Consortium of Metropolitan Research Universities (FCMRU, i.e., FIU, UCF, USF) STEM graduate programs
- Assisted faculty to formulate academic agreements for graduate education collaborations (e.g., 4+1, dual degree, reciprocal student exchanges) with Florida (FAMU, UNF) and with UCF Global International (e.g., Ajou University-Korea, Hasselt University-Belgium, Inha-Korea, ISCTE-Portugal, ITA-Brazil, IULM-Italy, Kyung Hee-Korea, PSG Technology-India, Sejong University-Korea, Université de Bordeaux 1-France, University of Curacao, Université Paris-Saclay-France, Zhejiang University-China) universities; Currently a semifinalist for 2026 Fulbright International Education Administrator (IEA) award to South Korea
- Worked with local industries to provide internships for Professional Science Master (PSM) students in Biotechnology, Conservation Biology, Modeling & Simulation, and Nanotechnology PSM programs
- In conjunction with a University Industry Demonstration Partnership (UIDP)/NSF project, working with Siemens Energy to develop industry/government-supported fellowships for doctoral students
- Liaised with U.S. Space Force/UCF Office of Research to connect UCF graduate programs to military/civilian personnel including the online MBA that focuses on space commercialization
- Collaborated with Disney Animal Kingdom scientists to create a Zoo and Aquarium Biology Management class in conjunction with the Conservation Biology Graduate Certificate
- Worked with Dept. of Education/UCF Foundation, Hubbs-SeaWorld, Winter Park Garden Club, Nelson Ying Philanthropic Foundation, and UCF Women's Club to establish endowed faculty positions and scholarships
- Helped formalize affiliation of NASA Kennedy Space Center environmental researchers with UCF
- Worked with Direct Connect State College (Daytona, Eastern Florida, Seminole, Valencia, Lake Sumter) partners to align curriculum for undergraduate transfer students
- Initiated the CGS Faculty Fellow program starting with fellows from CCIE and CECS:
  - 2019-2020 – Ann Shillingford "Increasing high-quality graduate students from Latin America/Caribbean"
  - 2025-2026 – Nazanin Rahnavard "Graduate Enrichment Mentoring Initiative – GEMiNi"
- Led efforts to more than double the number of gifts for Day of Giving 2025 from prior year-- a 126% increase
- With UCF Advancement & Partnerships and Office of Undergraduate Research, helped identify donors (e.g., UCF Learning Institute for Elders-LIFE, Florida High Tech Corridor) to establish a permanent, sustainable funding source to support Student Research Week and potentially other CGS-affiliated events

### **Teacher/Mentor of Students and Faculty**

- 30+ years of experience of teaching and mentoring a diverse body of undergraduate and graduate students
- Received UCF College of Arts & Sciences & University-wide Excellence Awards for Graduate Teaching and UCF College of Sciences Excellence in Undergraduate Teaching Award and was a three-time recipient of UCF Teaching Incentive Program (TIP) award
- Led UCF NSF-funded FIRST (Faculty Institutes for Reforming Science Teaching) professional development program for Department of Biology and STEM faculty members
- Chaired 36 MS thesis and 8 PhD dissertation committees and supervised 6 postdoctoral scholars
- Member of three undergraduate Honors in the Major, 69 MS/MA, and 26 PhD/EdD committees representing 11 different degree programs from six colleges (from UCF and other institutions)
- Published and presented scores of scientific papers with undergraduate and graduate students and postdocs as co-authors in peer-reviewed journals and at local, national, and international professional conferences
- Mentored students who have received EPA-STAR, NSF-GRFP, NASA-FINESST, and Fulbright Fellowships
- Mentored junior UCF faculty in anthropology (Reyes-Foster, Starbuck), biology (Mansfield, Quintana-Ascencio, Von Holle), chemistry (Chumbimuni-Torres), digital media (Harrington), and mathematics (Shuai)
- Served as UCF Office of Research NSF CAREER Award Mentor for three successful biology faculty members (De Bekker-2020, Song-2013, Waterman-2006) submissions
- Served as Eminent Scholar Mentor for University of Maryland Baltimore County (UMBC) faculty member (Fagan) from the Department of Geography and Environmental Systems
- Led 2017 and 2018 “Mentoring for Success” for UCF Faculty Excellence Leadership Series, and initiated CGS Faculty Fellow program whose focus is on building a culture of mentoring
- Hosted contributors to the National Academy of Sciences, Engineering, Medicine (NASEM) *The Science of Effective Mentorship in STEMM* report to present findings to UCF graduate faculty/program directors
- Organized a 2023 a UCF faculty/graduate student workshop with Center for the Improvement of Mentored Experience in Research (CIMER)/National Research Mentoring Network (NRMN) facilitator
- Initiated faculty awards for Excellence in Mentoring Doctoral Students and Postdoctoral Scholars
- Supported nascent Knights Research Scholars Program (KRSP) that develops research/mentoring relationships between postdoctoral scholars/graduate students and undergraduates

### **Interdisciplinary Scholar**

- National Research Council (NRC) Research Associate with Biospheric Sciences Branch at NASA Goddard Space Flight Center
- NSF CAREER (Environmental Biology) awardee “Analyzing, Modeling, and Visualizing 3-Dimensional Structural Complexity in Forest Canopies”
- NASA New Investigator (Earth Science) awardee “Detecting and Modeling Spatial Canopy Properties of of Forested Landscapes”
- Brought in ≈\$15M in grants/contracts as PI or CoPI from federal (DOD, ED, EPA, NASA, NOAA, NSF, USDA), state, and private funding sources
- Three-time UCF Research Incentive Awardee (RIA), and recipient of UCF Presidential Merit Award
- Fulbright Awardee (Distinguished Research Chair in Department of Geography at Simon Fraser University-2006 and Senior Scholar in Institute of Forest Science at University of Freiburg-2013)
- Visiting Scholar at Harvard University (2005-6), University of Zaragoza (2013), EHESS (School of Advanced Studies in the Social Sciences, Paris-2018)
- Editorial Board Member of MDPI open access journals - *Remote Sensing* (Impact Factor: 4.1) - Forest Remote Sensing section and *Land* (Impact Factor: 3.2) - Land Systems and Global Change section
- Remote sensing-forestry research led to Vegetation Canopy LiDAR (VCL) and the NASA GEDI (Global Ecosystem Dynamics Investigation) missions; GEDI LiDAR sensor launched from NASA KSC in 2018 and is currently operating onboard the International Space Station
- Archaeological/LiDAR research depicted in Douglas Preston’s 2017 New York Times #1 bestselling non-fiction book, *Lost City of the Monkey God* and 2022 PBS NOVA “LIDAR Uncovers a Maya Metropolis”
- Sea turtle/global change research described by Carl Safina (MacArthur Award winner) in 2006 *Voyage of the Turtle: In Pursuit of the Earth’s Last Dinosaur*

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**Professional Appointments**


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- 7/24 - present Interim **Dean**, College of Graduate Studies UCF  
 8/15 - 7/24 **Senior** (since 3/17) **Associate Dean & Director of Interdisciplinary Studies**, College of Graduate Studies, UCF
- 5/06 - present **Professor**, Department of Biology, UCF; **Associate** (5/00-5/06); **Assistant** (8/95-5/00)  
 6/19 - 6/21 **NSF Program Officer** - Directorate of STEM Education (EDU), Division of Graduate Education (DGE), Alexandria, VA, program lead for Innovations in Graduate Education (IGE), NSF Research Traineeship (NRT), and Integrative Graduate Education and Research Traineeship (IGERT) programs
- 8/18 - present **Global Economic and Environmental Opportunity (GEEO) Fellow**, UCF  
 6/18 - 7/18 **Visiting Scholar**, School for Advanced Studies in the Social Sciences (EHESS), Paris, France  
 8/17 - present **Researcher** with UCF National Center for Integrated Coastal Research  
 7/17 - present **Collaborator** with LSU Center for Coastal Resiliency, Baton Rouge, LA  
 1/17 - present **Editorial Board** member for the journal *Land* (Land Systems and Global Change section)  
 1/15 - present **Editorial Board** member for the journal *Remote Sensing* (Forest Remote Sensing section)  
 1/14 - present **Affiliate Member**, Florida Climate Institute, Gainesville, FL  
 1/13 - 7/13 **Fulbright Senior Scholar**, Chair of Remote Sensing and Landscape Information Systems (FELIS) Albert-Ludwigs-Universität Freiburg, Freiburg, Germany  
 8/11 - 8/12 **Provost's Fellow**, Academic Affairs, UCF (w/ Tony Waldrop, president Univ. S. Alabama d.)  
 2/06 - 7/06 **Fulbright Distinguished Research Chair**, Department of Geography, Simon Fraser University (SFU), Burnaby, British Columbia  
 8/05 - 2/06 **Charles Bullard Fellow**, Harvard University, Harvard Forest LTER, Petersham, MA  
 5/05 - 8/05 **Interdisciplinary & International Studies Summer Fellow**, Academic Affairs, UCF (w/ Diane Chase, now Provost at University of Houston)  
 8/00 - 8/05 **Graduate Program Director**, Department of Biology, UCF (also interim 1/08-6/08)  
 8/01 - 8/04 **Chair, UCF Environmental Management Systems Committee**, UCF  
 8/96 - 7/24 **Director** of the UCF Geospatial Analysis & Modeling of Ecological Systems (GAMES) Lab  
 12/93 - 8/95 **National Research Council (NRC) Research Associate**, NASA Biospheric Sciences Branch, Goddard Space Flight Center, Greenbelt, MD

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**Academic Preparation**


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- 1994 **Ph.D.** **Environmental Sciences (Ecology Track)**, The Graduate School of Arts and Sciences, University of Virginia, Charlottesville, VA
- 1990 **M.S.** **Environmental Sciences**, University of Virginia, The Graduate School of Arts and Sciences, Charlottesville, VA
- 1985 **B.S.** **Biology**, Trinity College of Arts & Sciences, Duke University, Durham, NC. Graduated magna cum laude with honors and studied abroad at Darwin College, University of Kent, Canterbury, England.

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**Instruction/Mentoring-Related Activities**


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**Courses Taught:**

**Biology and Environment** (BSC 1050) which has evolved into **Introduction to Environmental Science** (EVS 1001) - Large, non-majors course that fulfills the science requirements of the Florida General Education Program. It is an introduction to environmental studies that stresses a scientific approach toward understanding the nature and scope of contemporary problems in relation to natural systems and addresses potential solutions.

**Current Topics in Ecology** (PCB 6930) - Graduate seminar has covered a variety of topics such as the application of GIS, multivariate analysis, and spatial statistics in ecology, or simply to discuss a current book on an ecological topic of interest, e.g., the causes/ecological effects of sea level rise, simulation modeling using R.

**Global Environmental Change** (ISC 3930H) - Interdisciplinary honors course that deals with issues relating to physical, chemical and biological cycles that contribute to global change. Students use GIS and modeling to study the recent, explosive growth of the human population and its institutions and their consequences on the sustainability of land, air, water, and biological resources.

**Landscape Ecology (PCB 6328C)** - Field and computer lab graduate course that uses applied and theoretical approaches to illustrate how spatial heterogeneity influences ecological processes. Topics emphasize quantitative methods (GIS, remote sensing, spatial statistics, and simulations) to characterize landscape pattern and dynamics, and conservation implications of these on population, community, and ecosystem processes.

**Management of Forest Ecosystems (EVSC 430, UVa)** - Taught the lab portion of this undergraduate course emphasizing the interactions between the physiological processes of plants and system-level functions such as nutrient cycling and the flow of energy and water and how these processes are affected management decisions.

**Models in Ecology (PCB 5485)** - Survey course available to upper-level undergraduate and graduate students about how simulation models are applied to ecological questions of both a theoretical and applied nature covering the basics of systems analysis and more recent developments. Modeling concepts (e.g., model formulation, model sensitivity, model testing) are described followed by examples from the literature.

**Plant Geography and Ecology (BOT 5623C)** - Field course available to upper-level undergraduates and graduate students; provides students with a basic understanding of how and why terrestrial plants are distributed at local, landscape, and global scales.

**Principles of Ecology (PCB 3044)** - Core undergraduate biology course whose objectives are for students to: understand the basic principles and unifying concepts of ecology as a cornerstone of biology; apply the theoretical concepts of ecology and the experimental evidence supporting them; become familiar with the scientific method as applied to ecological studies; and to gain an appreciation of ecology as a science and its role in understanding the man-nature interaction. There is a 1-credit hour field and computer lab associated with this course.

**Ways of Knowing (IDS 6308)** - Core graduate class for the Interdisciplinary Studies MA/MS program. Introduces the various approaches (e.g., sense perception, reason, intuition) that humans use to understand their world. It reviews the rise of interdisciplinary education and research in academia.

#### **Provided Guest Lectures for:**

Advanced Hydrology (CWR 6102), Biodiversity (BSC 2011), Biology Seminar (BSC 6938), Digital Media (CAP 4020), Environmental Anthropology (ANT 4051), Environmental Ethics (PHI 3640), Environmentalism and Island Nations (IDH 3933H), Foundations of Environmental Studies (IDS 3150), GIS+ (Freiburg), Burnett College Honors Symposium, Hospitality Physical Plant Management (HFT 3313), International Environmental Law (INR 4351), Research Seminar in Hospitality and Tourism (HFT 7588), Restaurant Management (HFT 3261), Spatial Information Systems & Eco-Informatics (Freiburg); Multiple social/environmental science graduate courses (EHSS, Paris).

#### **Teaching Awards:**

2000, 2005 & 2011 - UCF Teaching Incentive Program Award (\$5,000 added to base salary)  
 2010 - UCF College of Sciences Excellence in Undergraduate Teaching Award (\$2,000)  
 2007 - UCF Undergraduate Teaching Equipment Award "Enhancing Aquatic Ecology" (\$17,000)  
 2005 - UCF Excellence in Graduate Teaching Award (\$2,000)  
 2005 - UCF College of Arts and Sciences Excellence in Graduate Teaching Award (\$2,000)  
 2004 - UCF Undergraduate Equipment Award "A Pontoon Boat to Support Aquatic Field Labs" (\$16,715)  
 2001 - UCF College of Arts and Sciences Excellence in Graduate Teaching Award (\$2,000)  
 2001 - Distinguished Service Award - Lake Highlands Preparatory School, Orlando, FL  
 1999 - UCF Distributed Learning Web-course Development grant to convert the Models in Ecology course to web-based instruction (\$5000)  
 1997 - UCF College of Arts and Sciences Dean's Initiative Award - A Web-based Plant Identification Module for the UCF Campus (\$745)  
 1996 - UCF College of Arts and Sciences Dean's Initiative Award - Integrating Instructional Technology with a Course on Ecological Simulation (\$4,769)  
 1990 - Outstanding Graduate Teaching Assistant in the Univ. Virginia Dept. of Environmental Sciences

#### **Workshops Organized/Directed:**

2025 - "Making a Case for Graduate Education" Council of Graduate Schools Conference, Washington, DC  
 2023 - "Holistic Admissions for Graduate Programs and REUs" UCF, Orlando, FL  
 2023 - "Culturally Aware/Responsive Mentoring" UCF, Orlando, FL

- 2021 - "New Faculty Workshop: Intro to Federal Agencies: NSF" for UCF Office of Research  
 2021 - "Shaping 21<sup>st</sup> Century STEM Graduate Education" >80 academic institutions attending virtually  
 2017 & 2018 - "Mentoring for Success" for UCF Faculty Excellence Leadership Series, Orlando, FL  
 2017 - "Innovative Graduate Education" for STEM Education Research Workshop, UCF, Orlando, FL  
 2015 - "STEM versus non-STEM" for UCF Faculty Center for Teaching and Learning (FCTL)  
 2013 - "LiDAR for Maya Archaeological Prospection" Western Belize Maya working group. UCF  
 2013 - "Using FUSION for Forestry, Ecology, and Basic LiDAR Applications" University of Zaragoza, Zaragoza, Spain, a 4-day course for their Master's in Geographic Information Technologies

### **Postdoctoral Scholars Sponsored/Mentored:**

- 2019-20 Marie Harton** – Current Position: Program Director, NIH Division of Training and Workforce Development (mentored with Laura Regassa while Marie was an AAAS Science & Technology Policy Fellow at NSF)
- 2018-20 Marta Lyons** – Current Position: Climate Adaptation Service Scientist at U.S. Geological Survey (USGS), Minneapolis, MN (mentored with Betsy von Holle, NSF)
- 2005-06 Jason Drake** – Current positions: Forest Ecologist, US Forest Service, Tallahassee, Affiliated instructor with Florida Agricultural & Mechanical University
- 2003-05 Kyle Burks** - Current Position: President & Chief Executive Officer, Wilder Institute/Calgary Zoo (postdoc affiliated with Disney Animal Kingdom, Jill Mellen)
- 2002-04 Joseph Barber** - Current Position: Graduate Career Initiatives, University of Pennsylvania (postdoc affiliated with Disney Animal Kingdom, Anne Savage)
- 2000-02 Morten Klamer** - Current Position: Head of Technical, Koppers Performance Chemicals Europe, Nyborg, Denmark (postdoc affiliated with NASA Kennedy Space Center, Jay Garland)

### **Graduate Students Mentored:**

#### **As Chair or Co-Chair of Ph.D. Dissertation Committee [Advised 8, graduated 5]**

- 2022 Stephanie Garvis** – "Modeling benthic habitats impacted by sea level rise and climate change." Recipient of Aylesworth Scholarship from Florida Sea Grant and Boyd Lyon Scholarship; Senior GIS Analyst, Altamont Springs, FL (withdrew).
- 2014 Simona Ceriani** – "Sea turtle migration/foraging patterns determined with isoscapes and satellites." Current Position: Marine Turtle Senior Scientist, Fish and Wildlife Research Institute, Florida Fish and Wildlife Conservation Commission, St. Petersburg, FL. (Co-Advised with Llewellyn Ehrhart)
- Michael Gilbrook** – "Using land cover mapping and landscape metrics to evaluate effects of urban development of ecological integrity in Florida." Current Position: Geospatial Instructor, UCF, Orlando, FL.
- 2012 Stephen Medeiros** – "Incorporating remotely sensed data into coastal hydrodynamic models: parameterization of surface roughness and spatio-temporal validation of inundated area." Current Position: Assistant Professor, Civil Engineering, Embry-Riddle University. (Civil Engineering student co-advised with Scott Hagen)
- 2012 James Angelo** – "Modeling effects of sea level rise on coastal wetlands" (transferred to UCF Mathematics program). Current Position: Senior R&D Scientist, Sensor Exploitation Applications Department, Sandia National Laboratories, Albuquerque, NM.
- 2011 Claudia Listopad** – "Applications of airborne and portable LiDAR in the structural determination, management, and conservation of Southeastern pine forests." Current Positions: Owner of Applied Ecology, Inc., Indialantic, FL; Doherty Visiting Professor - Florida Institute of Technology, Melbourne, FL
- 2009 Brean Duncan** – "Native fire regime as a reference for establishing management practices. Last known position: GIS/Remote Sensing Analyst, InoMedic Health Applications, NASA Kennedy Space Center.
- 2007 Amanda Cooper** – "Detecting changes in vertical canopy structure of tropical rainforests using LiDAR" Current Position: Spatial Information Scientist, Kew Gardens, London, UK. Recipient of NASA Earth Science Fellowship (withdrew from program).

**As Chair or Co-Chair of M.S. Thesis Committee [Advised 36, graduated 30]**

- 2021 Sarah Parker** – “Change Detection of Hydrologically Restored Subtropical Wetlands.” UCF RaMP (Research and Mentoring Program) Fellowship recipient. Climate Fellow, United States Department of Agriculture, Foreign Agricultural Service, Washington, DC
- 2016 Christine Butterfield (Swanson)** – “Flying under the LiDAR: Relating forest structure to bat community diversity.” Recipient of UCF Learning Institute for Elders (LIFE) Award. Current Position: Science Analyst, National Science Foundation, Alexandria, VA
- 2015 Joshua Castro** – “Modeling intraguild predation and facilitation on shared prey.” Environmental Specialist, Orange County Environmental Protection Division, Orlando, FL  
**Lavinia Cheng** – Effects of satellite-derived artificial night light on sea turtle nesting behaviors. (withdrew after six semesters). Finished MS degree at Arizona State University.
- 2014 Alexis Maldonado** – “A LiDAR evaluation of 3-dimensional patterns of an invasive climbing plant. Current Position: Environmental Scientist w Kleinfelder Southeast, Inc. Mt. Dora, FL
- 2013 Christopher Long** – “Indirect benefits and the maintenance of polyandry in the Florida Green Turtle.” Current Position: Assistant Scientist, NOAA, University of Miami. (Co-Advised with Llewellyn Ehrhart)  
**Cheryl Sanchez** – “Evaluating sex ratios of juvenile green turtles (*Chelonia mydas*) in different developmental habitats along the east coast of Florida.” Current Position: Volunteer Coordinator: Global Vision International (GVI) – Seychelles. (Co-Advised with Llewellyn Ehrhart)  
**Andrew Sterner** – “Modeling survival of immature loggerhead and green turtles from 10 years of mark-recapture data.” Current Position: Aquarist, SeaWorld Orlando. (Co-Advised with Llewellyn Ehrhart)
- 2012 Allison Hays** – “Determining the impacts of beach restoration on loggerhead (*Caretta caretta*) and green turtle (*Chelonia mydas*) nesting patterns and reproductive success along Florida’s Atlantic coast.” Current Position: Federal Science Partners, Washington, DC. (Co-Advised with Llewellyn Ehrhart)  
**Jessica Hightower** – “Relating ancient Maya land use legacies to the contemporary forest of Caracol, Belize.” Current Position: Postdoctoral Research Scholar, Oregon State University.
- 2011 Troy Seiler** – “Modeling carbon allocation, growth and recovery in scrub oaks experiencing aboveground disturbance.” Current Position: Applied Sciences Branch Chief, Air Force Technical Applications Center (AFTAC) Environmental Modeling and Simulation, Patrick Air Force Base, FL.
- 2010 James Angelo** – “Characterizing the vertical structure and diversity of Florida oak scrub vegetation using discrete-return lidar.” Current Position: Senior R&D Scientist, Sensor Exploitation Applications Department, Sandia National Laboratories, Albuquerque, NM.  
**Tonya Long (Speight)** – “An assessment of sea turtle nesting behavior in relation to hurricane- and restoration-induced beach morphodynamics.” Current Position: Biologist – East Coast Sea Turtle Stranding Coordinator, Florida Fish and Wildlife Conservation Commission, West Palm Beach, FL
- 2008 Lori Jones** – “Modeling canopy photosynthesis of a scrub-oak ecosystem under elevated CO<sub>2</sub>.” Current position: Project Manager, NASA Kennedy Space Center, FL  
**Sue Leitholf** – “Assessing and modeling mangrove forest dynamics along the temperate-subtropical ecotone in eastern Florida.” Current Position: Environmental Specialist, Rookery Bay National Estuarine Research Reserve, Naples, FL
- 2007 Brian Rodenbeck** – “Spatiotemporal variation of avian populations within geographically isolated freshwater marshes.” Current Position: Environmental Services, Walt Disney, Lake Buena Vista, FL.  
**Monica Ross** – “Seasonal and diel patterns of manatee habitat use.” Current Position: Behavioral Ecologist, Sea to Shore Alliance, St. Petersburg, FL.
- 2006 Neysa Martinez** – “Spatio-temporal patterns of dolphin strandings along the Florida coast” (went non-thesis) Current Position: AP Biology teacher, Hillsborough County Public Schools.
- 2005 Victoria Albarracín** – “Post-fire microbial dynamics in Florida scrub soils.” Ph.D. Department of Land, Air and Water Resources, University of California, Davis. Research Associate, USDA North Carolina State.

- 2004 Laura Hannan (Plog)** – “Sea turtle nesting nutrient inputs to dune vegetation: a stable isotope analysis.”  
Current Position: AP Biology Teacher, Volusia County, FL.  
**Jonathan Seiler** – “Land use effects on water quality of central Florida lakes.” Current Position: Instructor, St. Petersburg College, St. Petersburg, FL. (Co-Chair with John Osborne)
- 2003 Lee Anne Kirkpatrick** – “Quantifying structure in volumetric neutral landscapes.” (Interdisciplinary Studies) Current Position: Director, College of Sciences Academic Support (COSAS), UCF, Orlando, FL.
- 2002 Charles Cowden** – “Discrimination of tropical rainforest classes using lidar return profiles.” Ph.D. Department of Botany, University of Georgia. Current Position: Manager, Global Field Research and Product Development, Valent BioSciences, Libertyville, Illinois.  
**Matt Love** – “Spatiotemporal heterogeneity of seagrass beds in the Northern Indian River Lagoon.” Current Position: Restoration Ecologist, Gulf Coast Ecosystem Restoration Council, Fairhope, Alabama
- 2001 Adam Brookbank** – “Structural patterns of tropical rainforest profiles: a comparison of edges and interiors.” Current Position: Director of Field Operation, USDA-Plant Protection and Quarantine Group, Raleigh, NC.  
**Jason Godin** – “Analysis and simulation of 3-dimensional forest structure at Barro Colorado Island, Panama.” Current Position: Senior Environmental Scientist, South Florida Water Management District, West Palm Beach, FL.  
**Walt Hite** – “Mammal, reptile, and amphibian distribution in an impounded salt marsh landscape.” Current Position: Instructor, Nashville State Community College, Nashville, TN.
- 2000 Carrie Yoder** – “Spatial variation of tropical forest structure in relation to remotely sensed laser waveforms.” Biology Ph.D. Candidate, Louisiana State Univ. (d. 2003).  
**Jennifer Judkins** – Project undefined, related to invasion of microbial communities (withdrew from program after two semesters). Technology Integration Specialist, Lynnfield Public School District, MA.
- 1999 Jeffry Boutet** – “Spatial canopy patterns of pre- and post- hurricane disturbance.” Current Position: Technical Manager, Department of Veterans Affairs, Charlottesville, VA.  
**George Husk** – “Spatio-temporal dynamics of Spanish moss biogeochemistry.” Current Position: Federal Government Employee, Philadelphia, PA.  
**Jon Sloan** – Undefined project (withdrew after three semesters). Current Position: Sr. Environmental Program Manager at Port of Seattle, WA.
- 1998 Jason Drake** – “Characterizing and modeling spatial patterns of a longleaf pine savanna.” Ph.D. Department of Geography, University of Maryland. Current Position: USDA Forest Service, Tallahassee, FL  
**Melissa Hensley** – Undefined project (withdrew after two semesters).  
**Don Spence** – “Change of maritime hammock flora in central FL after 20 years.” Ph.D. Department of Plant Pathology, University of Florida, Gainesville, FL. Current Position: Assistant Professor, Flagler College. (Co-Advised with Walter Taylor)

**As Ph.D. Dissertation Committee Member [Advised 27 (2 current), graduated 21]**

- Current Landon Myers** – “Orca feeding movements subject to acoustic disturbance (Graham Worthy – chair)  
**Alessandra Pandolfi** – “How insect communities respond to urbanization (Patrick Bohlen – chair)
- 2024 Alexander Sacco** – “Multi-Scale Assessment of Oceanic Sargassum Habitat for Sea Turtle ‘Lost Years’ (Kate Mansfield – chair)
- 2023 Ian Biazzo** – “Anuran responses to prescribed fire in Central Florida flatwood-marsh complexes (Pedro Quintana-Ascencio – chair)  
**Kevin Guilfoyle** – “Refining stable isotope analysis to detect wildlife laundering” (John Fauth – chair)
- 2020 Elizabeth Becker** – “Assessing the Impact of Land Use, Land Use Change, and Land Management on the Carbon Flux Dynamic of a Subtropical Landscape” (Charles Hinkle – chair; withdrew)  
**Daniel Goodding** – “Identifying sources of coral reef stress: correlations between a Coral Stress Index and the FoRAM Index off southeast Florida” (Pedro Quintana-Ascencio – chair; withdrew)

- 2019 Camila Alvarez** – “The feminine margin: the reimagining of one professor’s rhetorical pedagogy” (Martha Brenckle – chair, Texts & Technology)  
**Madison Hall** – “The seascape and the sirenian niche: connecting environmental data, spatial genetic analysis, and ecological niche modeling of the threatened manatee (*Trichechus manatus*)” (Graham Worthy – chair)
- 2017 Molly Grace** – “Understanding and mitigating the effects of roads on wildlife: Animal behavior and accident prevention” (Reed Noss – chair)  
**Milad Hooshyar** – “Enhancing topographic input data for water resources modeling: River network extraction and bathymetry estimation” [Stephen Medeiros & Dingbao Wang (Civil, Environmental, and Construction Engineering) – co-chairs]
- 2016 Lina Maria Sanchez** – “Ecological traps: Modeling habitat selection in heterogeneous landscapes” (Pedro Quintana-Ascencio – chair)  
**Karim Alizad** – “An integrated, two dimensional Hydro-Marsh model and its application in fluvial, marine, and mixed estuarine systems” [Scott Hagen (Civil, Environmental, and Construction Engineering) – chair]  
**Courtney Knickerbocker** – “The effects of regulatory management and coastal change on urbanized mangrove forests in a low amplitude tidal lagoon” (Reed Noss – chair) (withdrew)
- 2015 Davina Passeri** – “Tidal hydrodynamic response to sea level rise and related morphological changes in fluvial, marine, and mixed estuary systems [Scott Hagen (Civil, Environmental, and Construction Engineering) – chair]
- 2014 Melinda Donnelly** – “Effects of biotic interactions on coastal wetland communities with applications for restoration” (Linda Walters – chair)  
**Steven Shippee** – “Movements, fishery interactions, and unusual mortalities of bottlenose dolphins” (Graham Worthy – chair)  
**Joshua Solomon** (Linda Walters – chair) reverted back to Master’s program.
- 2013 H. Peder Hägglund** – “A sustainability "green" certification audit of foodservice operations and the development of a restaurant sustainability instrument” [Dana Tesone (Rosen College of Hospitality Management) – chair]  
**Marianne Korosy** – “Estimated diets, diet overlap, and winter habitat associations of four grassland sparrows in florida dry prairie” (Reed Noss – chair) (replaced as committee member)
- 2012 Ashley Bies** – undetermined (Reed Noss - chair) (withdrew)  
**Adam Campbell** – incomplete [Annie Wu (Computer Science) – chair] (withdrew)  
**Edem Ekpe** – “Livelihoods support programs, conservation attitudes, and tropical forest biodiversity : an evaluation of biocomplexity in southeastern Ghana” (Ross Hinkle – chair)  
**Ikiensinma Gogo-Abite** – “Effluent water quality improvement using silt fences and stormwater harvesting” [Manoj Chopra (Civil, Environmental, and Construction Engineering) – chair]  
**Haakon Kalkvik** – “Conservation and population biology: genetics, demography and habitat requirements of the Atlantic coast beach mice” (Christopher Parkinson & I. Jack Stout –co-chairs)  
**Leesa Souto** – “Landscaping perceptions and behaviors: socio-ecological drivers of nitrogen in the residential landscape” (Ross Hinkle – chair)
- 2009 David Breininger** - Landcover change and population dynamics of Florida scrub-jays and Florida grasshopper sparrows (Reed Noss – chair)  
**Aviv Etya** – “Integrated multitemporal and multiangular high spatial resolution image classification” [Arthur Roberts (Geography – Simon Fraser University) – chair]  
**Elizabeth Boughton** – “Understanding plant community composition in agricultural wetlands: context dependent effects and plant interactions” (Pedro Quintana-Ascencio – chair)
- 2001 Donna A. Szpyrka** – “Exploration of instruction, assessment, and equity in the middle school science classroom” [Marcella Kysilka (Education) – chair]

**As M.S. Thesis Committee Member [Advised 69, graduated 62]**

- 2024 Emily Suchonic** – “Examining climate change impacts and shifting mangrove coverage on oyster acreage in Mosquito Lagoon” (Linda Walters – chair)
- 2015 Kendra Cope** – “Economic impact of marine turtle based eco-tourism” (Kate Mansfield – chair)  
**Joshua Solomon** – “Identifying inundation-driven effects among intertidal *Cassostrea virginica* in a commercially important Gulf of Mexico estuary (Linda Walters – chair)
- 2013 Kirsten Martin** – “Disturbance-based management and plant species change in Massachusetts sandplain heathlands over the past two decades” (Betsy Von Holle – chair)  
**Monette Schwoerer** – “Relating climate change to the nesting phenology and nest environment of marine turtles” (Betsy Von Holle – chair)
- 2012 Katie DiSalvo** – undetermined (Graham Worthy – chair) (withdrew)  
**Stephanie Garvis** – “Quantifying the impacts of oyster reef restoration on oyster coverage, wave dissipation and seagrass recruitment in Mosquito Lagoon, Florida” (Linda Walters – chair)  
**Daina Smar** – “An assessment of ecological processes in the Apalachicola estuarine system, Florida” [Scott Hagen (Civil, Environmental, and Construction Engineering) – chair]
- 2011 Elizabeth Becker** – “Variability of carbon stock in Florida flatwoods ecosystems undergoing restoration and management” (Ross Hinkle – chair)  
**Day McClanahan** – undetermined (John Fauth – chair) (became a non-thesis student)
- 2010 Jennifer Navarra** – “Species composition and spatiotemporal pattern of the seed bank and vegetation in native and degraded Florida rosemary scrub” (Pedro Quintana-Ascencio – chair)
- 2009 Casey Gillespie** (I. Jack Stout – chair) (withdrew)  
**Terry Williamson** (Llewellyn Ehrhart – chair) (went the non-thesis option)
- 2008 Kelly Borrowman** – “Prevalence and severity of fibropapillomatosis in juvenile green turtles (*Chelonia mydas*) in three habitats on Florida's east coast” (Llewellyn Ehrhart & John Fauth – co-chairs)  
**Gloria Eby** – “TMDL bioassessment sampling of benthic macroinvertebrates for Lake Jesup and Lake Seminary” (John Osborne – chair)  
**Danielle Munim** – “The distribution, abundance, and habitat use of the Big Cypress fox squirrel, (*Sciurus niger avicennia*)” (Jane Waterman & Reed Noss – co-chairs)
- 2007 Christy Alves** – “Stable isotope turnover rates and diet-tissue discrimination in the skin of West Indian manatees: implications for evaluating their feeding ecology and habitat use” (Graham Worthy – chair)  
**Alaina Bernard** – “Effects of isolation on metapopulation dynamics in small-world networks” (David Jenkins – chair)  
**Megan Keserauskis** – “Trophic status of a small mammal assemblage on Cape Canaveral Air Force Station with an emphasis on *Peromyscus polionotus niveiventris* (southeastern beach mouse) (I. Jack Stout – chair)  
**Casey Lyon** – “Demographic consequences of managing for Florida scrub-jays (*Aphelocoma coerulescens*) on an isolated preserve” (Reed Noss – chair)  
**Amber Reece** – undetermined (Jane Waterman – chair) (transferred to Education)
- 2006 Melinda Donnelly** – “Is the exotic Brazilian pepper, *Schinus terebinthifolius*, a threat to mangrove ecosystems in Florida?” (Linda Walters – chair)  
**Christian Glardon** – “Predicting risks of invasion of *Caulerpa* species in Florida” (Linda Walters – chair)  
**Terina Nusinov** – “Limnological and landscape factors affecting use of manufactured ponds by the invasive Cuban treefrog (*Osteopilus septentrionalis*)” (John Fauth – chair)  
**Debra Rinne** – “Testing the peninsula effect : does it affect freshwater crustaceans inhabiting ephemeral wetlands on Florida's ridges?” (David Jenkins – chair)  
**Jessie Wheeler** – undetermined (John Osborne – chair) (became non-thesis)
- 2005 Jason DePue** – “Responses of the Florida mouse (*Peromyscus floridanus*) to habitat management” (Walter Taylor & I. Jack Stout - co-chairs)

- Nathalie Greenwald** – “A theoretical approach to assessing annual energy balance in gray whales (*Eschrichtius robustus*)” (Graham Worthy – chair)
- Krisann Kosel** – “Site preparation methods for restoration of non-native pasturelands to native upland habitat” (I. Jack Stout – chair)
- Joshua Reece** – “Historical responses of marine turtles to global climate change and juvenile loggerhead recruitment in Florida” (Llewellyn Ehrhart & Christopher Parkinson - co-chairs)
- 2004 Lynette Bouchie** – “Ovulation in the cape ground squirrel (*Xerus inauris*)” (Jane Waterman – chair)
- Keith Clanton** - Rodent population dynamics and habitat use in an abandoned agricultural field (I. Jack Stout – chair)
- Julie Liss** – “The ecology of drift algae in the Indian River Lagoon, Florida” (Linda Walters – chair)
- Ann Marie Maharaj** – “A comparative study of the nesting ecology of the leatherback turtle *Dermochelys coriacea* in Florida and Trinidad” (Llewellyn Ehrhart – chair)
- Ryan Clerico** – undetermined (I. Jack Stout - chair) (withdrew from program)
- Ryan Nicolitz** – “The effects of lake water quality on housing prices” [Walter Milon (Economics) – chair] (withdrew)
- Nicole Robinson** – “Interactions between the nudibranch *Okenia zoobotryon* and its bryozoan prey *Zoobotryon verticillatum*” (Linda Walters – chair)
- Lisa Wall** – “Recruitment and restoration of the oyster *Crassostrea virginica* in areas with intense boating activity in Mosquito Lagoon, Florida” (Linda Walters – chair)
- 2003 Leslie Backus** – “The home range and response of gopher tortoises in Central Florida to habitat manipulation by prescribed burning” (I. Jack Stout – chair)
- Kimberly Colstad** – “Anuran tadpole assemblages in natural and man-made wetlands in east-central Florida” (I. Jack Stout – Chair)
- Sharon Kane** – “Historical and current distributions and population status of *Lupinus aridorum*” (I. Jack Stout – chair)
- Stacy Kubis** – “Growth rates of juvenile green turtles, *Chelonia mydas*, from three developmental habitats along the east central coast of Florida” (Llewellyn Ehrhart – chair)
- Earl Lundy** – “Habitat use by largemouth bass (*Micropterus salmoides*), bluegill (*Lepomis macrochirus*), and redear sunfish (*Lepomis microlophus*) in two Central Florida lakes” (Franklin Snelson – chair)
- Cynthia Scofield** – “The modeling of plant growth and cellular layers using Lindenmayer systems and multifractals” [Ram Mohopatra (Mathematics) – chair]
- Matthew Seguin** – undetermined (Franklin Snelson – chair) (became non-thesis)
- 2002 Dawn Boles** – “HIV: Proteases and Protease Inhibitors” (non-thesis, co-advised with Karl Chai – Biomedical Sciences)
- Troy Camarata** – “Identification of transposon-tagged genes associated with stubble-stubbloid function during leg morphogenesis in *Drosophila melanogaster*” (Laurence von Kalm – chair)
- Timothy Mallow** – “Ecology of the bobcat in the Mallory Swamp” (I. Jack Stout – chair)
- Ali Rabatsky** – “Caudal luring and defensive tail display in the dusky pigmy rattlesnake, *Sistrurus miliarius babori*, with comments on ontogeny and evolution” (I. Jack Stout & Jane Waterman – co-chairs)
- 2001 Craig W. Aubrey** – “Sharks of the inshore coastal Atlantic waters of Brevard County, Florida, with emphasis on the spinner shark, *Carcharhinus brevipinna*” (Franklin Snelson – chair)
- Susan Gosselin** – “Reproductive success of wood storks (*Mycteria americana*) in the Kissimmee river basin in 1998 and 1999” (Walter Taylor – chair)
- Shigetomo Hirama** – “Epizootiology of fibropapillomatosis in green turtle on the Atlantic coast of Florida” (Llewellyn Ehrhart – chair)
- Karen Osegovic** – “Hatching success, embryonic mortality, and infertility in loggerhead (*Caretta caretta*) and green (*Chelonia mydas*) sea turtles nesting in Brevard County, Florida” (Llewellyn Ehrhart – chair)

**Arte Roman** – “Spatial and temporal analysis of the growth dynamics of the ascidian *Perophora viridis*” (Linda Walters – chair)

**Deborah Shelley** – “An investigation of fish assemblages inhabiting the Halifax and lower Tomoka Rivers, Volusia County, Florida” (John Osborne – chair)

**2000 Boyd Blihovde** – “Terrestrial Behavior of the Florida gopher frog (*Rana capito aesopus*)” (Llewellyn Ehrhart – chair)

**Pam Bowen** – “Demographic, distribution, and metapopulation analyses of the burrowing owl (*Athene cunicularia*) in Florida” (Walter Taylor – chair)

**Jaren Johnston** – “Automatic construction and occlusion sensitive selection of level-of-detail models for procedurally modeled plants” (Michael Moshell (Computer Science) – chair)

**Donna Oddy** – “Population estimate and demography of the southeastern beach mouse (*Peromyscus polionotus niveiventris*) on Cape Canaveral Air Force Station, Florida” (I. Jack Stout – chair)

**Michael Petrovich** – “Song variation in the Eastern Towhee of central Florida” (Walter Taylor – chair)

**1999 Dameron Black** – “Restoration of Clasping Warea (*Warea amplexifolia*): plant response to habitat enhancement and to reintroduction” (I. Jack Stout – chair)

**Kathryn Buchanan** – “Restoration of sandhill vegetation on abandoned agricultural land” (I.J. Stout – chair)

**Jodi Doster** – “Analysis of reproductive and spatial nesting patterns of a wading bird colony at Gatorland, Orange County, Florida” (Walter Taylor – chair)

**Horace Lee Vines** – “Vegetation dynamics associated with wetland restoration at the Disney Wilderness Preserve, Kissimmee, FL” (Henry Whittier – chair)

**1998 M. Shane Belson** – “Red-headed woodpecker (*Melanerpes erythrocephalus*) use of habitat at Wekiwa Springs State Park, Florida” (Walter Taylor – chair)

**Maureen Leonard** – “The Florida scrub-jay at the Disney Wilderness Preserve” (I. Jack Stout – chair)

**Christopher Nordstrom** – “The life history and ecology of the introduced African jewel cichlid, *Hemichromis letourneauxi* (family: cichlidae), in Dade County, Florida” (Franklin Snelson – chair)

**Kelli Reed** – “Status of the gopher tortoise, *Gopherus polyphemus*, at the Disney Wilderness Preserve” (I. Jack Stout – chair)

**1996 Andrew F. Kittsley** – “Ecophysiological comparison of live and laurel oaks in both an urban and a suburban microclimate” (Haven Sweet – chair)

**2000-05 & 08** As Graduate Program Director for the Department of Biology, I annually advised between 5 and 23, non-thesis master’s students and between 5 and 18 Conservation Biology Certificate Students.

**2015-24** As Interdisciplinary Studies (IDS) Program Director, I managed a program for  $\approx 70$  MA/MS students.

## Research-Related Activities

### Google Citation Report

Citation Indices	All	Since 2020
Citations	6357	2365
h-index	41	25
i10-index	67	44



Citations: 5,177  
Research Interest: 2,710  
Reads: 45,566; h-index: 38



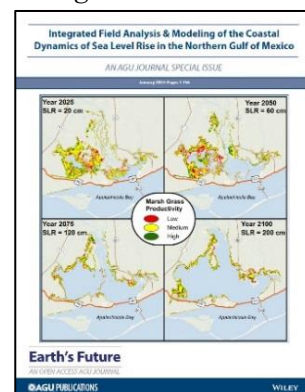
Citations: 3,330  
Average per item: 49.7  
h-index: 32

### **Guest Editor of Special Journal Issues**

- 2026 Special issue of *Land* - “Adaptive Management of Coastal Landscapes” with D. Trogu and M. Ferentinou  
 2022 Special issue of *Remote Sensing* entitled "Remote Sensing Applications for Sea Turtle Conservation” with S. Ceriani and M. Fuentes.

### **Peer-Reviewed Journal Publications** (66 published, students underlined):

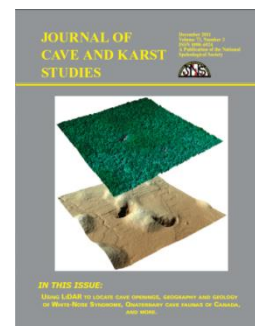
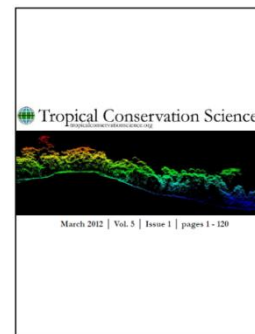
- 70) Myers, S. L., G. A. J. Worthy, D. G. Jenkins, J. F. Weishampel, J. Nabe-Nielsen, Sound and Fury Signifying Everything: An Agent-Based Model Quantifying the Effects of Noise on Orca Foraging. In preparation for *Ecological Modelling*.
- 69) Ross, M., N. Bartlett, A. Weishampel, J. F. Weishampel. Effectiveness of Physical Barriers to Deter Manatee Use of Suboptimal Industrial Warm Water Sites. In preparation for *J. Appl. Ecol.*
- 68) Hightower, J. N. and J. F. Weishampel. Ancient Maya land uses impacts on contemporary tree species composition at Caracol, Belize. In preparation for *Biotropica*.
- 67) Swanson, C. and J. F. Weishampel. Flying under the LiDAR: Relating forest structure to bat diversity. In preparation for *Remote Sensing*.
- 66) Lyons, M., B. Von Holle, J. Weishampel. 2022. Why do sea turtle nests fail? Modeling clutch loss across the southeastern United States. *Ecosphere* 13: e3999.
- 65) Garvis, S., M. Donnelly, E. Hernandez, L. Walters, J. Weishampel, and R. Brockmeyer. 2020. Remote sensing of live and dead intertidal oyster reefs using aerial photo interpretation in northeast Florida. *Journal of Coastal Conservation* 24:14.
- 64) Lyons, M., B. Von Holle, M. Caffrey, and J. Weishampel. 2020. Quantifying the impacts of future sea level rise on nesting sea turtles in the southeastern U.S. *Ecological Applications* 30:e02100.
- 63) Swanson, C., and J. F. Weishampel. 2019. Scaling lidar-derived rainforest canopy metrics across a Mesoamerican landscape. *International Journal of Remote Sensing*. 40: 9181-9207.
- 62) Von Holle, B., J. Irish, A. Spivy, J. Weishampel, A. Meylan, M. Godfrey, M. Dodd, S. Schweitzer, T. Keyes, F. Sanders, M. Bimbi, L. Ehrhart, and N. Taylor. 2019. The effects of future sea level rise on sea turtle, shorebird, and seabird habitat within the South Atlantic Bight. *Journal of Wildlife Management*.
- 61) Ceriani, S. A., J. F. Weishampel, L. M. Ehrhart, K. L. Mansfield, and M. B. Wunder. 2017. Foraging and recruitment hotspot dynamics for the largest loggerhead turtle Atlantic rookery. *Nature Scientific Reports* 7:16894.
- 60) Alizad, K., S. C. Hagen, J. T. Morris, S. C. Medeiros, M. V. Bilskie, and J. F. Weishampel. 2016. Coastal wetland response to sea level rise in a fluvial estuarine system. *Earth's Future*.
- 59) Huang, W., S. C. Hagen, D. Wang, P. A. Hovenga, F. Teng, and J. F. Weishampel. 2016. Suspended sediment projections in Apalachicola Bay in responses to altered river flow and sediment loads under climate change and sea level rise. *Earth's Future*.
- 58) Alizad, K., S. C. Hagen, J. T. Morris, P. Bacopoulos, M. V. Bilskie, J. F. Weishampel, and S. C. Medeiros. 2016. A coupled, two-dimensional hydrodynamic-marsh model with biological feedback. *Ecological Modelling*. 327: 29-43.
- 57) Chase, A. S. Z. and J. Weishampel. 2016. Using LiDAR and GIS to investigate water and soil management in the agricultural terracing at Caracol, Belize. *Advances in Archaeological Practice*. 4: 357-370.
- 56) Weishampel, Z.A., W. Cheng, and J. F. Weishampel. 2016. Sea turtle nesting patterns in Florida vis-à-vis satellite-derived measures of artificial lighting. *Remote Sensing in Ecology and Conservation*. 2: 59-72.
- 55) Ceriani, S. A., J. D. Roth, A. D. Tucker, D. R. Evans, D. S. Addison, C. R. Sasso, L. M. Ehrhart, and J. F. Weishampel. 2015. Carry-over effects and foraging ground dynamics of a major loggerhead breeding aggregation. *Marine Biology*. 162: 1955-1968.



- 54) Gilbrook, M. J. and J. F. Weishampel. 2015. A method for normalizing classified land cover imagery for use in change detection analysis. *Journal of the Urban and Regional Information Systems Association (URISA)*. 26: 5-24. (cover article).
- 53) Listopad, C. M., R. E. Masters, J. Drake, J. Weishampel and C. Branquinho. 2015. Structural diversity indices based on airborne LiDAR as ecological indicators for managing highly dynamic landscapes. *Ecological Indicators*. 57: 268-279.
- 52) Medeiros, S. C., S. C. Hagen, and J. F. Weishampel. 2015. A random forest model based on lidar and field measurements for parameterizing surface roughness in coastal modeling. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*. 8: 1582-1590.
- 51) Medeiros, S. C., S. C. Hagen, J. F. Weishampel, and J. Angelo. 2015. Adjusting lidar-derived digital terrain models in coastal marshes based on estimated above ground biomass density. *Remote Sensing*. 7: 3507-3525.
- 50) Ceriani, S.A., J. D. Roth, L. M. Ehrhart, P. F. Quintana-Ascencio, and J. F. Weishampel. 2014. Developing a common currency for stable isotope analyses of nesting marine turtles. *Marine Biology*. 161: 2257-2268.
- 49) Ceriani, S. A., J. D. Roth, C. Sasso, C. McClellan, M. James, H. L. Haas, R.J. Smolowitz, D. R. Evans, D. S. Addison, D. A. Bagley, L. M. Ehrhart, and J. F. Weishampel. 2014. Modeling and mapping isotopic patterns in the Northwest Atlantic Ocean derived from the loggerhead sea turtle. *Ecosphere*. 5: Article 122.
- 48) Chase, A. F., D. Z. Chase, J. J. Awe, J. F. Weishampel, G. Iannone, H. Moyes, J. Yaeger, and M. K. Brown. 2014. The use of LiDAR in understanding the ancient Maya landscape: Caracol and western Belize. *Advances in Archaeological Practice*. 2: 208-221.
- 47) Chase, A. F., D. Z. Chase, J. J. Awe, J. F. Weishampel, G. Iannone, H. Moyes, J. Yaeger, M. K. Brown, R. L. Shrestha, W. E. Carter, and J. C. Fernandez Diaz. 2014. Ancient Maya Regional Settlement and Inter-Site Analysis: The 2013 West-Central Belize LiDAR Survey. *Remote Sensing*. 6: 8671-8695.
- 46) Hightower, J. N., A. C. Butterfield, and J. F. Weishampel. 2014. Quantifying ancient Maya land use legacy effects on contemporary rainforest canopy structure. *Remote Sensing*. 6: 10716-10732.
- 45) Reece, J. S., M. Auman, M. Bilski, L. Ehrhart, S. Hagen, A. Hays, C. Long, R. F. Noss, D. Passeri, C. Sanchez, B. Von Holle, J. F. Weishampel, and S. Wolf. 2013. Climate change, sea level rise, and land use influence the distribution of loggerhead (*Caretta caretta*) nests at Melbourne Beach, Florida. *Marine Ecology Progress Series*. 493: 259-274.
- 44) Hagen, S. M., J. T. Morris, P. Bacopoulos, and J. F. Weishampel. 2013. Sea-level rise impact on a salt marsh system of the lower St. Johns River. *Journal of Waterway, Port, Coastal, and Ocean Engineering*. 139: 118-125.
- 43) Medeiros, S. C., S. C. Hagen, N. Chaouch, J. Feyen, M. Temimi, J. F. Weishampel, Y. Funakoshi, and R. Khanbilvardi. 2013. Assessing the performance of a northern Gulf of Mexico tidal model using satellite imagery. *Remote Sensing*. 5: 5662-5679.
- 42) Ceriani, S. A., J. D. Roth, D. R. Evans, J. F. Weishampel, and L. M. Ehrhart. 2012. Inferring foraging areas of nesting loggerhead turtles using satellite telemetry and stable isotopes. *PLoS ONE*. 7: e45335.
- 41) Chaouch, N., M. Temimi, S. Hagen, J. Weishampel, S. Medeiros, and R. Khanbilvardi. 2012. A synergistic use of satellite imagery from SAR and optical sensors to improve coastal flood mapping in the Gulf of Mexico. *Hydrological Processes*. 26: 1617-1628.
- 40) Chase, A. F., D. Z. Chase, C. T. Fisher, S. J. Leisz, and J. F. Weishampel. 2012. Geospatial revolution and remote sensing LiDAR in Mesoamerican archaeology. *Proceedings of the National Academy of Sciences (PNAS)* (featured article) 109: 12916-12921.
- 39) Medeiros, S. C., S. C. Hagen, and J. F. Weishampel. 2012. Comparison of floodplain surface roughness parameters derived from land cover data and field measurements. *Journal of Hydrology* 452-453: 139-149.



- 38) Weishampel, J. F., J. N. Hightower, A. F. Chase, and D. Z. Chase. 2012. Use of airborne LiDAR to delineate canopy degradation and encroachment along the Guatemala-Belize border. *Tropical Conservation Science* (cover article) 5: 12-24.
- 37) Listopad, C. M. C. S., J. B. Drake, R. E. Masters, and J. F. Weishampel. 2011. Portable and airborne small footprint LiDAR: Forest canopy structure estimation of fire managed plots. *Remote Sensing* 3: 1284-1307.
- 36) Weishampel, J.F., J. N. Hightower, A.F. Chase, D.Z. Chase, and R. A. Patrick. 2011. Detection and morphologic analysis of potential below-canopy cave openings in the karst landscape around the Maya polity of Caracol using LiDAR. *Journal of Cave and Karst Studies* (cover article) 73: 187-196.
- 35) Chase, A. F., D. Z. Chase, J. F. Weishampel, J. B. Drake, R. L. Shrestha, K. C. Slatton, J. J. Awe, and W.E. Carter. 2011. Airborne LiDAR, archaeology, and the ancient Maya landscape at Caracol, Belize. *Journal of Archaeological Science* 38: 387-398.
- 34) Chase, D. Z. A. F. Chase, J. J. Awe, J. H. Walker, and J. F. Weishampel. 2011. Airborne LiDAR at Caracol, Belize and the interpretation of ancient Maya society and landscapes. *Research Reports in Belizean Archaeology* 8: 61-73.
- 33) Duncan, B. W., J. F. Weishampel, and S. H. Peterson. 2011. Simulating a natural fire regime on an Atlantic coast barrier island complex in Florida, USA. *Ecological Modelling* 222: 1639-1650.
- 32) Long, T. M., J. Angelo, and J. F. Weishampel. 2011. LiDAR-derived measures of hurricane-and restoration-generated beach morphodynamics in relation to sea turtle nesting behaviour. *International Journal of Remote Sensing* 32: 231-241.
- 31) Angelo, J. J., B. W. Duncan, and J. F. Weishampel. 2010. Using Lidar-derived vegetation profiles to predict time since fire in an oak scrub landscape in East-Central Florida. *Remote Sensing* 2: 514-525.
- 30) Chase, A. F., D. Z. Chase, and J. F. Weishampel. 2010. Lasers in the Jungle: Airborne sensors reveal a vast Maya landscape. *Archaeology* 63:27-29.
- 29) Weishampel, J. F., D. A. Bagley, L. M. Ehrhart, A. C. Weishampel. 2010. Nesting phenologies of two sympatric sea turtle species related to sea surface temperatures. *Endangered Species Research*. 12: 41-47.
- 28) Hannan, L., J. Roth, L.M. Ehrhart, and J. F. Weishampel. 2007. Dune vegetation fertilization by nesting sea turtles. *Ecology* 88: 1053-1058.
- 27) Weishampel, J. F., J. B. Drake, A. Cooper, J. B. Blair, and M. Hofton. 2007. Forest canopy recovery from the 1938 hurricane and subsequent salvage damage measured with airborne LiDAR. *Remote Sensing of Environment* 190: 142-153.
- 26) Weishampel, J. F., D. A. Bagley, and L. M. Ehrhart. 2006. Intra-annual sea turtle nesting patterns along an East Central Florida beach. *Southeastern Naturalist* 5: 453-462.
- 25) Kirkpatrick, L. and J.F. Weishampel. 2005. Quantifying spatial structure in volumetric neutral models. *Ecological Modelling* 186: 312-325.
- 24) Husk, G. J., J. F. Weishampel, and W. H. Schlesinger. 2004. Mineral dynamics in Spanish moss, *Tillandsia usneoides* L. (Bromeliaceae) from Central Florida, USA. *Science of the Total Environment* 321: 165-172.
- 23) Weishampel, J. F. D. A. Bagley, and L. M. Ehrhart. 2004. Earlier nesting by loggerhead sea turtles following sea surface warming. (cover article) *Global Change Biology*. 10: 1425-1428.
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**Non-Peer Reviewed Published Abstracts** (total=27):

- 27) Lyons, M.P., B. Von Holle, J.F. Weishampel. 2020. Impacts of Climate and Flooding on Current and Future Sea Turtle Nest Survival in the Eastern United States. *Integrative and Comparative Biology* 60: E147.
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- 25) Swanson, C. and J. Weishampel. 2015. Flying Under the LiDAR: Relating Forest Structure to Bat Community Diversity. AGU Conference Proceedings.
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- 23) Morris, J. T., S. C. Hagen, S. C. Medeiros, J. F. Weishampel, J. Edwards and K. Alizad. 2013. Forecasting current and future carbon stocks in Gulf of Mexico estuaries. AGU Conference.
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- 21) Hagen, S., D. Passeri, D. DeLorme, W. Huang, G. Lewis, J. T. Morris, D.N. Slinn, L. Walters, D. Wang, and J. Weishampel. 2011. Ecological effects of sea level rise in the northern Gulf of Mexico. AGU Conference Proceedings. 1: 3.
  - 20) Angelo, J. J., S.C. Hagen, N. Chaouch, M. Temimi, S. C. Medeiros, J. C. Feyen, Y. Funaksohi, R. Khanbilvardi, J. Weishampel, F. Aikeman, P.J. Restrepo, and D. Reed. 2010. Use of SAR data, optical images, and topographic data for coastal flood mapping in the northern Gulf of Mexico. AGU Conference Proceedings. 1: 1281.
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  - 15) Clark, D. B., S. D. Prince, and J. Weishampel. 1999. The use of full-return waveform laser altimetry to measure forest canopy closure. *Eos* 80 (46), Suppl.
  - 14) Dubayah, R., J. B. Blair, D. B. Clark, M. Hofton, R. G. Knox, S. Prince, and J. Weishampel. 1999. The Earth as never seen before: VCL and the lidar revolution in land surface characterization. *Eos* 80 (46), Suppl.
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**Miscellaneous Publications** (9 total):

- 9) Weishampel, J.F. 2014. Book Review: *Interpreting Archaeological Topography*. *Society for Archaeological Sciences Bulletin*. 37: 25-26.
- 8) Atkinson, J., H. Roberts, S. C. Hagen, S. Zou, P. Bacopoulos, S. Medeiros, J. Weishampel, and Z. Cobell. 2011. Historical Validation for an ADCIRC storm surge model of the Florida Gulf coast. *Florida Watershed Journal*. 4: 22-27.
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- 5) Gillespie, T. W., J. Brock, and C.W. Wright. 2004. Prospects for quantifying structure, floristic, composition and species richness of tropical forests. *International Journal of Remote Sensing* 25: 707-715.
- 4) Bolten, A. B. and B. E. Witherington. 2003. *Loggerhead sea turtles*. Smithsonian Books. Washington, DC.
- 3) Lucas, R. M, A. A. Held, S. R. Phinn, and S. Saatchi. 2004. Tropical Forests. *Manual of Remote Sensing, Volume 4, Remote Sensing for Natural Resource Management and Environmental Monitoring* (S. Ustin, editor). Wiley.
- 2) Turner, W., S. Spector, N. Gardiner, M. Fladeland, E. Sterling, and M. Steininger. 2003. Remote sensing for biodiversity and conservation. *Trends in Ecology and Evolution* 18: 306-314.
- 1) Taylor, W. K. 1998. *Florida Wildflowers in Their Natural Communities*. University Press of Florida, Gainesville, FL.

**Research Awards** (students are underlined):

- 2018 - UCF Preeminent Postdoctoral Program (P3) recipient (\$58,000, with Betsy von Holle)
- 2017 - Inducted to Scroll & Quill Society, UCF honor society for sustained research productivity
- 2014 - Outstanding Presentation Award - Society for Conservation GIS, Monterey, CA (Lavinia Cheng - primary author)
- 2013 - Best Poster Award - Southeastern Exotic Pest Plant Council Symposium, Panama City, FL (Alexis Maldonado - primary author)
- 2013 - UCF Graduate Research Forum Award - Life and Health Sciences Category (Alexis Maldonado - primary author)
- 2012 - Fulbright Senior Scholar - Department of Remote Sensing and Landscape Information Systems, University of Freiburg, Freiburg, Germany "Using LiDAR to delineate ancient land use patterns and characterize contemporary forest structure across Old and New World landscapes" (~€20,000)
- 2012 - 2<sup>nd</sup> Place Poster Presentation - ISOECOL, Brest, France (Simona Ceriani - primary author)

- 2012 - Archie Carr Award - Best Conservation Presentation - International Sea Turtle Symposium, Huatulco, Mexico (Monette Auman - primary author)
- 2011 - Outstanding Reading Senior High School Alumnus (Reading, Pennsylvania)
- 2011 - Archie Carr Award - Best Foraging, Physiology, & Movement Presentation - International Sea Turtle Symposium, San Diego, CA (Simona Ceriani - primary author)
- 2010 - Article on LiDAR remote sensing of Caracol was among the top-ten visited stories on the *National Geographic* web site
- 2010 - UCF Showcase of Undergraduate Research Excellence Awardee in Social Science Category (Alison Matos - primary author)
- 2008 - Best Poster Award at Southern Forestry and Natural Resources GIS Conference (James Angelo - primary author)
- 2008 - UCF Graduate Research Forum Award - Life and Health Sciences Category (Tonya Speight - primary author)
- 2006 - Fulbright Scholarship – Distinguished Research Chair in Airborne Remote Sensing – Simon Fraser University, Vancouver, British Columbia “Quantifying Forest Canopy Structure Using Airborne Remote Sensing” (\$70,000 CD)
- 2005 - 06 - Charles Bullard Fellowship, Harvard Forest “Using Lidar to Quantify Land Use Effects on Forest Canopy Structure” (\$20,000)
- 2004 - UCF Office of Research and Commercialization Master Juggler Award (for most concurrent grants)
- 2001 - *Remote Sensing of Environment* paper was among the top 10 downloaded articles
- 2001 - Best Letter Award from the Remote Sensing and Photogrammetry Society for the 2000 *International Journal of Remote Sensing* article, presented at London conference
- 2001, 2006, & 2015 - UCF Research Incentive Award (\$5,000 added to base salary)
- 2000 - UCF Presidential Merit Award (\$3,000 added to base salary)
- 1999 - Haverlee Award from the Central Florida Chapter of the Explorer's Club (\$1,500 to help send MS student, Carrie Yoder, to Panama)
- 1997 - NASA Goddard Space Flight Center Group Achievement Award for the Forest Ecosystems Dynamics (FED) Project
- 1994 - Jet Propulsion Laboratory (JPL)/Caltech Earth Sciences Summer School Award (\$800)
- 1993 - 95 - National Research Council (NRC) Research Associateship Award (\$36,000/yr)
- 1990 - 93 - NASA Graduate Student Fellowship in Global Change Research (\$22,000/yr)
- 1991 - University of Virginia, Department of Environmental Sciences Research Award (\$2,500)
- 1990 - Planetary Biology Internship from the Woods Hole Biological Laboratory (\$2,000)

**Research and Education Grants** (total awarded since 1996 ≈\$15,000,000):

### **Federal**

#### **Department of Education (ED)**

Promoting Postbaccalaureate Opportunities for Hispanic Americans (PPOHA) - Co-PI/primary proposal writer (Cyndia Muñoz - PI Director of HSI Culture and Partnerships)

2022 - 27 - “ENFERMERIA: Educating Nurses for Engagement, Research, Mentoring Excellence & Reinforcing Interpretation Access” (\$3,332,512, c. 2025)

#### **Environmental Protection Agency (EPA)**

Science To Achieve Results (STAR) Research Grants - Co-PI (J. W. Milon - PI, UCF Economics)

2004 - 08 - “Integrating Stated Choice Methods and Landscape Mapping for Valuation of Wetland Ecosystem Services” (\$446,874)

#### **National Aeronautics and Space Administration (NASA)**

Earth Science for Decision Making - Gulf of Mexico Region – Co-PI (S. Hagen - PI, UCF CECE)

2009 - 11 - “Establishing the Application of High Resolution Satellite Imagery to Improve Coastal and Estuarine Models” (\$412,308)

Space Archaeology Program - PI (A. Chase and D. Chase – Co-PIs, UCF Anthropology)

2008 - 12 - “Remote Sensing of Ancient Maya Land Use Features at Caracol, Belize related to Rainforest Canopy Structure” (\$411,982)

Earth System Science Education Program – Co-PI (with J. Drake USDA Forest Service)

2005 - 06 - “Integrating and Assessing the Effectiveness of a Custom Web-based Delivery System for NASA’s Remotely Sensed Imagery and Data Products for Conservation Biology Education and Research” (\$20,000)

Earth System Science Pathfinder Program - Co-I (Ralph Dubayah - PI, Univ. Maryland Geography)

1997 - 02 - “Vegetation Canopy Lidar Mission” (\$60.3 million, UCF contract = \$212,974)

Earth Science Enterprise (previously Mission to Planet Earth)

2005 - 07 - Earth System Science Fellowship (to A. Cooper). “Detecting changes in vertical canopy structure of tropical rainforests using LiDAR” PI (\$72,000)

1996 - 00 - New Investigator Program Award. “Detecting and Modeling Spatial Canopy Properties of Forested Landscapes” PI (\$316,472)

Kennedy Space Center - PI (with Jay Garland, Dynamac Corporation)

1999 - 01 - “Fungal Diversity in Compost Studied using both Traditional Plating and Molecular Approaches” (\$110,000)

Terrestrial Ecology Program via Goddard Space Flight Center

1996 - “Comparison of SLICER Waveforms with Simulated Canopy Profiles” PI (\$12,000).

1996 - 97 - “Coupling Ecosystem and Remote Sensing Models to Simulate Gap- and Landscape-scale Patterns and Processes in Central Maine” PI (\$47,992).

#### **National Fish and Wildlife Service (NFWS)**

South Atlantic Landscape Conservation Cooperative Co-PI (B.Von Holle – PI, UCF Biology)

2011 - 13 - “Investigation of the effects of sea level rise on sea turtle, shorebird, seabird, and beach mouse nesting distributions” (\$150,000)

#### **National Oceanographic and Atmospheric Administration (NOAA)**

2010 - 14 - “Integrated Modeling for the Assessment of Ecological Impacts of Sea Level Rise” - Co-PI (S. Hagen - PI, UCF Engineering) (\$2,929,528)

2004 - 06 - “Assessing and Modeling Mangrove Forest Dynamics along the Temperate-Subtropical Ecotone in Eastern Florida” PI (fellowship for Sue Leitholf) (\$57,144)

#### **National Park Service (NPS)**

Southeast Regional Office

2016 - 18 - “Investigate predicted effects of climate change, sea level rise, and urban growth on sea turtle nesting in the SERO National Parks for management purposes” (\$154,177) Co-PI (B. Von Holle - PI, NSF/UCF Biology)

2009 - 11 - “Mapping Impacts of Recreational Boating Versus Restoration of Oyster Reefs at Canaveral National Seashore” (\$24,700) Co-PI (L. Walters - PI, UCF Biology)

#### **National Science Foundation (NSF)**

Directorate for Technology, Innovation and Partnerships (TIP), Accelerating Research Translation (ART)

2024 - 28 - “ART: From Research to Impact, Building the Translational Capacity of UCF’s Innovation Ecosystem” (\$5,873,888) collaborator (PI - Garibay)

Division of Graduate Education (DGE)

2019 - 20 - Intergovernmental Personnel Act (IPA) (~\$400,000 for Weishampel rotator position)

National Center for Airborne Laser Mapping (NCALM)

2014 - “Using shallow water bathymetric LiDAR data to characterize seagrass beds to parameterize storm surge and sea level rise models” (~\$15,000 for seed money for Stephanie Garvis)

2008 - “Identification of Optimal Habitat for the Florida Scrub-Jay (*Aphelocoma coerulescens*) Using ALSM Data” (~\$15,000 for seed money for James Angelo)

Division of Social and Economic Sciences - Co-I (G. Harrison - PI, UCF Economics)  
2006 - 09 - "DRU: Cognition in Natural Environments: Using Simulated Scenarios in Complex Decision Making Experiments" (\$647,430)

Division of Environmental Biology CAREER Award - PI  
2000 - 05 - "Analyzing, Modeling, and Visualizing 3-Dimensional Structural Complexity in Forest Canopies" (\$578,515)

#### **STRICOM – Department of Defense (DOD)**

2002 - "The Enhancement of Training in Virtual and Mixed Reality Environments with Realistic Vegetation" - Co-PI (with C. Hughes, UCF Computer Science) (\$149,789)

#### **USDA Forest Service**

2006 - 08 - "High Resolution Mapping of Fire Risk in the Leon County, FL Wildland-Urban Interface using Lidar Remote Sensing" - PI (with J. Drake USDA) (\$51,856)

#### **State**

#### **Florida Exotic Plant Pest Council (FLEPPC)**

2013 - 14 - "A LiDAR Evaluation of 3-Dimensional Patterns of the Invasive *Lygodium microphyllum*" (to Alexis Maldonado) (\$1,965)

#### **Florida Fish and Wildlife Conservation Commission (FWC)**

2017- 18 - "Shoreline Characterization in the Northern Coastal Basins." (\$19,028).

#### **Florida Space Grant Consortium (FSGC)**

Undergraduate Space Research Program and Academic Year Undergraduate Program Awards  
1999 - "Examination of 1/f noise in Microbial Functional Dynamics" PI (co-PI J. Garland) (\$14,000)  
1998 - "Pantropical Change in Textural Properties of 'Intact' Rainforests" PI (\$22,000)  
1997 - "Comparison of SIR-C and Laser Altimetry Returns over Eastern U.S. forests" PI (\$12,000)  
1996 - "Change in Textural Properties of Amazon Rainforests" PI (\$11,000)  
1996 - "Detection of Forest Biomass using Textural Analysis of SAR Imagery" PI (\$5,000)  
1996 - "Spatial Analysis of Theorized Successional Patterns" PI (\$5,000)

#### **Florida Space Institute (FSI)**

Space Research Initiative

2012 - 13 - "Remote Sensing of Nesting Sea Turtle Tracks: Development and Application of Computer Vision Algorithms" - PI (\$51,211)

#### **St. Johns River Water Management District (SJRWMD)**

2014 - 15 - "Northern Coastal Basins Oyster Mapping" - Co-PI (L. Walters - PI, UCF Biology) (\$145,659)

2006 - 07 - "Northern Coastal Basins Oyster Mapping" - Co-PI (L. Walters - PI, UCF Biology) (\$37,650)

2000 - 02 - "Plant Community Mapping and Spatial Data Acquisition in the Wetland Corridor of the Upper St. Johns River Basin" PI (\$52,464)

#### **Private**

#### **Council of Graduate Schools/NSF**

2023-27 – "Broadening Participation in STEM Graduate Degrees and the U.S. STEM Workforce" Senior Personnel - PI (\$75,000, c. 2025)

#### **Alfred P. Sloan Foundation**

Creating Equitable Pathways to STEM Graduate Education

2022 - 24 - "ACCESO (Academic Consortium to Cultivate Engineering & Science Opportunities) - Liberal Arts Colleges→R1 HSIs: Pathways for Latina/o/x Graduate STEM Success" - PI (\$423,090)

#### **Alphawood Foundation**

2012 - 13 - "LiDAR Acquisition in Western Belize: Answering Socio-Political Questions in Maya Archaeology" - Co-PI (A. Chase - PI, UCF Anthropology) (\$360,265)

**UCF Learning Institute for Elders (LIFE) Award**

2013 - 14 - “Acoustic surveying of bat community diversity in relation to LiDAR-derived forest structure” (\$2,500)

**Archbold Biological Station**

2007 - “Using LiDAR to explore ecosystem structure and dynamics at Archbold” (\$5,000)

**Hubbs-SeaWorld Research Institute (HSWRI)** 2003 - “Florida Dolphin Stranding Database: Modernization, Verification, and Analysis” (\$7,200)

**Professional Service-Related Activities**

**Manuscript Reviewer** (>100 manuscripts for >50 journals and chapters for four books):

*Advances in Archaeological Practice* (2); *American Midland Naturalist*; *Animal Behaviour*; *Animal Conservation*; *Annales Zoologici Fennici*; *Applied Vegetation Science* (2); *Biological Conservation* (3); *BioScience* (11); *Biotropica*; *Canadian Journal of Zoology*; *Canadian Journal of Remote Sensing* (2); *Caribbean Journal of Science*; *Chelonian Conservation and Biology* (3); *Cogent Geoscience*; *Conservation Ecology*; *Ecography*; *Ecological Applications*; *Ecological Modelling*; *Ecology*; *Ecosystems*; *Environmental Management* (2); *Endangered Species Research*; *Forestry: An International Journal of Forest Research*; *Forest Science*; *Functional Ecology*; *Geophysical Research Letters*; *Geoscience and Remote Sensing Letters*; *Global and Planetary Change*; *Global Change Biology* (2); *Herpetological Review*; *IGARSS* (4); *Integrative Zoology*; *International Journal of Remote Sensing* (2); *Landscape Ecology* (7); *Journal of Archaeological Science*; *Journal of Basic & Applied Sciences*; *Journal of Geophysical Research - Atmospheres*; *Journal of Herpetology*; *Journal of Tropical Ecology*; *Journal of Vegetation Science* (3); *Marine Biology* (2); *Nature Climate Change*; *Natural Resource Modeling*; *Photogrammetric Engineering & Remote Sensing*; *Plant Ecology*; *PLOS One*; *Proceedings of the Royal Society - Biology Letters*; *Remote Sensing*; *Remote Sensing of Environment* (4); *Revista de Biología Tropical*; *Selbyana*; *Sensors* (2); *Science of the Total Environment*; *Tropical Conservation Science*; *Urban Ecosystems* (2); *Water, Air, and Soil Pollution* (4); and *Virginia Journal of Science*.

Liu, J. and W. W. Taylor. 2003. *Integrating Landscape Ecology into Natural Resource Management*. Cambridge University Press, Cambridge.

Maslo, B. and J. L. Lockwood. 2014. *Coastal Conservation*. Cambridge University Press, Cambridge.

Shao, G. and K. Reynolds 2006. *Computer applications in sustainable forest management*.

Springer-Kluwer, New York.

Wisniewski, J. and A. E. Lugo. 1992. *Natural sinks of CO<sub>2</sub>*. Kluwer Publishers, Boston.

**Academic Textbook Chapter Reviews:**

Berg, L.R. and M.C. Hager. 2008. *Visualizing Environmental Science*. Jon Wiley & Sons. Hoboken, NJ.

Houtman, A., S. Karr, and J. Interlandi. 2013. *Environmental Science for a Changing World*. W. H. Freeman and Scientific American. New York.

Lee, K., W. Freudenburg, and R. B. Howarth. 2012. *Humans in the Landscape*. W.W. Norton & Co., New York.

Molles, M.C. 2008. *Ecology: Concepts & Applications*. McGraw-Hill. New York.

Molles, M.C. and A. Sher 2020. *Ecology: Concepts & Applications*. 9e. McGraw-Hill. New York.

Molles, M. C. and B. Borrell. 2016. *Environment: Science Issues, Solutions*. W. H. Freeman, New York.

Raven, P.H., L. R. Berg, and D. M. Hassenzahl. 2010. *Environment* 7<sup>th</sup> Ed. J. Wiley & Sons.

SimUText Ecology. 2012. SimBiotic Software.

Stiling, P. 2008. *Global Change Ecology*. McGraw-Hill. New York.

Van der Pluijm, B.A. and L.T. Sefcik. 2006. *Inquires in Global Change: Systems Modeling, Spatial Analysis and Critical Reading Activities*. W.W. Norton & Co., New York.

Weber, L. M. *Ecology: Evolution of an Idea*. Oxford University Press, New York.

Withgott, J. and S. Brennan. 2007. *Environment: The Science Behind the Stories*. Pearson/Benjamin Cummings. San Francisco, CA.

Wright, R. 2008. *Environmental Science: Toward a Sustainable Future*. Pearson, San Francisco, CA.

**Proposal Review Panel** (29 federal panels):

- Fulbright** 2018 Environmental Science: Sustainability and Conservation – European Committee  
2014, 2015 & 2016 - Regional (Germany) Review for Scholars Program, Washington DC  
2015, 2017 & 2021 - U.S. Student Science Program (Germany & Netherlands), Houston, TX, Washington, DC
- NASA** 2017 & 2019 - Carbon Monitoring System – Chevy Chase, MD & Washington DC  
2014 - Earth and Space Science Fellowship - Carbon Cycle & Ecosystems, Arlington, VA  
2008 & 2016 - Biodiversity, Washington, DC  
2005 - ICESat (Ice, Cloud, and land Elevation Satellite), Baltimore, MD  
2005 - Large-scale Biosphere-Atmosphere Experiment in Amazonia, Arlington, VA  
2001 - Carbon Cycle Science, Washington, DC  
1999 - Earth Science Enterprise New Investigator Program, Washington, DC
- NSF** 2022 - NSF Research Traineeship (NRT)  
2022 - Innovations in Graduate Education (IGE)  
2017, '19, '22, '23, '24. '25 - Graduate Research Fellowship Program (GRFP) - Ecology  
2011 & 2016 - Macrosystems Biology, Arlington, VA  
2007 – Instrument Development for Biological Research (IDBR), Arlington, VA  
2007 – National Ecological Observatory Network (NEON), Sioux Falls, SD
- USDA** 2003 - Cooperative State Research, Education, and Extension Service -National Research Initiative: Managed Ecosystems, Washington, DC

**Ad Hoc Proposal Reviewer** (>75 proposals, including 5 from international agencies):**American Association for the Advancement of Science (AAAS)**

2020-21 - Science and Technology Policy Fellowships

**Canadian Foundation for Innovation (CFI)**

2006 - New Initiatives Fund

**EPA/NOAA/NASA**

1999 - Coastal Intensive Site Network (CISNET) Program

**Florida Space Grant Consortium (FSGC)**

1997 &amp; 2001 - Florida Space Grant Fellowship Program

**Fulbright Scholar Program**

2007 &amp; 2008 - Senior Specialists Program - Environmental Sciences Discipline

**Harvard University Fellowship Committee - 2013****NASA**

2024 - Postdoctoral Program

2015 - Earth Venture

2011 - Earth Venture-2 (EV2)

2003 - Earth Science REASoN Program (2)

2002 &amp; 2004 - New Investigator Program (4)

2000 - Earth Science Enterprise Education Program (4)

2000 - Land Cover Land Use Change (LCLUC) (8)

1998, 2003, &amp; 2008 - Terrestrial Ecology Program (10+)

1997 - Mission to Planet Earth (MTPE) Education Programs

1995 - Global Change Research Fellowship (4)

**National Environment Research Council (NERC-UK)**

2008 - Ecology and Hydrology Funding Initiative (EHFI)

**National Fish and Wildlife Foundation**

2005 - General Matching Grant Program

**National Geographic Society**

2016 – Conservation and Exploration

**NSF (since 2001), reviewed >10 proposals representing 7 programs**

**Netherlands Organisation for Scientific Research (NWO)** - Earth and Life Sciences Department

2012 - Vidi grant in the Innovational Research Incentives Scheme

**Oak Ridge Associated Universities (ORAU)**

2007 - Oak Ridge Institute for Science and Education (ORISE) - Postdoctoral Program (3)

**Smithsonian Institution**

1997 - Scholarly Studies Program (2)

**South African National Research Foundation (NRF)**

2003 - Conservation and Management of Ecosystems and Biodiversity Program

**USDA**

1999 - National Research Initiative Competitive Grants Global Change Research Program

1998 & 2000 - Small Business Innovation Research (SBIR) Programs

**U.S. Department of Defense**

2010 - U.S. Army Corps of Engineer's Engineer Research and Development Center

**U.S. Civilian Research and Development Foundation (CRDF)/Russian Ministry of Education**

2002 - Basic Research and Higher Education Program

**Academic and Federal Government Promotion File Reviewer:**

2023 - for the University of Florida, School of Forest, Fisheries, and Geomatics Sciences

2013 - for the University of New Hampshire, Institute for the Study of Earth, Oceans, and Space

2012 - for the University of the West Indies, Department of Life Sciences

2008 - for Portland State University, Environmental Sciences and Management

2007 - for Purdue University, Forestry and Natural Resources

2005 & 2008 - for Smithsonian Environmental Research Center research scientist

2003 - for NASA Goddard Space Flight Center engineer/scientist

**Invited Research Workshops:**

2018 - Application of LiDAR to Measure Environmental Parameters - Université Paris Nanterre

2016 - From risk to resilience, from past to present: critical perspectives and comparative approaches, University of Catania, Sicily

2015 - Sea Turtle Research and Rehabilitation Symposium, Kaohsiung, Taiwan

2014 - National Ecological Observatory Network (NEON) Scaling Workshop, Boulder, CO

2013 - Changbai Mountain Eco-Forum, UNESCO Man and the Biosphere Programme. Jilin, China

2013 - Application of Lidar Surveys in Archaeology, IUPPS Commission (UNESCO) on Archaeogeography, University of Paris, France

2012 - Application of Lidar Surveys in Archaeology – some examples from France and abroad, IUPPS Commission (UNESCO) on Archaeogeography, University of Paris, France

2011 - International Union of Prehistoric and Protohistoric Sciences (IUPPS) Congress, UNESCO, Florianopolis, Brazil

2010 - NOAA Gulf of Mexico Sea Level Rise workshop, Silver Spring, MD

2007 - NASA DESDynI mission workshop, Orlando, FL

2005 - NASA Biodiversity and Ecological Forecasting Team, Washington, DC

2005 - Coastal Ecosystems of Indian River Lagoon/Cape Canaveral Region: Collaborative Research Priorities. Kennedy Space Center, FL

2003 - Gulf Coast Cooperative Ecosystem Study Unit (CESU), College Station, TX

2003 - NASA Multi-Dimensional Forest Ecosystem Structure: Requirements for Remote Sensing Observations. Annapolis, MD (served on organizing committee)

2003 - Southeastern Ecological Observation Network (SEEON) meeting, Kennedy Space Center, FL

2003 - St. Johns River Summit, Jacksonville, FL

2002 - East Central Florida Regional Conservation Workshop, Titusville, FL  
 2002 - NSF - Biodiversity and Ecosystem Informatics for the Indian River Lagoon, Cocoa Beach, FL  
 1999 - European Science Foundation/National Science Foundation - sponsored Future Forest Canopy Research Workshop, Oxford, UK

**Oak Ridge Associated Universities (ORAU) National Science Bowl Question Reviewer:**

2017 - Middle School Earth & Planetary Sciences  
 2016 - High School Biology

**Museum Exhibit Consultant/Contributor:**

2013 - “Maya: Hidden Worlds Revealed,” Traveling exhibit: Science Museum of Minnesota,  
 2024 Minneapolis, MN (June - Dec 2013, Jan 2024), Denver Museum of Nature & Science, Denver, CO (Feb - Aug 2014), Museum of Science, Boston, MA (Oct 2014 - May 2015), Reuben H. Fleet Science Center, San Diego, CA (June 2015 - Jan 2016), The Witte Museum, San Antonio, TX (Feb - Sept 2016), Perot Museum of Nature and Science, Dallas TX (Feb – Sept 2017), University of Texas – Rio Grande Valley, Edinburg, TX (Oct 2017 - Jan 2018), Milwaukee Public Museum, Milwaukee, WI (Feb - May 2018), Natural History Museum of Utah, Salt Lake City, UT (Nov 2018 - May 2019), Connecticut Science Center, Hartford (March 2020), Fernbank Museum, Atlanta (Feb 2021)

**Local Advisory Boards:**

- Orlando Science Center – President’s Science Advisory Council
- myregion.org Scientific Committee
- East Central Florida Regional Planning Council - Modeling Wekiva River Protection Area

**Professional Society Affiliations:**

- American Geophysical Union (1999-2001, 2012, 2019)
- Association of Graduate Liberal Studies Programs (2015-2023)
- Association for Interdisciplinary Studies (2015-2023)
- Ecological Society of America, Education Section (intermittently since 1989)
- International Association of Landscape Ecology (intermittently since 1994)
- International Canopy Network (intermittently since 1999)
- International Society of Ecological Modelling (intermittently since 1994)
- International Union of Forest Research Organizations (IUFRO), Sustainable Forest and Landscape Management Working Group (2004 - present)
- International Union of the Prehistoric and Protohistoric Sciences (UISPP), Landscape Archaeology - Archaeogeography Commission (2010 - present)
- Florida Climate Institute (2013 - present)
- Mid-Florida Chapter of the Fulbright Association (2013 - present)
- National Professional STEM Masters Association (NPSMA) (2015-2023)
- North American Association for Environmental Education (2008 - 2014)
- Society for Conservation GIS (intermittently since 2001)

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**Research Coverage in Government Reports and Media**

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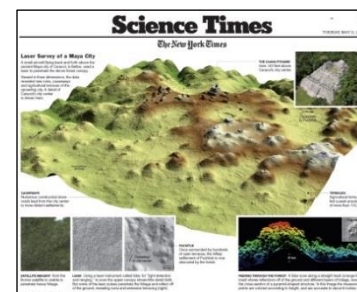
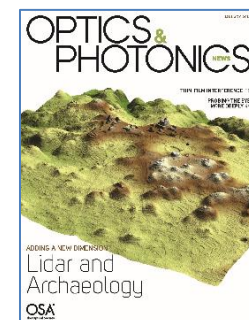
**Government Reports:**

2007 - U.S. General Accounting Office (GAO) - Climate Change: Agencies Should Develop Guidance for Addressing the Effects on Federal Land and Water Resources.  
 2006 - Bergen, K., R. G. Knox, and S. Saatchi. Multidimensional Forested Ecosystem Structure Requirements for Remote Sensing Observations. NASA/CP-2005-212778. NASA GSFC, Greenbelt, MD

**Selected Newsprint/Magazines:**

2023 - *Proceedings of National Academy of Sciences (PNAS)* News Feature “Light pollution is fixable. Can researchers and policymakers work together to dim the lights?” 120 (27) e2309539120.  
 2023 - *Discover Magazine* “From Ruins to Ancient Farming, Lidar Technology Helps Reveal Ancient Societies”

- 2019 - *American Scientist* “Estimating Ancient Populations by Aerial Survey”  
 2014 - *PNAS* News Feature “Mapping the lost megalopolis” 111: 15283-15285.  
 2014 - *Optics and Photonics News* “Adding a New Dimension: Lidar and Archaeology” (cover article)  
 2013 - *The New Yorker* “The El Dorado Machine: A New Scanner’s Rain-Forest Discoveries”  
 2012 - *Amandala* (leading newspaper in Belize) “NASA-funded study shines light into deforested Belizean forests”  
 2011 - *U.S. News and World Report* “Laser Mapping Helps Archaeologists and City Planners”  
 2010 - *Der Spiegel* “Metropole in busch”  
 2010 - *New York Times* “Mapping ancient civilization, in a matter of days”  
 2010 - *Science et Vie* “Une cite Maya cartographiée en relief”  
 2008 - *Chicago Tribune* “UCF to map Belize ruins using satellites, radar”  
 2008 - *Orlando Sentinel* “Laser to help map Mayan ruins in Belize”  
 2005 - *National Wildlife* (special issue on Global Warming) “Out of Sync”  
 2004 - *Florida Today* “Loggerheads nest earlier on Space Coast”  
 2004 - *Orlando Sentinel* “Sea turtles nesting earlier in Brevard, Biologists think the reptiles responded to the warmer climate created by global warming”  
 2004 - *Rosh-Gadol*, an Israeli science magazine for child ren covered the turtle story in Hebrew  
 2004 - *Reading Eagle* “Commitment to Nature”  
 2004 - Scripps Howard News Service “Effects of climate warming are here and now”  
 2004 - United Press International (UPI) “Early turtle nests sign of global warming”  
 1999 - *Baltimore Sun* “Md. laser tests may help in global warming battle”  
 1997 - *New York Times* “NASA plans to study forests and global gravity”  
 1997 - *Orlando Sentinel* “UCF biologist and NASA team up to measure trees”



### **TV/Radio:**

- 2023 - Spectrum News 13 “UCF Working to Bring in more Latinos into graduate STEM programs”  
 2022 - PBS NOVA “LIDAR Technology Helps Uncover a Maya Metropolis”  
 2019 - *Reveal* from the Center for Investigative Reporting (NPR national) - “Silencing Science”  
 2018 - WUFT - 89.1 (Gainesville) “Falcon 9 launches GEDI sensor to Space Station”  
 2018 - French National Radio “Sur les épaules de Darwin (On the shoulders of Darwin)”  
 2004 - WESH - Channel 2 (Orlando) on earlier sea turtle nesting  
 1999 - WFME - 90.7 FM (Orlando) on global warming and El Niño Southern Oscillation (ENSO)  
 1998 - WDBO - 580 AM (Orlando) on climate, prescribed burning, and Central Florida fires  
 1996 - WUCF - 89.9 FM (Orlando) on the value of natural areas for ecological laboratories



### **Selected Electronic media:**

- 2018 - *Earth: The Science Behind the Headlines* “Turning modern “eyes” on ancient sites”  
 2016 - NOAA NESDIS Newsletter “Study involving NOAA satellite data finds coastal lighting polices a boon to sea turtles”  
 2014 - *IFLSCIENCE!* “Scientists use lasers to discover ancient lost city”  
 2013 - *Slate* “Eat your heart out, Indiana Jones”  
 2012 - *BBC* “Lidar archaeology shines light on hidden sights”  
 2012 - *Mongabay* “Airborne lasers discover undocumented deforestation in Belize park”  
 2010 - *American Scientist* “Will Lidar Transform Maya Archaeology?”  
 2010 - *The Chronicle of Higher Education* “Mapping ancient civilization, in a matter of days”

- 2010 - *National Geographic* “Massive Maya city revealed by lasers”  
 2010 - *Photonics* “Lidar mapping revolutionizes archaeology”  
 2010 - *Science Daily* “Laser beams penetrating thick canopy detect thousands of new structures, show Maya adept at ‘building green’”  
 2008 - *GIS in Education* “LiDAR remote sensing to unlock Maya hidden by forest canopy”  
 2008 - *Photonics* “Lasers to Map Mayan Ruins”  
 2006 - *NASA Earth Observatory* “NASA assists search for woodpecker thought to be extinct”  
 2004 - *NASA Earth Observatory* “New Tools for Conservation”  
 2004 - *AAAS EurekAlert* “Loggerhead sea turtles nesting earlier due to warmer ocean temperatures”  
 This news story was picked up by numerous (~100) websites e.g., Environmental News Network, Vancouver Aquarium News, The Heat is Online, ScienceDaily, Wildlifeglobe, U.S. Global Change Research program  
 1999 - *CNN.com* “Laser instrument to measure forest health”  
 1999 - *Science* online “Laser to Map U.S. Forests”

### **Popular Books:**

- 2019 - *Archaeology from Space: How the Future Shapes Our Past*. Sarah Parcak. Holt. New York.  
 2018 - *The Laser That’s Changing the World: The Amazing Stories Behind LIDAR, from 3D Mapping to Self-Driving Cars*. Todd Neff. Prometheus Books. Amherst, NY.  
 2017 - *The Lost City of the Monkey God: A True Story*. Douglas Preston. Grand Central Publishing.  
 2006 - *Voyage of the Turtle: In Pursuit of the Earth’s Last Dinosaur*. Carl Safina. Holt. New York.

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### **University Service-Related Activities**

#### **University Level:**

Chair of: Committee to develop interdisciplinary Environmental Studies Major and Minor; Conservation Element for Master Planning Committee; Environmental Management Systems Committee; Arboretum Director Search Committee; Director of Landscape and Natural Resources Search Committee; Foundations of Excellence (FoE) - Learning Dimension; National Collegiate Champion Skimboarding Club (past-advisor).

Member of: Academic Computing Advisory Committee; American Council on Education (ACE) Internationalization Lab; Career Services & Experiential Learning’s Faculty Advisory Board; Coalition of Urban Serving Universities (USU); Course and Program Fee Review Committee; Curriculum Committee (ex-officio); Fellowships Committee; Program Review and Awards Committee (ex-officio); Faculty Center for Teaching and Learning STEM-Non-STEM workshop leader (with Daniel Murphree-History); Master Planning Committee; Hispanic Serving Institution Task Force; Minority Fellowship Committee; Strategic Planning Committee (Graduate Education); Student Development and Enrollment Services (SDS) Advisory Council; Office of Research & Commercialization (ORC) Proposal Review Committee; ORC Travel Committee; ORC NSF CAREER Award Mentoring Program (Waterman-2006 recipient, Song-2013 recipient, de Bekker-2020 recipient); Order of the Pegasus Review Committee; Graduate Recruitment Enhancement Program Committee; Sustainability Advisory Committee; Distance Learning Advisory Group (DLAG); University Assessment Committee (UAC); Faculty advisory committee for undergraduate Interdisciplinary and Environmental Studies programs; Colleges of Business and Sciences Dean 5-year Review Committees, Faculty Cluster Selection Committee.

#### **College (Arts & Sciences→Sciences, Graduate Studies, and Undergraduate Studies) Level:**

Chair of: College of Graduate Studies Interdisciplinary Faculty; College of Undergraduate Studies Director of Interdisciplinary; and Environmental Studies Visiting Lecturer search committees.

Member of: Astronaut Fellowship Award Committee; Honors in the Major Scholarship Committee; Information Technology Committee; Search Committee for Assistant Dean, Director of Graduate Studies; Grade Dispute Committee; Promotion and Tenure Committee; Teaching Incentive Program Committee; Junior Faculty Mentoring Program (mentored Anthropology, Chemistry, Communication, and Math faculty); Interdisciplinary Geospatial Analysis search committee (3 positions); Civil, Environmental, and Construction Engineering Department Chair review committee.

**Department Level:**

Chair of: Graduate Committee during the initiation of two Ph.D. programs (Biomolecular Sciences and Conservation Biology) and the certificate program in Conservation Biology; Institutional Effectiveness Committees for Graduate and General Education Programs (GEP); NSF-sponsored Faculty Institutes for Reforming Science Teaching (FIRST) program; Arboretum Committee; 7 faculty search committees; 2 staff hiring committees.

Member of: Graduate Committee; Search committees for 15 faculty positions including four from Civil, Environmental, and Construction Engineering; Undergraduate Curriculum Committee; Undergraduate Biology-Mathematics Curriculum Committee; Arboretum Committee; P&T Committee.

Mentor of: 3 assistant professors (Pedro Quintana-Ascencio, Betsy Von Holle, Kate Mansfield), 6 post-doctoral students, 8 doctoral students, 36 masters students, and dozens of undergraduate researchers (from Anthropology, Biology, Digital Media, Engineering Senior Design, Environmental Studies, EXCEL, Honors in Major, Molecular Biology and Microbiology, McNair Scholars, RAMP (Research and Mentoring Program), Burnett Honors College Scholar's program, and Visual Arts)

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**General Information**

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**Personal Data:**

Born August 24, 1963 and raised in Reading, Pennsylvania. Married to Teresa M. Riedel since 1988.

Father of Anthony Christopher (32, PepsiCo R&D Data Scientist) and Zachary Addison (26, medical school student). Grandfather of Louis Lynn (3 yr) and Elisa Teresa (11 mo).

**Additional Employment Experiences:**

8/87 - 12/93 - Graduate Research/Teaching Assistant, Department of Environmental Sciences, University of Virginia, Charlottesville, VA

8/86 - 6/87 - Middle and High School Long-term Substitute Teacher in life and physical sciences.  
Reading School District, Reading PA.

8/85 - 7/86 - Assistant Director, Emergency Homeless Shelter, Reading Urban Ministries, Reading, PA

5/85 - 7/85 - Peace Corps Fisheries Trainee, University of Oklahoma, Norman, OK

9/84 - 4/85 - Undergraduate Research Assistant, Department of Botany, Duke University, Durham, NC

**Hobbies:** Hiking, Kayaking, Mountain Biking, Reading Fiction, Rollerblading, Skiing, Snorkeling, Soccer, Swimming, Trail Running, Traveling