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RESEARCH INTERESTS

Conservation Social Science, Sustainable Development, Human-Wildlife Conflict, Community-Based Conservation, Ecology and Conservation of Mammalian Carnivores, Governance of Protected Areas, Social-Ecological Systems

EDUCATION

PhD, May 2017

Texas A&M University, College Station, Texas

Ph.D., Recreation, Parks and Tourism Sciences (RPTS) Department and Applied Biodiversity Science (ABS) Interdisciplinary Program received May 2017

Relevant Coursework: Applied Biodiversity Science I & II, Environmental Conflict Management, Community Development, Ecotourism, Political Ecology, Population Dynamics, History and Philosophy of Ecological Thought, Environmental Political Theory, Statistics I & II, Research Methods, Mathematical Logic, Cross-Cultural Communication, Amazon Field Course

GPA: 3.94/4.0

Advisor: Dr. Amanda Stronza

Bachelor's Degree, 2004

Rice University, Houston, Texas

B.A. in Biological Sciences and B.A. in History received May 2004

Relevant Coursework: Ecology, Conservation Biology, Animal Behavior, Plant Diversity, Biological Statistics, Advanced Ecology Laboratory, Animal Behavior Laboratory, Cell Biology, Organic Chemistry, Biochemistry, Differential Equations, Calculus

Advisor: Dr. Evan Siemann

WORK EXPERIENCE

University of Houston, Houston, TX, *August 2023-Present*

Instructional Assistant Professor, Honors College

Associate Director, Energy and Sustainability Minor

- Instructor of Record for three courses per long semester
- Assist the director of the Energy and Sustainability Minor in all aspects of program management

Texas A&M University, College Station, TX, *August 2019-Present*

Program Coordinator (PhD required), Ecology and Evolutionary Biology (EEB), Applied Biodiversity Science (ABS) Programs

Adjunct Lecturer, EEB and ABS programs

- Coordinate all aspects of the EEB and ABS Doctoral Programs
- Instructor for multiple program courses, including EEEL 610 and Mexico Field Course
- Served on all EEB and ABS committees (seminar, curriculum, recruiting, outreach, assessment, executive)
- Head of recruiting and outreach events such as recruiting weekend and Darwin Day (600 attendees)
- Primary academic advisor/mentor for all EEB PhD students

Miami University, Oxford, OH, August 2018-December 2019

Instructor, Project Dragonfly Master's Program

- Instructor for two sections of *BIO 631: Conservation Science and Community*, Fall 2018
- Instructor for two sections of *BIO 632: Biodiversity in the Age of Technology*, Spring 2019
- Field Instructor for *BIO 644: Baja Field Methods*, Summer 2019
- Instructor for *BIO 675: Inquiry and Action*, Fall 2019

Texas A&M University, College Station, TX, June-August 2018, June-August 2019

Assistant Lecturer, Recreation, Parks, and Tourism Sciences Department

- Instructor for *RPTS 301: Leisure and Outdoor Recreation in American*

British Broadcasting Corporation (BBC), Livingston, Montana, May-July 2008

Cameraman's Assistant, Yellowstone Film

- Assisted senior cinematographer in all aspects of wildlife documentary filmmaking, including research, location scouting, logistics planning, and assisting filming in remote locations throughout the greater Yellowstone ecosystem

Crouch Environmental Services, Inc., Houston, Texas, February 2008-May 2008

Associate Scientist, Environmental Consultant

- Performed a variety of biological consulting tasks, including wetlands delineations, threatened and endangered species surveys, wetlands mitigations, and ordinary high water mark determinations
- Researched, authored, and presented various professional reports summarizing results and recommendations of consulting projects

Ethiopian Wolf Conservation Programme, Bale Mountains N.P., Ethiopia, Sept. 2006 – May 2007

Volunteer Field Technician, Ethiopian Wolf Monitoring Team

- As manager of the monitoring team, performed behavioral observations and monitored the health and safety of critical Ethiopian wolf populations located in Bale Mountains National Park
- Completed critical management and logistical tasks, including establishing a project inventory, various IT issues, and staff oversight
- Ran a pilot project testing the coverage of oral rabies vaccinations on Ethiopian wolves
- Analyzed the data collected for the 2006 field season (using ArcGIS v. 9) and prepared the official annual report, which presents information such as home range size, pack composition, pup survival, etc.

Wildlife Conservation Research Unit, Oxford University, Research station located in Kimberley, South Africa, May 2006- Sept. 2006

Volunteer Field Technician, Ecology of Cape Foxes, Bat-Eared Foxes, and Black-Backed Jackals

- Performed a variety of field techniques in a remote location, including trapping and handling canids, radiotracking, scat transect surveys, and mapping coordinates with GPS units
- Recorded and analyzed data using MS Excel, ArcView 3.2 (with Spatial Analyst extension), and Locate II programs

United States Forest Service, Ponderosa, CA, May 2004 –Nov. 2005

Field Technician (2004), Crew Leader (2005), Sierra Nevada Forest Carnivore Monitoring Project

- Managed a crew of 10 employees performing a variety of different survey protocols
- Performed independently to ensure crew's successful completion of all field and administrative tasks
- Responsible for the accurate collection and storage of data throughout the field season
- Trained crew members in the various field and office skills required for the project

African Conservation Trust, Ghanzi, Botswana, *May 2003 – August 2003*

Volunteer Intern, *Carnivore Ecology Project*

- Working individually and as part of a group, performed a variety of research techniques including vegetation mapping, sandtrapping, GIS database mapping, and small mammal trapping in a remote location
- Planned both scientific aspects such as research design and logistical aspects such as transportation and supply shopping

Rice University Ecology Department, Houston, TX, *December 2003-May 2004 (5-10 hrs/week)*

Laboratory Technician, *Dr. Evan Siemann's Ecology Lab*

- Performed a variety of independent lab techniques assisting with various ecology research projects
- Participated in weekly lab discussions of current research practices and current journal reviews

National Institute of Health, Research Triangle, NC, *May 2002 - August 2002(40 hrs/week)*

Laboratory Technician, *Dr. Darryl Zeldin's Asthma research group*

- Individually performed lab techniques such as ELIZA's and dust collections in the lab setting
- Worked as part of the lab team to discuss experimental procedures and results as well as collect data in the field
- Took field samples from apartments and day cares in North Carolina, interacting with various members of the public
- Gave an official presentation of the research results at the end of the internship

Rice University, Houston, TX, *August 2000 – May 2004 (10-20 hrs/week)*

Intramural Supervisor, Rice Intramural Department

- Supervisor responsible for up to 5 other employees, as well as safety and logistics of Intramural department
- CPR and First Aid Certified

ACADEMIC EXPERIENCE

Teaching Experience

- Fall 2023-Present: Instructor of Record, ENRG 3310: Introduction to Energy and Sustainability
- Fall 2019-Fall 2023: Instructor of Record, EEEL 610: First-year graduate seminar (1 credit)
- Spring 2020: Instructor, EEB Mexico Field Course
- Fall 2016-Summer 2017, Summer 2018: Instructor of Record, RPTS 301: Leisure and Outdoor Recreation in American Culture (online sections)
- Fall 2011, Fall 2013: Instructor of Record, RPTS 460: Nature, Values, and Protected Areas
- Fall 2012: Teaching Assistant, RPTS 304 (Administration in Recreation and Parks) & RPTS 311 (Programming in Recreation and Parks)
- Fall 2010: Teaching Assistant, RPTS 460: Nature, Values, and Protected Areas
- 2007-2008: Tutor, Rice Tutors: Individually tutored over 20 high school students in upper level math and science courses

Selected Seminars, Presentations and Guest Lectures

- Spring 2023: "Not-so Irrational Actors: How basic Precautionary Principle and Risk of Ruin principles can enhance discourse on local stakeholder behaviors in Botswana," Guest Lecture for ECCB 689 (Human-Wildlife Conflict)
- Spring 2020, 2021, 2022: "Misfit Neighbors: Consequences of Lions and Livestock Sharing a Boundary in Botswana," Guest Lecture in ECCB 689 (Human-Wildlife Conflict)
- Spring 2016: "Lions, Livestock, and Livelihoods: Understanding Human-Predator Relationships in Botswana," panel member at Society for Applied Anthropology (SfAA) National Meeting
- Fall 2011: "A Fence Through Human-Predator Conflict: How a Veterinary Fence Has Shaped Human-Predator Interactions in the Okavango Delta," Presented at [TAMU Applied Biodiversity Science Program Cross-Pollination Seminar](#)
- Spring 2011: "Wolves and Wolves: Lessons from Two Mammalian Carnivore Conservation Projects," Guest Lecture for [Society of Conservation Biology \(SCB\), Texas A&M Chapter](#)
- Fall 2010: "Mercury in the Madre de Dios," Presented at [TAMU Applied Biodiversity Science](#)

Program Cross-Pollination Seminar with fellow ABS trainee Katie Roach

- Fall 2010: “The Nature of Nature: Social Constructions and Conservation,” Guest Lecture for RPTS 201 (Intro to Recreation and Parks)

Selected Publications

- **Jacobsen, N.F.** 2017. Lions, Livestock, and Livelihoods: Understanding Human-Predator Relationships in Botswana. PhD. Dissertation.
- Roach, K.A., **N.F. Jacobsen**, C.V. Fiorello, A. Stronza, and K.O. Winemiller. 2013 Gold mining and mercury bioaccumulation in a floodplain lake and main channel of the Tambopata River, Perú. *Journal of Environmental Protection* 4(1): 51-60.
- Kamler, J. F., U. Stenkewitz, U. Klare, **N. F. Jacobsen**, and D. W. Macdonald. 2012. Resource partitioning among cape foxes, bat-eared foxes, and black-backed jackals in South Africa. *Journal of Wildlife Management* 76(6), 1241-1253.
- Kamler, J. F., **N. F. Jacobsen**, and D. W. Macdonald. 2008. Efficiency and safety of Soft Catch traps for capturing black-backed jackals and excluding non-target species. *South African Journal of Wildlife Research* 38.

Project Reports

- **Jacobsen, N.F.** 2007. Ethiopian Wolf Demography Report 2006-2007. Ethiopian Wolf Conservation Programme, part of the Wildlife Conservation Research Unit (WildCRU), Oxford University. (available upon request)

Documentary Films

- **Yellowstone: Battle For Life.** 2009. Produced by BBC Natural History Unit. Field Assistant (credited) for episode 2: “Summer”.

Field Research

- **Botswana** (Okavango Delta). 2013 (8 months)
Topic: *Understanding Human-Predator Relationships in Botswana (dissertation research)*
- **Botswana** (Okavango Delta). 2012 (8 months)
Topic: *Understanding Human-Predator Relationships in Botswana (dissertation research)*
- **Botswana** (Okavango Delta). 2011 (3 months)
Topic: *Understanding Human-Predator Relationships in Botswana (preliminary research)*
- **Peru** (Madre de Dios). 2010 (3 months)
Topic: *Mercury in Madre de Dios: Effects of Mercury Bioaccumulation on Humans and Giant Otters*
- **Peru** (Madre de Dios). 2009 (3 months)
Topic: *Giant Otter (Pteronura brasiliensis) Monitoring and Research*

Conferences/Workshops Organized

- **2020, 2021 (virtual), 2023 Darwin Day Outreach Event:** “Darwin Day: A celebration of all things biology” is the premier outreach event for the Texas A&M EEB program. Over 300 attendees join EEB and explore 30+ booths presenting displaying research, outreach, and educational activities related to research and conservation in the College Station/East Texas area. Peter and Rosemary Grant (2020) and Johnathon Graves (2021) were past plenary speakers.
- **2019, 2020 (virtual), 2022 Open Source for Open Science Workshop:** OSOS is a free workshop aimed to familiarize participants with selected open source software and programming tools to be able to conduct quantitative analysis and statistical methods for scientific inquiry. Over 150 participants attended over three days and nine sessions
- **2010 Ecological Integration Symposium:** Understanding Patterns and Processes Across Scales. Graduate student-organized conference that brought in 6 nationally recognized scholars from the various ecology and conservation fields as well as hosting over 50 student posters and presentations. <http://theeis.tamu.edu/past-symposia/attachment/2010/>

ACTIVITIES AND HONORS

NSF-IGERT Applied Biodiversity Science Trainee, Texas A&M University, 2009-2016

Regents Fellowship, Texas A&M University, 2008

Certificate of Merit Recipient, US Forest Service, 2005

J.R. Barker Award Winner, Rice University, 2003

National Merit Scholar, 2000