**CATHERINE F. FROCK**

*~ behavioral landscape ecology and conservation biology ~*

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***CAREER INTERESTS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*  
- Conservation research:** landscape ecology, movement ecology, animal behavior, climate change

- **Science communication:** layout and design, public marketing, presentations/booths **- Environmental outreach:** underprivileged groups, children, informal settings

***REFERENCES\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

Bob McCleery [ramccleery@ufl.edu](mailto:ramccleery@ufl.edu) 352-846-0566

Mike Conner [mconner@jonesctr.org](mailto:mconner@jonesctr.org) 229-734-4706

Toby Bakos [tobybakos@fs.fed.us](mailto:tobybakos@fs.fed.us) 907-772-5917

***EDUCATION\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***Jan. 2016- **M.S. in Wildlife Ecology and Conservation (WEC)**

Dec. 2022 **University of Florida (UF) – Gainesville, FL**

Co-Advisers: Dr. Robert McCleery – 352-846-0566 (UF),  
Dr. L. Mike Conner – 229-734-4706 (Jones Center at Ichauway)

Thesis: Effects of Global Positioning System tracking and remote sensing data on

understanding of movement ecology of fox squirrels (*Sciurus niger*)

Aug. 2013– **M.S. in Zoology**  
Dec. 2015 **University of Wisconsin-Madison (UW-Madison) – Madison, WI**

Adviser: Dr. Monica Turner - 608-262-2592

Thesis: Microhabitat conditions rather than landscape patterns affect post-dispersal seed

removal in burned and unburned lodgepole pine (*Pinus contorta* var. *latifolia*) forests

Aug. 2005- **B.S. in Biological Sciences, graduated summa cum laude**

Dec. 2009 **North Carolina State University (NCSU) – Raleigh, NC**

Concentration: Ecology, Evolution, and Conservation Biology

Adviser: Dr. Nick Haddad

Honors thesis: The effects of human landscape modification on amphibian movement and

habitat choice

***PUBLICATIONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

Braun de Torrez, E.C., **Frock, C.F.**, Boone, W.W., Sovie, A.R., and R.A. McCleery. 2021. Seasick: Why value ecosystems severely threatened by sea-level rise? *Estuaries and Coasts* 44:899-910.

<https://doi.org/10.1007/s12237-020-00850-w>

Sovie, A.R., D.A. Greene, **C.F. Frock**, A.D. Potash, and R.A. McCleery. 2019. Ephemeral temporal partitioning may facilitate coexistence in competing species. *Animal Behaviour* 150: 87-96. <https://doi.org/10.1016/j.anbehav.2019.01.020>

**Frock, C.F.** and M.G. Turner. 2018. Microhabitat rather than landscape pattern affects post-dispersal seed removal by rodents in burned and unburned lodgepole pine forests. *Landscape Ecology* 33(11): 1895-1909. <https://doi.org/10.1007/s10980-018-0717-x>

***MANUSCRIPTS (underline = undergraduate mentees)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

**Frock, C.F.**, R.A. McCleery, and L.M. Conner. Next-generation remote sensing data at multiple spatial scales improves understanding of small mammal habitat selection. In preparation for *Movement Ecology.*

**Frock, C.F.**, R.A. McCleery, and L.M. Conner. GPS sampling schedules affect space use inferences for a small mammal species. In preparation for *Movement Ecology.*

A.D. Potash, **Frock, C.F.**, W.W. Boone IV, L.M. Conner, and R.A. McCleery. Should you put a ring on it? An untested technique to identify characteristic spatial scale(s) of ecological data. In preparation for *Landscape Ecology.*

**Frock, C.F.**, A.D. Potash, S.J. Ryburn, S. Shiver, R.A. McCleery, and L.M. Conner. Effects of an extreme weather event on the movement behavior of a GPS-collared small mammal. In preparation for *Journal of Mammalogy.*

***GRANTS AND AWARDS (\* = declined)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***2020 African Safari Club of Florida Scholarship $1,000  
2020 UF Doris Lowe and Earl and Verna Lowe Scholarship $1,000  
2020 UF Courtney A. Tye Memorial Graduate Student Scholarship $2,000

2019 UF Graduate Student Council Travel Grant $350

2019 UF WEC Department Travel Award $250

2018 UF Graduate Student Council Travel Grant $350

2018 UF WEC Department Travel Award $250

2013–2018 NSF Graduate Research Fellowship Program ~$132,000

2016 UF WEC Department Travel Award $250

2016 UF Institute of Food and Agricultural Sciences Travel Award $250

2015 UW-Madison John Jefferson Davis Travel Award\* $600

2015 U.S. Agency for International Development Research and Innovation Fellowship\* $11,500

2015 NSF Graduate Research Opportunities Worldwide Award\* $5,000

2014 UW-Madison Department of Zoology Graduate Student Summer Research Award $2,500

2009 NSF Research Experience for Undergraduates at the University of Alaska Southeast $4,950

2007-2009 Howard Hughes Research Scholars Program at NCSU $14,620

2008 Phi Kappa Phi Study Abroad Scholarship $1,000

2008 NCSU Study Abroad Office Scholarship $1,750

2005 State Employees Credit Union Foundation “People Helping People” Scholarship $10,000

***TECHNICAL REPORTS AND MEMOS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*  
Frock, C**. and S. Euing. U.S. Fish and Wildlife Service. 2011. Lange’s metalmark butterfly annual survey report. *Memo to the files.*

**Frock, C**. and S. Euing. U.S. Fish and Wildlife Service. 2011. Contra Costa wallflower annual survey report. *Memo to the files.*

**Frock, C**. and S. Euing. U.S. Fish and Wildlife Service. 2011. Antioch Dunes evening primrose annual survey report. *Memo to the files.*

Thurgate, N. Y., W. Fields, N. Haddad, and **C. Frock**. 2009. Status and ecology of the eastern tiger salamander and Carolina gopher frog on Fort Bragg, NC. *Final report to the Army.* *33 pp.*

**Frock, C.** 2009. The effects of human landscape modification on amphibian movement and habitat choice. *Howard Hughes Research Scholars Program thesis. 12 pp.*

Thurgate, N. Y., W. Fields, N. Haddad, **C. Frock,** J. MacAllister, and M. Chesser. 2008. Status and ecology of the eastern tiger salamander and Carolina gopher frog on Fort Bragg, NC. *Final report to the Army. 30 pp.*

***MANUSCRIPT REVIEWS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***Urban Naturalist

***PROFESSIONAL RESEARCH AND FIELD EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

Oct. 2015 **Field Course Participant** *Sapelo Island, GA*

University of Wisconsin, Madison – Madison, WI. 40 hours per week.

- Designed an observational study to assess multiple biotic stressors on smooth cordgrass

- Collected data for an experiment on snail aggregation on smooth cordgrass plants

May-Aug. 2013 **Biological Science Technician (Wildlife) - Crew Leader** *Sierra National Forest*  
U.S. Forest Service – Oakhurst, CA. 40 hours per week.  
GS-0404-06  
- Conducted multi-taxa small mammal trapping research for the Pacific Southwest Research

Station to understand wildlife responses to fuels reduction treatments in conifer forests

- Scheduled, supervised, trained a team of 3-10 technicians; performed data error proofing

Oct. 2012 **Contractor: Bureau of Land Management** *Panoche, CA and Coalinga, CA*

University of California, Berkeley – Berkeley, CA

- Conducted mark-recapture small mammal surveys; wrote survey report of results

- Performed ground-truthing of survey sites; established, documented trapping grids

Oct. 2012 **Contractor: Naval Air Weapons Station China Lake**

TOSS Inc. – Ridgecrest, CA. 40 hours per week.

- Trapped, handled endangered Mohave Tui Chubs to collect population survey data  
- Performed habitat restoration of channels: cattail removal, transplanting of native species

Apr.-Sep. 2012 **Lab Assistant I** *Carrizo Plain National Monument*

University of California, Berkeley – Berkeley, CA. 40 hours per week.

- Performed wildlife surveys for long-term study to evaluate grazing as a management tool

- Conducted small mammal mark-recaptures, bird point counts, reptile transect surveys,

spotlighting surveys, insect pitfall trapping, wildlife camera trapping, gopher trapping,

vegetation sampling  
- Assisted in training volunteers and interns in data collection, animal handling, insect

identification

Jan.-Mar. 2012 **Wildlife Management Intern** *The Farallon Islands*

U.S. Fish and Wildlife Service – Fremont, CA. 40 hours per week.

- Controlled invasive plants by hand-pulling, use of hand tools, herbicide backpack sprayers

- Mapped treated areas through intensive hiking in restricted use region of island

- Participated in wildlife surveys including: Burrowing Owl surveys and pellet searches,

Cassin’s Auklet nest box checks, salamander and invertebrate cover board surveys

Apr. 2011- **Field Biology Intern** *San Francisco Bay area*

Jan. 2012 U.S. Fish and Wildlife Service – Fremont, CA. 40 hours per week.  
 *-* Surveyed and/or monitored special status birds, plants, amphibians, mammals, insects

- Worked independently, served as acting biologist for two Refuges during hiring transition

- Independently conducted monitoring surveys for shorebird populations on coastal beaches

- Trained interns and volunteers in identification and surveys of endangered plants and insects

- Prepared official reports of endangered species surveys; updated Access databases

Oct. 2010- **Volunteer: Edgewood County Park and Natural Preserve**

May 2011 Edgewood Weed Warriors - Redwood City, CA. 2 hours per week.

- Participated in the habitat restoration program; identified, removed invasive exotic plants

- Completed Wildflower Walk Docent training to lead plant walks for the public

Nov. 2010- **Volunteer/Fish Data Collection Intern** *San Francisco Bay area*

Mar. 2011 Marine Science Institute – Redwood City, CA. 2 hours per week.

- Identified with a dichotomous key, measured, counted fish caught by trawl nets from the

*R/V Robert G. Brownlee* for a research database monitoring fish populations in South San

Francisco Bay

- Assisted with science education programs and projects including: Discovery Voyages,

identification of seashells for a teaching display, writing newsletter articles, Thriva and

Exceed data entry/transfer

May-Sep. 2010 **Biological Science Technician (Wildlife)** *Tahoe National Forest*

U.S. Forest Service – Camptonville, CA. 40 hours per week.  
 GS-0404-05

- Managed/verified California Spotted Owl survey data in a 27,000-acre study area

- Performed spot calling broadcast protocol-level surveys with electronic recordings for

Northern Goshawks, Willow Flycatchers, and California Spotted Owls; approximated

distance and location  
- Conducted protocol-level surveys and/or monitoring of Great Gray Owls, California red-

legged frogs, Western Pond Turtles, quaking aspen stands; surveyed various bat species

at mine shafts

- Completed aquatic organism passage assessments at road-stream crossings, watershed

restoration

- Received United States Department of Agriculture Certificate of Appreciation

Aug. 2007- **Research and Laboratory Technician** *Fort Bragg military installation*

May 2010 NCSU Biology Department – Raleigh, NC. 20 hours per week.

- Designed, developed protocols, oversaw studies on the effects of landscape modifications on

movement behavior and habitat choice of multiple common and special status amphibians   
- Processed captures from pitfall traps; applied fluorescent dye powder for tracking method

- Observed nocturnal movement through forests using dye powder and ultraviolet lights

- Recruited, scheduled, trained volunteers in animal handling and data collection protocols

- Gathered, analyzed data; annually prepared graphs, summaries of results for grant reports  
- Assisted with PIT tagging/photo ID surveys, drift fence maintenance, data entry

May 2007, **Field Technician** *Savannah River Site, SC*

2008, 2009; NCSU Zoology Department - Raleigh, NC. 40 hours per week.

Mar. 2010

- Identified, collected, transplanted plants for ecological experiments with habitat corridors

- Gathered vegetative data on herbivory rates, disease damage, plant growth, seed viability

- Planted and watered plants in preparation for ecological experiments

May-Aug. 2009 **Undergraduate Researcher: NSF REU Program** *Southeast Alaska*

University of Alaska Southeast – Juneau, AK. 40 hours per week.  
- Managed project on disease ecology of chytrid fungus affecting boreal toads

- Collected chytrid swab samples, environmental data from wilderness, urban environments

- Surveyed historic breeding sites, obtained tadpole tail clips; performed DNA extractions

- Assisted undergraduates with research projects: seining for sculpin in glacial streams;

counting, identification of species collected in crab pots; alpine vegetation sampling

May-Aug. **Field Technician in Conservation Biology** *Fort Bragg military installation*

2007, 2008 NCSU Zoology Department - Raleigh, NC. 40 hours per week.

- Conducted monitoring surveys, mark-recapture, release and movement observational studies

to determine population dynamics, behavior of endangered and common wetland butterflies

- Assisted with data entry and management, captive breeding of endangered butterflies

May-Jun. 2008 **Study Abroad Program Participant** *Namibia*

NCSU Study Abroad Office – Raleigh, NC. 40 hours per week.

- Camped outdoors, traveled extensively to learn about savannah, desert, and wildlife ecology

- Installed, maintained, processed captures from pitfall traps; identified beetles and insects

- Conducted vegetation sampling, tree belt transect surveys to determine plant densities

- Gathered, analyzed, presented environmental data on desert, riverbed, gravel plains

ecosystems at the Gobabeb Training and Research Centre to staff, program participants

- Recorded mammal population demographics at Etosha National Park, Cheetah Conservation

Fund

***TEACHING AND MENTORING EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

Spring 2020, Teaching Assistant

2019, 2018 Wildlife Techniques (WIS 4945) undergraduate course - WEC, UF, Gainesville, FL

- Co-developed lectures, graded quizzes, assignments, exams, and semester projects  
- Led hands-on, field-based labs including a weekend camping field trip

Fall 2018- Mentor

Spring 2019 4 UF undergraduates and 1 high school student – Gainesville, FL

- Trained volunteers in data collection of fox squirrel behavioral observations from videos

Fall 2017 Guest lecturer

Mammalogy undergraduate course - WEC, UF, Gainesville, FL

- Presented research study, design, and methods to students  
- Demonstrated small mammal capture and GPS collaring techniques

Fall 2016 Guest lecturer

Wildlife Techniques (WIS 4945) undergraduate course - WEC, UF, Gainesville, FL

- Presented research study, design, and methods to students  
- Demonstrated small mammal capture and GPS collaring techniques

Fall 2016 Guest lecturer

Mammalogy course - Jones Center at Ichauway, Newton, GA

- Presented research study, design, and methods to students  
- Demonstrated small mammal capture and GPS collaring techniques

Fall 2015 Lab Instructor

Introductory Biology (BIO 152) undergraduate course - Zoology Department, UW-Madison  
- Lectured to 3 lab sections; graded quizzes, exams, and lab assignments

- Instructed and led students in lab assignments; managed lab equipment

Jul. 2015 Co-Leader

Science Club - Adult Role Models in Science Program, Biology Outreach Club, Madison, WI

- Co-developed curriculum and activities around the theme “Science in the Outdoors”

- Led 14 children (3rd-5th graders) for 1-hour weekly lessons

Apr. 16, 2015 Guest Instructor

UW-Preschool Laboratory – Madison, WI

- As a Science Communication for Ecologists graduate seminar student, co-developed and co-

led a hands-on lesson about animal development for 20 preschool children

Sep.-Dec. 2014 Mentor

Introductory Biology (BIO 152) Independent Project undergraduates - UW-Madison

- Trained, advised two students on literature reviews, lab protocols, data processing/entry

- Edited, collaborated on drafts of project proposals, reports, posters, and oral presentations

Jan.-Apr. 2011 Instructor

Mad Science of the Bay Area – San Francisco Bay area, Newark, CA

- Conducted demonstrations, hands-on activities illustrating how science affects the world

around us using inquiry-based discovery methods

- Led children ages 3-12 for after-school programs, in-class lessons, and special events

Jan.-May 2010 Teaching Assistant

Ecology, Evolution, and Behavior course - Biology Department, NCSU, Raleigh, NC

- Graded problem sets, extra credit assignments, exams for 200+ student lecture class

- Attended lectures; assisted in development of problem sets and exam questions

***PROFESSIONAL ORAL PRESENTATIONS (\* indicates presenter)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

Sovie, A.R., D.U. Greene\*, **C.F. Frock**, A.D. Potash, R.A. McCleery. April 10-12, 2019. Ephemeral temporal partitioning may facilitate coexistence in competing species. The Florida Chapter of The Wildlife Society. 2019 Spring Conference. Melbourne, FL.

Sovie, A.R., D.U. Greene\*, **C.F. Frock**, A.D. Potash, R.A. McCleery. 2018. Ephemeral temporal partitioning may facilitate coexistence in competing species. The Wildlife Society. 2018 Annual Conference. Cleveland, OH.

**Frock, C.F.\***, R.A. McCleery, and M. Conner. Aug. 9, 2018. Effects of GPS sampling frequency and timing on space use inferences of a small mammal species. Ecological Society of America, New Orleans, LA. *20 minutes.*

**Frock, C.F.\*** and M.G. Turner.Oct. 18, 2016. Microhabitat conditions rather than landscape patterns affect post-dispersal seed removal in burned and unburned lodgepole pine forests. The Wildlife Society’s 23rd Annual Conference, Raleigh, NC. *20 minutes.*

Fields, W.R.\*, **Frock, C.,** Haddad, N.M., and N. Thurgate. Aug. 9, 2011. Testing assumptions about amphibian movement behavior with field experiments. 96th Annual Ecological Society of America Annual Meeting, Austin, TX.

**Frock, C.\*** Nov. 7, 2009. Movement studies of the impacts of human disturbance on amphibian habitat quality. 32nd Annual Fall Conference and General Meeting of the North Carolina Herpetological Society, Raleigh, NC. *20 minutes.*

***PROFESSIONAL POSTER PRESENTATIONS (\* indicates presenter)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

**Frock, C.F.\***, R.A. McCleery, and L.M. Conner. Mar. 12-13, 2019. GPS sampling frequency and timing affect space use inferences for a small mammal species. Movement Ecology of Animals Gordon Research Conference, Barga, Lucca, Italy.

**Frock, C.F.\***, R.A. McCleery, and L.M. Conner. Mar. 2, 2019. GPS sampling frequency and timing affect space use inferences for a small mammal species. Movement Ecology of Animals Gordon Research Seminar, Barga, Lucca, Italy.

Hudgens, B.\*, N. Haddad, W. Fields, N.Y. Thurgate, **C. Frock**, D. Kuefler, B. Morris, and T. Jobe. Jul. 6, 2010. Using movement behaviors to assess dispersal routes in complex landscapes.24th Annual International Congress for Conservation Biology, Edmonton, Alberta, Canada.

**Frock, C.\*** Jul. 4, 2010. The effects of human landscape modification on the movement behavior of common and rare amphibian species. 24th Annual International Congress for Conservation Biology, Edmonton, AB.

Hudgens, B.\*, N. Haddad, W. Fields, N. Y. Thurgate, **C. Frock**, D. Kuefler, T. Jobe. Dec. 1, 2009. Using movement behaviors to determine connectivity in complex landscapes. Partners in Environmental Technology Technical Symposium and Workshop, Washington, D.C., U.S.A.

***OTHER ORAL PRESENTATIONS (\* indicates presenter)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*  
Frock, C.F.\***.Nov. 14, 2019. Can invisible light advance our understanding of animal habitat selection? Forest Ecology class of ~30 undergraduates, UF, Gainesville, FL. *30 minutes. Invited speaker.*

**Frock, C.F.\*** Sept. 26, 2019. A study in behavioral landscape ecology: forests, fires, small mammals, and seeds. Seminar for ~30 biology undergraduates and faculty, Lenoir-Rhyne University, Hickory, NC. *45 minutes. Invited speaker.* **Frock, C.F.\***.Nov. 9, 2017**.** Behavioral landscape ecology of fox squirrels: implications for animal conservation in a changing world. Forest Ecology class of ~30 undergraduates, UF, Gainesville, FL. *20 minutes. Invited speaker.*

**Frock, C.F.\*** Dec. 17, 2015. A study in behavioral landscape ecology: Forests, fires, small mammals, and seeds. Master’s defense talk, UW-Madison, Madison, WI. *20 minutes.*

**Frock, C.\*** May 7, 2015. Spatial variation in animal behavior:causes and effects. “12 Ecological Research Stories in 1 Hour” by Science Communication For Ecologists Seminar Graduate Students, UW-Madison, Madison, WI. *5 minutes.*

**Frock, C.\*** Mar. 13, 2014. Could granivory influence local plant recruitment patterns in a fire-dominated landscape? Student Association for Fire Ecology (UW-Madison chapter), Madison, WI. *5 minutes.* **Frock, C.\*** Aug. 5, 2009. Distribution and infection patterns of the chytrid fungus affecting boreal toads of southeast Alaska. REU Student Research Seminar, Juneau, AK. *20 minute*s.

**Frock, C.\*** Mar. 20, 2009. The effects of habitat management on amphibian movement behavior. Howard Hughes Research Scholars Program Seminar, Raleigh, NC. *15 minutes.*

**Frock, C.\*** Dec. 20, 2007. The effects of habitat management on salamander movement behavior. Howard Hughes Research Scholars Program Seminar, Raleigh, NC. *15 minutes.*

***OTHER POSTER PRESENTATIONS (\* indicates presenter)\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*  
Frock, C.**\*, A. Potash\*, and E. Webb\*. Nov. 28, 2017. To donut or not to donut: a comparison of methods for analyzing spatial scale. Landscape Ecology project poster session, University of Florida, Gainesville, FL.

Potash, A\*., Conner, L. M., McCleery, R. A., **Frock, C.** 2017. Fox Squirrel (*Sciurus niger*) behavioral response to multiple predators. Joseph W. Jones Center Scientific Advisory Committee. Newton, GA.  
 **Frock, C.\*** Apr. 1, 2008. How do wildfires affect the terrestrial movement behavior of amphibians? 17th Annual NC State University Undergraduate Research Symposium, Raleigh, NC.

Cash, J.D.\*, **Frock, C.F.\***, Henry, A.B., Herbold, M.A., Maynard, B.P., Morgan, S.M., Sheikh, A.T., and S.L. Wray. Apr. 17, 2007. What about global warming? Learning experiences in topics related to global warming. 9th Annual NC State University & College of Agriculture and Life Sciences Undergraduate Teaching Symposium, Raleigh, NC.

***WORKSHOPS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***Jan. 2018 Conservation Leaders for Tomorrow: <https://clft.org/> - Mansfield, GA (~$1,000 value)

***SELECTED SCIENCE COMMUNICATION AND OUTREACH EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***Apr. 3, 2019 Presenter, “3 Ways That Technology Can Help Scientists Learn About Squirrel Behavior,”

4th Annual Suds and Science hosted by the UF’s Wildlife Graduate Student Association, Cypress and Grove Brewery – Gainesville, FL

Jun. 13, 2018 Instructor, “Animal Foraging” 2-hour lesson, Wildwood Girl Scouts Camp – Wildwood, FL

Jun. 2018- Member, Natural Resources Diversity Initiative, UF  
present

Jan. 2014- Member, Biology Outreach Club, UW-Madison

Dec. 2015

Sep. 2014- Outreach Committee Co-Chair, Zoology Graduate Student Organization, UW-Madison

May 2015

- Trained, organized volunteers; participated in three public outreach events

- Applied for and awarded $200 to improve, develop educational outreach booth materials

Mar. 3, 2009 Speaker, “Studying abroad in Namibia”, Valley Springs Middle School – Asheville, NC

Dec. 2007- Graphic Designer and Newsletter Editor: *The Leaflet*, Wolfpack Environmental Student

May 2008 Association, NCSU

Aug. 2007- Co-Founder, Secretary, Webmaster, Wolfpack Environmental Student Association, NCSU

May 2008

Apr. 15, 2008 Invited Speaker, “Fire & fluorescent dye: how habitat management techniques affect

amphibian movement behavior.” *60-minute talk*. Encore Program for Lifelong Enrichment

***SELECTED UNIVERSITY ACTIVITIES AND SERVICE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***

Jan. 2016- Member, Wildlife Graduate Students Association, UF

present

Jul. 2016- Travel Grants Committee Chair, Wildlife Graduate Students Association, UF

Jun. 2018

Sep. 2013- Member, Wisconsin Ecology, UW-Madison

Dec. 2015

Feb. 2014- Secretary, Student Association for Fire Ecology – UW-Madison chapter, UW-Madison

May 2015

Dec. 2013- Representative, Zoology Graduate Student Organization, UW-Madison

May 2014

- Led a Graduate Student Informal Seminar on “Non-academic vs. academic careers”

- Staffed an exploration station “Diversity in the Animal Kingdom” (April 5, 2014) at UW-

Madison Science Expeditions

Sep. 30, 2013 Workshop Leader, “NSF Application Overview and Panel”, Graduate Student  
& May 5, 2014 Professional Development, UW-Madison

***SELECTED SKILLS*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Software: R, RStudio, QGIS, ArcGIS, PostgreSQL, ENVI, MATLAB, SAS  
Driving: 4WD, manual transmission  
 ***SELECTED CERTIFICATIONS\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_***- 15-Person Van Training Course (UF)

- Defensive Driving Course 9th Edition (USDA)

- Heartsaver First Aid CPR AED, American Heart Association

- Wilderness First Aid (WFA)