

CATHERINE F. FROCK

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RESEARCH INTERESTS

behavioral landscape ecology, conservation biology, movement ecology, animal personalities, climate change, interspecies interactions, montane and forest ecosystems, human impacts on wildlife, habitat connectivity

EDUCATION

- 2016-present **University of Florida (UF) – Gainesville, FL**
 Ph.D. in Wildlife Ecology and Conservation (*in progress*)
 Co-Advisers: Dr. Robert McCleery and Dr. Mike Conner
 Dissertation: An integrative study in the behavioral landscape ecology of Sherman's fox squirrels: implications for animal conservation in a changing world
- 2013–2015 **University of Wisconsin-Madison (UW-Madison) – Madison, WI**
 M.S. in Zoology
 Adviser: Dr. Monica Turner
 Thesis: Microhabitat conditions rather than landscape patterns affect post-dispersal seed removal in burned and unburned lodgepole pine (*Pinus contorta* var. *latifolia*) forests
- 2005-2009 **North Carolina State University (NCSU) – Raleigh, NC**
 B.S. in Biological Sciences, graduated summa cum laude
 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

Frock, C.F. and M.G. Turner. Microhabitat rather than landscape pattern affects post-dispersal seed removal by rodents in burned and unburned lodgepole pine forests. In review at *Landscape Ecology*.

Braun de Torrez, E.C., **C.F. Frock**, W.W. Boone IV, A.R. Sovie, R.A. McCleery. Seasick: Why value ecosystems severely threatened by climate change? In review at *Biological Conservation*.

Sovie, A.R., Greene, D.A., **Frock, C.F.**, Potash, A.D., and R.A. McCleery. Ephemeral temporal partitioning may facilitate coexistence in competing species. In preparation for *Animal Behaviour*.

RESEARCH-RELATED GRANTS AND AWARDS

2018	UF Graduate Student Council Travel Grant	\$350
2018	UF Wildlife Ecology and Conservation (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

TEACHING AND MENTORING EXPERIENCE

Jan.-Apr. 2018 Teaching Assistant: Wildlife Techniques (WIS 4945), WEC, UF – Gainesville, FL

Aug.-Dec. 2015 Lab Instructor, Introductory Biology (BIO 152), Zoology Department, UW-Madison

Jul. 2015 Co-Leader: Science Club, Adult Role Models in Science Program – Madison, WI

Apr. 16, 2015 Guest Instructor, UW-Preschool Laboratory – Madison, WI

Sep.-Dec. 2014 Mentor: 2 Introductory Biology (BIO 152) Independent Project students, UW-Madison

Jan.-Apr. 2011 Instructor, Mad Science of the Bay Area - Newark, CA - San Francisco Bay area

Jan.-May 2010 Teaching Assistant: Ecology, Evolution, and Behavior, NSCU Biology Department

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 EXPERIENCE

May-Aug. 2013 **Biological Science Technician (Wildlife) - Crew Leader** *Sierra National Forest*
U.S. Forest Service – Oakhurst, CA

Oct. 2012 **Contractor: Bureau of Land Management** *Panoche, CA and Coalinga, CA*
University of California, Berkeley – Berkeley, CA

Oct. 2012 **Contractor: Naval Air Weapons Station China Lake**
TOSS Inc. – Ridgecrest, CA

Apr.-Sep. 2012	Lab Assistant I University of California, Berkeley – Berkeley, CA	<i>Carrizo Plain National Monument</i>
Jan.-Mar. 2012	Wildlife Management Intern U.S. Fish and Wildlife Service – Fremont, CA	<i>The Farallon Islands</i>
Apr. 2011- Jan. 2012	Field Biology Intern U.S. Fish and Wildlife Service – Fremont, CA	<i>San Francisco Bay area</i>
Oct. 2010- May 2011	Volunteer: Edgewood County Park and Natural Preserve Edgewood Weed Warriors - Redwood City, CA	
Nov. 2010- Mar. 2011	Volunteer/Fish Data Collection Intern Marine Science Institute – Redwood City, CA	<i>San Francisco Bay area</i>
May-Sep. 2010	Biological Science Technician (Wildlife) U.S. Forest Service – Camptonville, CA	<i>Tahoe National Forest</i>
Aug. 2007- May 2010	Research and Laboratory Technician NCSU Biology Department – Raleigh, NC	<i>Fort Bragg military installation</i>
May 2007, 2008, 2009; Mar. 2010	Field Technician NCSU Zoology Department - Raleigh, NC	<i>Savannah River Site, SC</i>
May-Aug. 2009	Undergraduate Researcher: NSF REU Program University of Alaska Southeast – Juneau, AK	<i>Southeast Alaska</i>
May-Aug. 2007, 2008	Field Technician in Conservation Biology NCSU Zoology Department - Raleigh, NC	<i>Fort Bragg military installation</i>
May-Jun. 2008	Study Abroad Program Participant NCSU Study Abroad Office – Raleigh, NC	<i>Namibia</i>

PROFESSIONAL ORAL PRESENTATIONS (* indicates presenter)

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)

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, AB.

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.

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.

OTHER ORAL PRESENTATIONS (* indicates presenter)

Frock, C.F.* Nov. 9, 2017. Behavioral landscape ecology of fox squirrels: implications for animal conservation in a changing world. Forest Ecology class (FOR 3153C) of ~30 undergraduates. *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. One of "12 Ecological Research Stories in 1 Hour" by Science Communication For Ecologists Seminar Graduate Students, 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 minutes.*

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.*

SELECTED SCIENCE COMMUNICATION AND OUTREACH EXPERIENCE

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

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

Jan. 2014-Dec. 2015 Member, Biology Outreach Club, UW-Madison

Sep. 2014-May 2015 Outreach Committee Co-Chair, Zoology Graduate Student Organization, UW-Madison

Feb. 2, 2015 Interviewee, Jeremy Spool's "Chatting with Scientists" YouTube video series

- Mar. 3, 2009 Speaker, “Studying abroad in Namibia”, Valley Springs Middle School – Asheville, NC
- Dec. 2007-
May 2008 Graphic Designer and Newsletter Editor: *The Leaflet*, Wolfpack Environmental Student Association, NCSU
- Aug. 2007-
May 2008 Co-Founder, Secretary, Webmaster, Wolfpack Environmental Student Association, NCSU
- 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-
present Member, Wildlife Graduate Students Association, UF
- Jul. 2016-
Jun. 2018 Travel Grants Committee Chair, Wildlife Graduate Students Association, UF
- Sep. 2013-
Dec. 2015 Member, Wisconsin Ecology, UW-Madison
- Feb. 2014-
May 2015 Secretary, Student Association for Fire Ecology – UW-Madison chapter, UW-Madison
- Dec. 2013-
May 2014 Representative, Zoology Graduate Student Organization, UW-Madison
- Sep. 30, 2013 Workshop Leader, “NSF Application Overview and Panel”, Graduate Student
& May 5, 2014 Professional Development, UW-Madison