

Jeffrey P. Drummond Jr.

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EDUCATION

- M.S.** Biology. 2015. Western Carolina University, Cullowhee, N.C.
Thesis: Aggression affects distributions and hybrid zone expansion in montane *Plethodon* salamanders
Advisor: Joseph H.K. Pechmann, PhD
- B.S.** Biology- Ecology and Evolutionary Biology. 2012. Western Carolina University, Cullowhee, N.C.
Undergraduate Research: Seasonal variation in the aggressive behavior of urban song sparrows (*Melospiza melodia*)
Advisor: Jeremy Hyman, PhD

PROFESSIONAL EXPERIENCE

- 2016-2017 **Land Steward.** Freshwater Land Trust, Birmingham, A.L.
- 2016 **Wildlife Technician.** Department of Biology, Western Carolina University, Cullowhee, N.C. and Clemson University, Clemson, S.C.
- 2015-2016 **Instructor.** Department of Biology, Western Carolina University, Cullowhee, N.C.
- 2015 **Wildlife Technician.** Department of Fisheries, Wildlife, and Conservation Biology, N.C. State University, Raleigh, N.C. and the U.S. Forest Service, Bent Creek Experimental Forest, Asheville, N.C.
- 2013-2015 **Graduate Teaching Assistant.** Department of Biology, Western Carolina University, Cullowhee, N.C.
- 2010-2012 **Laboratory Technician.** Department of Biology, Western Carolina University, Cullowhee, N.C.
- 2002-2010 **Plant Operations Staff.** Department of Facilities, Charlotte Country Day School, Charlotte, N.C.

RESEARCH/CONSERVATION EXPERIENCE

- 2016-2017 **Land Steward – Freshwater Land Trust**
Forest and wildlife management, property baseline documentation and monitoring; wildlife identification and education; habitat restoration; ArcGIS mapping and spatial analyses.
- 2016 **Wildlife Technician – Western Carolina University and Clemson University**
Nantahala, North Carolina: Fontana Timber Harvest Patch Study
Performed avian surveys; identified bird species by sight and/or sound; used alarm call playbacks as a secondary, late season, survey method; performed vegetation surveys; supervised the avian crew; used a range-finder to estimate height of mid-story, sub-canopy, and canopy; used GPS units to locate sites and plots.
- 2016 **Volunteer Wildlife Technician – North Carolina Wildlife Resources Commission**
Used radio telemetry to track the movement of bog turtles; assisted in wetland microhabitat descriptions; assisted in herpetofaunal surveys.

- 2015 **Wildlife Technician – N.C. State University and the U.S. Forest Service**
Green River Game lands and Bent Creek Experimental Forest: Fire and Fire Surrogate Study
 Installation, maintenance, and use of drift fences with pitfall and funnel traps; identified reptiles, amphibians, small mammals, and game species; performed work-up of captured animals using calipers and hand scales; Toe and tail clipping for individual identification; performed vegetation/habitat surveys using the Weins Pole method; data entry and organization.
- 2013-2015 **Principal Investigator – Western Carolina University and Coweeta Hydrologic Laboratory**
M.S. Thesis, Department of Biology
 Field and laboratory experimental design, application, and monitoring; installation, maintenance, and use of mesh field enclosures to investigate competitive ability; subcutaneous elastomer dye injections for individual identification; nightly observations of amphibian surface activity; quantification of aggression using laboratory “gladiator trials;” data entry and analysis (Excel and R); technical writing (proposals, IACUC, thesis, and manuscript); coordinated volunteers and undergraduate researchers; presentation of findings.
- 2013 **Researcher – Western Carolina University**
Independent Research, Department of Biology
 Retrieved mitochondrial DNA sequences from GenBank and aligned sequences using ClustalX2; performed parsimony and maximum likelihood analyses using PAUP 4.0; generated and edited phylogenetic trees; technical writing.
- 2012 **Researcher – Western Carolina University**
Undergraduate Research, Department of Biology
 Performed playback experiments using Carolina wren alarm calls and song sparrow songs; quantified aggressive responses of *M. melodia*; data entry and analysis (Excel and R); technical writing (proposal and report); collaborated with the principal investigator.
- 2010-2012 **Laboratory Technician – Western Carolina University**
Student Employee, Department of Biology
 Cared for animals and maintained enclosures; organized lab space and materials; preserved and organized teaching specimens; entered data; provided field trip transportation.

PUBLICATIONS

Drummond Jr., J.P., Pechmann, J.H.K., and Hyman, J. **In Prep.** Aggression affects distributions and hybrid zone expansion in montane *Plethodon* salamanders. *Evolutionary Ecology*.

RESEARCH PRESENTATIONS

- 2017 **Drummond Jr.**, Removal of a Historic Dam: Case Study of Restoration of Endangered Species Habitat in Turkey Creek. Birmingham Environmental Professionals Association Conference. Hoover, A.L.
- 2016 **Drummond Jr.**, J.P., Pechmann, J.H.K., and Hyman, J. Plethodontid Conference, Highlands Biological Station, Highlands, N.C.
- 2015 **Drummond Jr.**, J.P., Pechmann, J.H.K., and Hyman, J. N.C. Congress of Herpetology and N.C. Partners in Amphibian and Reptile Conservation, North Carolina Zoo, Asheville, N.C.
- 2015 **Drummond Jr.**, J.P., Pechmann, J.H.K., and Hyman, J. Biology Departmental Seminar, Western Carolina University, Cullowhee, N.C.
- 2015 **Drummond Jr.**, J.P., Pechmann, J.H.K., and Hyman, J. UNC Graduate Research Symposium, Western Carolina University, Cullowhee, N.C.

TEACHING EXPERIENCE

- 2016 **Labs:** *General Biology II* – Biodiversity, 4 sections. **Guest Lectures:** *Intro to Ecology and Evolution*, Competition lecture; *General Ecology*, Competition Models and Demography lecture.
- 2015 **Lectures:** *Human Biology*, 1 section. **Labs:** *Ornithology*, 1 section; *General Biology I*, 1 section, *General Biology II* – Biodiversity, 3 sections. **Guest Lectures:** *Herpetology*, Anuran Diversity lecture; *General Ecology*, Plant and Animal Physiology lecture and Competition Models lecture. **Undergraduate research mentor:** 1 student.
- 2014 **Labs:** *Herpetology*, 1 section; *Anatomy and Physiology*, 1 section; *Human Biology*, 1 section, *General Biology II* – Biodiversity, 4 sections. **Guest Lectures:** *Intro to Ecology and Evolution*, Nutrient Cycles lecture. **Undergraduate research mentor:** 2 students.
- 2013 **Labs:** *Herpetology*, 1 section; *Environmental Biology*, 1 section; *General Biology II* – Biodiversity, 3 sections; *Genetics*, 1 section, *Intro to Ecology and Evolution*, 1 section.

AWARDS AND HONORS

- 2016 First Year Freshman Experience Excellence in Teaching Nomination
- 2015 Dean's Outstanding Graduate Scholar Award
- 2014 Outstanding Graduate Teaching Assistant Award
- 2012 Magna Cum Laude Graduation Honors

WORKSHOPS

- 2014 Private Land Management. Wildlife Conclave, Clemson University, Clemson, S.C.
- 2017 Alabama Department of Environmental Management. Nonpoint Source Meeting: Cahaba and Black Warrior Basins, Birmingham, A.L.

CERTIFICATIONS

- Wilderness First Aid (WFA) certification, NOLS- Landmark LearningExpires: 7/7/2017
- Remote Pilot License, Federal Aviation Administration, U.S.A.Expires: 6/10/2019

OUTREACH

- 2013 HIGHTS Compass program in conjunction with Adventure Based Therapy; Jackson Co., N.C. **Volunteer.** Taught high-risk youth about wildlife that may be encountered in the forests of western North Carolina, including how to identify and differentiate venomous and nonvenomous snakes
- 2010 Wilderness Backpacking, Central Piedmont Community College; Mecklenburg Co., N.C. **Volunteer Leader.** Led students enrolled in CPCC's Wilderness Backpacking course on overnight trips and answered questions about wilderness survival, long distance backpacking and primitive camping