

Reed Scott

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Education

University of Vermont, Burlington, VT

Ph.D.: Natural Resources

Graduation Date: TBD

University of Mississippi, Oxford, MS

Master of Science: Biology

Graduation Date: May 2020

State University of New York College of Environmental Science and Forestry (SUNY-ESF), Syracuse, NY

Bachelor of Science: Conservation Biology

Graduation Date: May 2016

Appointments

University of Vermont, Burlington, Vermont

June 2021 – Present

Teaching Assistant

- Prepared instructional labs, including setting up presentation to describe premise of labs
- Taught students concepts including the many uses of GIS, basics of statistical modeling, population modeling, basic coding, and data organization.
- Participated in weekly meetings to discuss and coordinate labs
- Supervised undergraduate teaching assistants
- Gave guest lecture on research as well as what a graduate student is, and what job prospects in conservation biology are

Trainee: Quantitative and Evolutionary STEM Training Program

- Established connections with local government and private partners in order to conduct research
- Partnered with a federal agency (USGS) to research co-infection dynamics of diseases
- Established a foundational understanding of modelling and statistical theory
- Developed and implemented plans for a large scale survey of amphibian diseases in Vermont
- Lead field crews in conducting biodiversity assessments
- Collected swabs from a variety of species to determine disease presence as well as disease prevalence to understand the interaction between disease dynamics and biodiversity
- Prepared samples for safe shipment to outside labs for analysis
- As lab safety coordinator, conducted monthly safety inspections and insured that all lab safety measures were followed

The University of Mississippi, Oxford, Mississippi

August 2017 – August 2020

Research Assistant: Habitat Selection and Community Assemblage

- Collected and analyzed field data which would then be presented in technical reports and presentations
- Conducted field work in inclement conditions, often in extreme hot and cold weather, as well as with biological hazards
- Worked as part of a team as well as individually to set up and maintain lab-wide experiments
- Used data collected from experiments to draw valid conclusions concerning species' habitat preferences
- Collaborating on publication of research in multiple journal articles

United States Fish & Wildlife Service, Big Pine Key, Florida

December 2016-April 2017

Intern: Reptile Inventorizing in the Florida Keys

- Led biological monitoring for 4 key species occurring in maritime hammocks to assess population status of each species
- Used Global Positioning Systems to record population distribution of species of concern.
- Assisted outreach efforts to better inform the public about the fauna and flora of the Florida Keys

- Used a variety of surveying techniques, including cover-boards and turtle traps, to collect population and habitat selection data for study species

United States Forest Service, Davis, CA

June 2016-October 2016

Field Technician: Habitat Surveying for anurans in the Sierra and Cascade Mountain Ranges

- Worked in remote locations at high elevations in the Sierra Nevada Mountains
- Conducted endangered species surveys for *Rana sierra* and *Bufo canorus*
- Conducted capture-mark-recapture surveys of *Rana cascadae* via PIT tagging and VIE
- Collected swabs of skin from *R. cascadae* to test for *B. dendrobatidis*
- Worked both independently and within a small field crew of 2-3 people

Operation Wallacea, Cusuco National Park, Honduras

June 2015-July 2015

Research Assistant

- Backpacked across Cusuco National park to remote satellite camps to collect data on protected species
- Conducted daily transects to assess herpetofauna biodiversity
- Collected swabs from a variety of amphibians to test for *B. dendrobatidis*
- Processed reptiles and amphibians to record population data including measuring snout to vent length, tail length, mass, and recording park location
- For anolids: collected tail clippings to extract genetic information for storage in a gene bank

Publications

Scott Jr., R.C., M.R. Pintar, and W.J. Resetarits Jr. 2021. Patch size drives colonization by aquatic insects, with minor priority effects of a cohabitant. *Ecology and Evolution*.

Scott Jr., R.C. and W.J. Resetarits Jr. 2021. Spatially explicit habitat selection: Testing contagion and the ideal free distribution with *Culex* mosquitoes. *The American Naturalist*

Resetarits, W.J., Potts, K.M., and **R.C. Scott, Jr.** 2022. Small scale changes in distance from forest edge reduces effects of patch size preference in ovipositing treefrogs, *Hyla chrysoscelis*. *Ecology*.

Presentations

Scott Jr. R.C. 2023. Diary of a graduate student: What do I do and how did I get here? Guest lecture in UVM Conservation Biology course. March 2023.

Scott Jr. R.C. and B.A. Mosher 2022. Meta-community approach to disease dynamics. Guest lecture in UVM Wildlife Disease Ecology course. November 2022

Scott Jr, R.C. and W.J. Resetarits Jr. 2019. The Disconnect Between Larval Performance and Oviposition Habitat Selection. Presented at The Annual Meeting of the Ecological Society of America. August 13th. Louisville, KY.

Scott Jr, R.C. and W.J. Resetarits Jr. 2019. Spatially Explicit Habitat Selection: Contagion and the Ideal Free Distribution. Presented at The University of Mississippi Field Station Science Conference. April 28th. Abbeville, MS.

Scott Jr., R.C. and W.J. Resetarits Jr. 2019. Spatially Explicit Habitat Selection: Contagion and the Ideal Free Distribution. Presented at The Annual Meeting of the Association of Southeastern Biologists. April 4th. Memphis, TN.

Scott Jr., R.C. and W.J. Resetarits Jr. 2019. Spatially Explicit Habitat Selection: Contagion and the Ideal Free Distribution. Presented at The University of Mississippi Graduate Research Symposium. March 26th. University, MS.

Scott Jr., R.C. and W.J. Resetarits Jr. 2018. Putting All Your Eggs in One Basket: Individual oviposition strategies of female *Hyla chrysoscelis*. Presented at the University of Mississippi Field Station Science Conference. April 21st. Abbeville, MS.

Relevant Skills

R software including:

- multivariate statistics
- mixed effects modelling
- species distribution and habitat modelling
- Occupancy modeling

Data cleaning, organization, and visualization

Analysis in Python

Model Construction and visualization

ArcGIS including spatial analyst functions

Microsoft Office Suite including Word, Excel, PowerPoint, and Access

Grants, Awards, and Fellowships

University of Vermont NSF Research Traineeship (NRT)	2021
University of Mississippi Graduate Student Council Research Grant (\$1000)	2019
McRight Graduate Scholarship (\$2500)	2017

Professional Activities

Reviewer for: *Herpetological Biology*

Review for *Conservation*

Reviewer for *Ecology*.

Reviewer for *Wildlife Biology*

Relevant Coursework

Herpetology, Biometry, Multivariate Analysis of Ecological Data, Introduction to Geospatial Information Technologies, Advanced Topics in GIS, Population Genetics, Cellular Biology, Ecological Monitoring and Biological Assessment

Teaching Experience

Global Environmental Assessment	2022
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Teaching Assistant

Conservation Biology	2023
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Teaching Assistant

Introduction to R Bootcamp	2024
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Co-instructor

Service and Outreach

Rubenstein Graduate Student Association	2022-2023
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Aiken Chair

Mississippi State Science and Engineering Fair	2019
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<i>Judge</i>	
Biological Graduate Students' Journal Club	2019
<i>President</i>	
University of Mississippi Field Station Science Conference	2018
<i>Educator</i>	
University of Mississippi Field Station Science Day	2017
<i>Educator</i>	