

# RHETT M. RAUTSAW

PH.D. STUDENT, CLEMSON UNIVERSITY  
EVOLUTION | ECOLOGY | CONSERVATION

## EDUCATION

Current  
|  
2017

- **PH.D., BIOLOGICAL SCIENCES**  
Clemson University  Clemson, SC USA  
Dissertation: Testing the influence of competition on venom evolution  
Advisor: Dr. Christopher L. Parkinson

2017  
|  
2014

- **M.S., BIOLOGY**  
University of Central Florida  Orlando, FL USA  
Thesis: The paths less traveled: Movement of Gopher Tortoises (*Gopherus polyphemus*) along roads and railways  
Advisor: Dr. Christopher L. Parkinson

2014  
|  
2012

- **B.S., BIOLOGICAL SCIENCES**  
Wright State University  Dayton, OH USA

## PROFESSIONAL EXPERIENCE

Current  
|  
2017

- **NSF GRADUATE RESEARCH ASSISTANT**  
Clemson University  Clemson, SC USA  
Advisor: Dr. Christopher L. Parkinson

2017  
|  
2014

- **GRADUATE RESEARCHER & TEACHING ASSISTANT**  
University of Central Florida  Orlando, FL USA  
Advisor: Dr. Christopher L. Parkinson

2014  
|  
2012

- **UNDERGRADUATE RESEARCHER & RESEARCH ASSISTANT**  
Wright State University  Dayton, OH USA  
Advisors: Dr. Jeffrey Peters, Dr. Thomas Rooney, Dr. Volker Bahn

## FELLOWSHIPS & GRANTS

2021  
|  
2020

- **HARRY & CATHERINE FINDLEY STUDENT ASSISTANCE ENDOWMENT**  
Clemson University Department of Biological Sciences  \$3,000

2020

- **GRANTS-IN-AID OF RESEARCH**  
SigmaXi  \$800  
Testing for the influence of competition on venom evolution in sky-island rattlesnakes

2020

- **GRADUATE TRAVEL GRANT**  
Clemson University Graduate Student Government  \$750  
Travel for Dissertation Field Work in Arizona/New Mexico

2020

- **HOWARD McCARLEY STUDENT RESEARCH AWARD**  
Southwestern Association of Naturalists  \$1,000  
Testing for the influence of competition on venom evolution in sky-island rattlesnakes



View this CV online with links at  
<https://github.com/reptilerhett/CV>

## CONTACT

-  [reptilerhett@gmail.com](mailto:reptilerhett@gmail.com)  
 [ReptileRhett](#)  
 [github.com/reptilerhett](https://github.com/reptilerhett)  
 [RhettRautsaw.com](http://RhettRautsaw.com)

## LANGUAGE SKILLS



**Total:** \$11,550.00

The source code is available on  
[github.com/reptilerhett/CV](https://github.com/reptilerhett/CV).

Last updated October 2020.

2019	● <b>E.E. WILLIAMS RESEARCH GRANT</b> Herpetologists League Testing for Character Displacement in Venom	📍 \$1,000
2019	● <b>GRADUATE STUDENT RESEARCH AWARD</b> Society of Systematic Biologists Testing the Influence of Competition on Venom Evolution	📍 \$2,000
2019	● <b>KLAUBER SUMMER RESEARCH GRANT</b> Southwestern Center for Herpetological Research Exploring the Influence of Species Coexistence on Venom Evolution	📍 \$250
2019	● <b>GRADUATE TRAVEL GRANT</b> Clemson University Graduate Student Government Travel to 2nd National Congress of Mexican Vipers	📍 \$1,000

2019	● <b>GRADUATE TRAVEL GRANT</b> Clemson University Graduate Student Government Travel to Biology of the Pitvipers	📍 \$750
2015	● <b>J. LARRY LANDERS STUDENT RESEARCH GRANT</b> The Gopher Tortoise Council Examining Corridor Use and the Feasibility of Inland Retreat by Gopher Tortoise ( <i>Gopherus polyphemus</i> )	📍 \$1,000

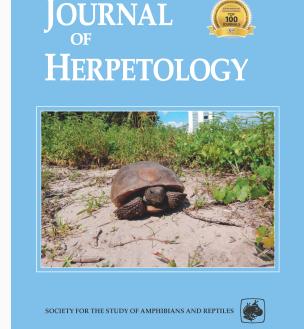
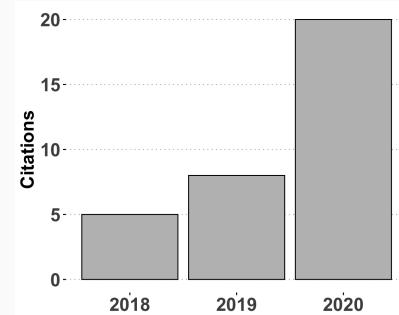
## 🏆 AWARDS & HONORS

2019	● <b>BioOne AMBASSADOR AWARD</b> BioOne – nominated by ASIH	📍 \$1,000
2019	● <b>COPEIAS BEST STUDENT PAPER IN HERPETOLOGY</b> ASIHI	
2018	● <b>CBASS 1ST PLACE GRADUATE POSTER PRESENTATION</b> Clemson University BSGSA	📍 \$100
2017	● <b>SEIBERT AWARD FOR BEST CONSERVATION ORAL PRESENTATION</b> SSAR	📍 \$200
2017	● <b>BEST STUDENT ORAL PRESENTATION</b> FLTWS	📍 \$100
2016	● <b>GRADUATE PRESENTATION FELLOWSHIP</b> UCF College of Graduate Studies	📍 \$300
2016	● <b>GRADUATE STUDENT TRAVEL AWARD</b> UCF Department of Biology	📍 \$200
2016	● <b>GRADUATE STUDENT TRAVEL AWARD</b> ASIHI	📍 \$600
2015	● <b>BOYD LYON MEMORIAL TRAVEL AWARD</b> UCF BGSAs	📍 \$150
2015	● <b>STUDENT TRAVEL AWARD</b> The Gopher Tortoise Council	📍 \$100
2015	● <b>GRADUATE PRESENTATION FELLOWSHIP</b> UCF College of Graduate Studies	📍 \$500

## 📄 PUBLICATIONS

Contributions listed using CRediT Taxonomy

<b>Publications</b>	9
<b>First Author</b>	5
<b>Citations</b>	33
<b>h-index</b>	4
<b>i10-index</b>	0



- 2020 ● **GENOMIC ADAPTATIONS TO SALINITY RESIST GENE FLOW IN THE EVOLUTION OF FLORIDIAN WATERSNAKES**  
Molecular Biology and Evolution. DOI: [10.1093/molbev/msaa266](https://doi.org/10.1093/molbev/msaa266)  
**Rautsaw RM**, Schramer TD, Acuña R, Arick LN, DiMeo M, Mercier KP, Schrum M, Mason AJ, Margres MJ, Strickland JL, Parkinson CL  
CRediT: Conceptualization; Methodology; Formal Analysis; Investigation; Writing-Original Draft; Visualization; Project Administration
- 2020 ● **METALLOPROTEINASE REPLACEMENT AND PARALLEL STRUCTURAL SIMPLIFICATION MAINTAIN VENOM PHENOTYPES IN DIVERSE GROUPS OF REAR-FANGED SNAKES**  
Molecular Biology and Evolution. DOI: [10.1093/molbev/msaa192](https://doi.org/10.1093/molbev/msaa192)  
Bayona-Serrano JD, Viala VL, **Rautsaw RM**, Schramer TD, Barros G, Nishiyama Junior MY, Sousa L, Moura-da-Silva AM, Parkinson CL, Grazziotin FG, Junqueira-de-Azevedo ILM  
CRediT: Validation; Investigation; Resources; Writing – Review & Editing
- 2019 ● **INTRASPECIFIC SEQUENCE VARIATION AND GENE EXPRESSION CONTRIBUTE LITTLE TO VENOM DIVERSITY IN THE SIDEWINDER RATTLESNAKE (*CROTALUS CERastes*)**.  
Proceedings of the Royal Society B: Biological Sciences 286(1906). DOI: [10.1098/rspb.2019.0810](https://doi.org/10.1098/rspb.2019.0810)  
**Rautsaw RM**, Hofmann EP, Margres MJ, Holding ML, Strickland JL, Mason AJ, Rokita DR, Parkinson CL  
CRediT: Conceptualization; Methodology; Formal Analysis; Investigation; Data Curation; Writing-Original Draft; Visualization; Project Administration
- 2018 ● **COMPARATIVE VENOM-GLAND TRANSCRIPTOMICS AND VENOM PROTEOMICS OF FOUR SIDEWINDER RATTLESNAKE (*CROTALUS CERastes*) LINEAGES REVEAL LITTLE DIFFERENTIAL EXPRESSION DESPITE INDIVIDUAL VARIATION.**  
Scientific Reports 8: 15534. DOI: [10.1038/s41598-018-33943-5](https://doi.org/10.1038/s41598-018-33943-5)  
**Rautsaw RM**, Hofmann EP, Strickland JL, Holding ML, Hogan MP, Mason AJ, Rokita DR, Parkinson CL  
CRediT: Conceptualization; Methodology; Formal Analysis; Investigation; Data Curation; Writing-Original Draft; Visualization; Project Administration
- 2018 ● **ESTIMATING THE RESPONSE OF WILDLIFE COMMUNITIES TO COASTAL DUNE CONSTRUCTION**  
Ocean and Coastal Management 161(1): 31-36. DOI: [10.1016/j.ocecoaman.2018.04.021](https://doi.org/10.1016/j.ocecoaman.2018.04.021)  
Martin SA, **Rautsaw RM**, Bolt MR, Parkinson CL, Seigel RA  
CRediT: Conceptualization; Methodology; Investigation; Writing-Review & Editing
- 2018 ● **ON THE ROAD AGAIN: ASSESSING THE USE OF ROADSIDES AS WILDLIFE CORRIDORS FOR GOPHER TORTOISES (*GOPHERUS POLYPHEMUS*)**  
Journal of Herpetology 52(2): 136-144. DOI: [10.1670/17-013](https://doi.org/10.1670/17-013)  
**Rautsaw RM**, Martin SA, Lanctot K, Vincent BA, Bolt MR, Seigel RA, Parkinson CL  
CRediT: Conceptualization; Methodology; Formal Analysis; Investigation; Data Curation; Writing-Original Draft; Visualization; Project Administration; Funding Acquisition
- 2018 ● **STOPPED DEAD IN THEIR TRACKS: THE IMPACT OF RAILWAYS ON GOPHER TORTOISE (*GOPHERUS POLYPHEMUS*) MOVEMENT AND BEHAVIOR**  
Copeia 106(1): 135-143. DOI: [10.1643/CE-17-635](https://doi.org/10.1643/CE-17-635)  
**Rautsaw RM**, Martin SA, Vincent BA, Lanctot K, Bolt MR, Seigel RA, Parkinson CL  
CRediT: Conceptualization; Methodology; Formal Analysis; Investigation; Data Curation; Writing-Original Draft; Visualization; Project Administration; Funding Acquisition  
Awarded 2019 BioOne Ambassador  
Awarded Copeia 2018 Best Student Paper in Herpetology
- 2017 ● **SET AHDRIFT: APPLYING GAME CAMERAS TO DRIFT FENCES FOR SURVEYING HERPETOFAUNA AND SMALL MAMMALS**  
The Wildlife Society Bulletin 41(4): 804-809. DOI: [10.1002/wsb.805](https://doi.org/10.1002/wsb.805)  
Martin SA, **Rautsaw RM**, Robb F, Bolt MR, Parkinson CL, Seigel RA  
CRediT: Conceptualization; Methodology; Investigation; Writing-Original Draft; Visualization; Project Administration

2017

- ADAPTING COASTAL MANAGEMENT TO CLIMATE CHANGE: MITIGATING OUR SHRINKING SHORELINES  
The Journal of Wildlife Management 81(6): 982-989. DOI: 10.1002/jwmg.21275  
Martin SA, **Rautsaw RM**, Bolt MR, Parkinson CL, Seigel RA  
CRediT: Investigation; Writing-Review & Editing

#### SELECTED PRESS (ABOUT)

- NA
- NA
  - NA
  - NA
- NA

 NA

#### SELECTED PRESS (BY)

- NA
- NA
  - NA
  - NA

 NA

#### SELECTED PUBLICATIONS, POSTERS, AND TALKS

- NA
- NA
  - NA
  - NA

 NA