Natalie Claunch

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Support Scientist and Wildlife Research Biologist
USDA APHIS National Wildlife Research Center
Florida Field Station
Gainesville, FL, USA 32611

EDUCATION

2021 **Ph.D. Interdisciplinary Ecology**
Wildlife Ecology and Conservation Concentration
University of Florida, Gainesville, Florida, USA
Dissertation: Physiological legacy of invasive reptiles

2016 **Master of Science in Biology** *with distinction,* California Polytechnic State University San Luis Obispo. California, USA
Thesis: Stress ecology of the Pacific Rattlesnakes *Crotalus oreganus* and *Crotalus helleri*

2013 **Bachelor of Science in Zoology** *summa cum laude*,
North Carolina State University, Raleigh, North Carolina, USA

2011 *Semester Abroad*, University of the Sunshine Coast, Sippy Downs, Queensland, Australia

WORK AND LEADERSHIP EXPERIENCE

2025- curr. *Courtesy Faculty*, Department of Natural History, University of Florida, Gainesville, Florida, USA

2024- curr. *Courtesy Faculty*, Department of Biology, University of Florida, Gainesville, Florida, USA

2023- curr. *Support Scientist / Wildlife Biologist*, U.S. Department of Agriculture, Animal and Plant Health Inspection Service, Wildlife Services, National Wildlife Research Center, Florida Field Station, Gainesville, FL

2022- 2023 *NSF Postdoctoral Research Fellow*, Department of Biology and Florida Museum of Natural History, University of Florida, Gainesville, Florida, USA

2022 *Coordinator and Instructor*. River Ecology and Conservation Workshop. Monterrico, Santa Rosa, Guatemala

2021-2022 *Postdoctoral Research Associate*, Department of Wildlife Ecology and Conservation, University of Florida, Gainesville, Florida, USA

2021-2022 *Reptile Expert*, Invasive Species Horizon Scan Project
U.S. Geological Survey

2020 *Co-Instructor*, Invasion Ecology of Reptiles and Amphibians, University of Florida, Gainesville, Florida, USA

2016-2021 *Graduate Research Assistant*, University of Florida, Gainesville, Florida, USA

2019, 2024 *Instructor, Field Herpetology of the Southwest,* American Museum of Natural History, Southwestern Research Station, Portal, Arizona, USA

2016-18 *Student Assistant, Field Herpetology of the Southwest,* American Museum of Natural History, Southwestern Research Station, Portal, Arizona, USA

2017-2018 *Instructor*, Environmental Science, University of Florida

2017-2018 *Curatorial Assistant*, Ornithology, Florida Museum of Natural History

2017 *State Expert Instructional Materials Reviewer*, Florida Dept of Education

- Biology 1 Honors

- Anatomy and Physiology

2014-2016 *Graduate Research Assistant*, *Graduate Teaching Assistant*, California Polytechnic State University

2013 *Amphibian Research Intern*, Smithsonian National Zoological Park, Washington D.C., USA

2011 *Volunteer*, Australia Zoo Wildlife Hospital, Beerwah, Queensland, Australia

2010-2014 *Technician Assistant*, Stahl Exotic Animal Veterinary Services , Fairfax, Virginia, USA

TEACHING EXPERIENCE

University of Florida, Gainesville, Florida, USA

2025 Animal Systems III: Large Animal Anatomy (VEM 5112K).
Guest Instructor: Reptile Anatomy (College of Veterinary Medicine)

2023 Curatorial Methods – Introduction to Natural History Museums (ZOO 4926)
Mentor, Herpetology. Supervised two student research projects

2020 Invasion Ecology of Reptiles and Amphibians (WIS 4934). Fully Online Subject.
Lecturer and Coordinator.

2017-2018 Environmental Science (EVS 3000L). Lecture-based Subject.
Lecturer and Coordinator.

American Museum of Natural History, Portal, Arizona, USA

2019, 2024 Field Herpetology of the Southwest, Southwestern Research Station
Instructor. 10 day field workshop with lectures and field exercises and training

River Ecology and Conservation Workshop, Monterrico, Guatemala *(Coordinator)*

2022 *4 day field workshop with lectures, field exercises, and training*
Introduction to Ecophysiology and Conservation Physiology
Stress Ecology and Thermal Ecology
Reptile and Amphibian Capture and Sampling Techniques

California Polytechnic State University, San Luis Obispo, California, USA

2014-2016 Diversity and History of Life Laboratory (BIO 160).
Instructor. Designed Laboratory Manuals

2014-2016 Introduction to Organismal Form and Function Laboratory (BIO 162) .
Instructor. Designed Laboratory Manuals and online materials

2015-2016 Herpetology (ZOO 341).
Instructor and Coordinator. Combined Lecture, Laboratory, and Field

2016 Field Herpetology (ZOO s341) Intensive.
Instructor. Lecturer and Field Laboratory Coordinator

FUNDING ($270,200 USD)

2026 Assessing metabolic impacts of an invasive parasite in native snakes. University of Florida ($6550)

2024 Assessment of Removal Methods for Agamas (*Agama picticauda*) Cooperative Service Agreement 1810 (74FL) with University of Florida and Florida Fish and Wildlife Commission, in collaboration with USDA APHIS WS Operations and Army Corps of Engineers ($39,525.20)

2022 Florida Museum Travel Award ($1000)

2022-2024 NSF Postdoctoral Research Fellowship in Biology: "Determining the functional and physiological tradeoffs of thermal plasticity on ectotherm hosts combatting a novel pathogen" ($138,000)

2021-2022 Tropical Conservation and Development Working Group Grant: "Riverine Ecology and Conservation Working Group" ($1000)

2016-2019 SNRE Graduate School Fellowship Award, University of Florida ($22,000)

2017-2020 US Geological Survey (PI: Christina Romagosa) "Ecology, physiology and control of invasive reptiles in Florida" ($58,225)

2020 Doris and Earl Lowe and Verna Lowe Scholarship, University of Florida CALS ($2000)

2020 Sigma Xi Grants in aid of Research: Determining phylogeography of an invasive lizard with rapid range expansion ($500)

2020 Dept Wildlife Ecology and Conservation Travel Grant, University of Florida ($250)

2019 Office of Research Travel Grant, University of Florida ($400)

2019 SNRE Travel Grant, University of Florida ($250)

2018 Michael May Interdisciplinary Grant, University of Florida Dept. Biology ($1000)

2014 Aryan I. Roest Memorial Scholarship, California Polytechnic State University ($500)

HONORS AND AWARDS

2021 Frederick H. Stoye Award in Herpetology for a Virtual Presentation, Joint Meeting of Ichthyologists and Herpetologists

2017 Best Session Talk, 2017 Joint Meeting of Ichthyologists and Herpetologists Lightning Talk

2016 Outstanding Graduate Student of the Year, California Polytechnic State University

2016 Outstanding Graduate Student in Biological Sciences, California Polytechnic State University

2016 Honorable Mention, National Science Foundation Graduate Research Fellowship

2015 Honorable Mention, National Science Foundation Graduate Research Fellowship

PUBLICATIONS (48)

Published manuscripts and book chapters (28 peer-reviewed papers):

*Undergraduate student that I supervised

1. **Claunch NM**, Legare M, Nicely A, Hall PT, Edwards J, Rivera-Milán F, Kluever BM, Romagosa CM. **2026.** Evaluation of three removal methods for an invasive lizard, Peters' Rock Agama (*Agama picticauda*). *Frontiers in Amphibian and Reptile Science 4*, https://doi.org/10.3389/famrs.2026.1699230
2. Pottier P, Oh RRY, Pollo P, Rivera-Villanueva AN, Yang Y, *Varon S, Longo AV, Burkey S, Lin H-Y, Valdebenito JO, Amano T, Drobniak SM, Nakagawa S, **Claunch N. 2025.** AmphiTherm: a comprehensive database of amphibian thermal tolerance and preference. *Scientific Data* 12, https://doi.org/10.1038/s41597-025-06286-w

3. **Claunch NM**, Jones PM, Khazan ES, Kluever BM. **2025.** State of knowledge for invasive green iguanas in Florida reveals negative impacts and pervasive research needs. *Frontiers in Amphibian and Reptile Science* 3, https://doi.org/10.3389/famrs.2025.1529065

4. Daniel WM, Sofaer HR , Jarnevich CS, Erickson RA, DeGregorio BA, Engelstad PS, Freedman J, Canavan S, Dean EM, Adams MJ, Anderson CL, Barnett M, Brey MK, Brumm KJ, Bunting MS, Caffrey E, Cardador L, Carter J, Cassey P, Chapman DC, **Claunch N**, Counihan TD, Davis KP, Deshwal A, Douglas AK, Dunn CG, Ehlo C, Everett K, Gleditsch JM, Grosse A, Hendrickson Z, Hess S, Hill JE, Holmes ND, Longo AV, Lockwood JL, Mason DM, McDonald A, Neilson M, Reaver K, Reed R, Roberts C, Rogosch JS, Romagosa C, Russell JC, Simpson A, Smith SA, Sperry J, Tuckett QM, VerCauteren K, Waddle H, Wanamaker C, Willson JD, Williams A, Lieurance D. **2025.** Vertebrates in trade that pose high invasion risk to the United States. *Biological Conservation* 302, 110887. DOI: 10.1016/j.biocon.2024.110887

5. Goodman C, **Claunch N,** Steele Z, Episcopio-Sturgeon D, & Romagosa C. **2024.** Colorful lizards and the conflict of collection. *Human-Wildlife Interactions.* 18:10 https://digitalcommons.usu.edu/hwi/vol18/iss1/10

6. *Consuegra V, Flemming A, **Claunch NM**. 2024. Relationship between predation and maternal investment in curly-tailed lizards. *Reptiles & Amphibians* 31: e22640

7. Hopkins C, Lesbarrères D, **Claunch N**, Emmenegger E, Hardy B, Torres-Sánchez M, Stark T, Julian A, McGrath-Blaser S, Parker-Graham CA, Haman K, Morgan A, and Miller DL. **2024**. Balancing the scales: Including underrepresented herptile species in a One Health approach. *Research Directions: One Health.* 2, e17, 1–10. https://doi.org/10.1017/one.2024.14

8. Hartmann AM, Sash K, Hill EP, **Claunch NM**, Maddox ML*, McGrath-Blaser S, McKinstry CC*, Ossiboff RJ, Longo AV. **2024.** Partitioning the influence of host specificity in amphibian populations threatened by multiple emerging infectious diseases. *Biological Conservation* 296:110685 https://doi.org/10.1016/j.biocon.2024.110685

9. **Claunch NM**, Goodman CM, Kluever BM, Barve N, Guralnick RP, & Romagosa CM. **2023.** Commonly collected thermal performance data best inform species distributions in a data-limited invader. *Scientific Reports* 13: 15880 https://doi.org/10.1038/s41598-023-43128-4

10. **Claunch NM**, Clancy KL, Harman MEA, Hengstebeck KC, Juárez-Sánchez D, Haro D, Hartmann A, *Vilchez M, McKee RK, *Sutton A, & Romagosa CM. **2023.** Welcome to paradise: snake invasions on islands. *Invited book chapter in edited volume: Island Snakes Volume II.* Eds: Lillywhite H, Martins M. Oxford University Press.

11. **Claunch NM,** Goodman CM, Harman M, *Vilchez M, *Smit SD, Kluever BM, Wellehan JFX, Ossiboff RJ, & Romagosa CM. **2023.** Dermatomycosis caused by *Paranannizziopsis australasiensis* in non-native panther chameleons (*Furcifer pardalis*) captured in Central Florida, USA. *Journal of Wildlife Diseases* 59:322-331. https://doi.org/10.7589/JWD-D-22-00018

12. **Claunch N,** Lind C, Lutterschmidt DI, Moore IT, Neuman-Lee L, Stahlschmidt Z, & Taylor EN. 2023. Stress Ecology in Snakes. In: *Snakes: Morphology, Function, and Ecology*. Ed:

Penning, D. Nova Science Publishers, New York, USA. https://novapublishers.com/wp-content/uploads/2023/08/Chapter-11.pdf

13. Guzy JC, Falk BG, Smith BJ, Willson JD, Reed RN, Aumen NG, Avery ML, Bartoszek IA, Campbell E, Cherkiss MS, **Claunch NM**, et al. **2023.** Burmese pythons in Florida: A synthesis of biology, impacts, and management tools. *NeoBiota* 80:1-119. https://doi.org/10.3897/neobiota.80.90439

14. Tillis SB, Josimovich JM, Miller MA, Hoon-Hanks LL, Hartmann AM, **Claunch NM,** Iredale ME, Logan TD, Yackel Adams AA, Bartoszek IA, Humphrey JS, Kluever BM, Stenglein MD, Reed RN, Romagosa CM, Wellehan JFX Jr., Ossiboff RJ. **2022.** Divergent serpentoviruses in free-ranging invasive pythons and native colubrids in southern Florida, United States. *Viruses*, 14:2726. https://doi.org/10.3390/v14122726

15. **Claunch N,** Downs CJ, Schoenle LA, Oakey S, Romagosa C, Ely T, & Briggs CW. **2022.** Snap-freezing in the field: effect of sample processing time on performance of bactericidal assays. *Integrative and Comparative Biology*, icac007. https://doi.org/10.1093/icb/icac007

16. **Claunch N,** Bartoszek IA, Tillis S, Ossiboff RJ, Wellehan JFX, Stacy NI, Oakey S, Schoenle LA, & Romagosa CM. **2022.** Physiological effects of capture and short-term captivity in an invasive snake species, the Burmese python (*Python bivittatus*) in Florida. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology*. 267: 111162. https://doi.org/10.1016/j.cbpa.2022.111162

17. **Claunch N,** Goodman C, Reed R, Romagosa CM, & Taylor EN. **2021.** Invaders from Islands: Thermal Matching, Potential, or Plasticity? *Biological Journal of the Linnean Society*: 134: 587-603. https://doi.org/10.1093/biolinnean/blab103

18. **Claunch NM,** Holding ML, Frazier JA, *Huff EM, *Schonour RB, Vernasco B, Moore IT, Rokyta DR, Taylor EN. **2021.** Experimental manipulation of corticosterone levels does not affect venom composition or functional activity in free-ranging rattlesnakes. *Physiological and Biochemical Zoology*: 94: 286-301. https://doi.org/10.1086/714936

19. **Claunch N**, Moore IT, Waye H, Schoenle L, Oakey S, Reed RN, & Romagosa CM. **2021.** Understanding metrics of stress in the context of invasion history: the case of the brown treesnake (*Boiga irregularis*). *Conservation Physiology* 9: coab008. https://doi.org/10.1093/conphys/coab008

20. **Claunch NM**, *Nix E, *Royal AE, Burgos LP, *Corn M, *DuBois PM, Ivey KN, *King E, *Rucker KA, *Shea TK, *Stepanek J, *Vansdadia S, & Taylor EN. **2020.** Body size impacts critical thermal maximum measurements in lizards. *Journal of Experimental Zoology A* 335: 96-107. https://doi.org/10.1002/jez.2410

21. *Schonour RB, *Huff E, Holding ML, **Claunch NM**, Ellsworth S, Hogan M, Wray K, McGivern J, Margres M, Colston T, & Rokyta D. **2020.** Gradual and discrete ontogenetic shifts in rattlesnake venom composition and assessment of hormonal and ecological correlates. *Toxins* 12: 659 https://doi.org/10.3390/toxins12100659

22. Sandfoss M, **Claunch N,** Stacy N, Romagosa C, & Lillywhite H. **2020.** A tale of two islands: evidence for impaired stress response and altered immune functions in an insular pit

viper following ecological disturbance. *Conservation Physiology* 8: coaa031. https://doi.org/10.1093/conphys/coaa031

23. *Stepanek, J, **Claunch, NM,** Frazier, JA, Escallon, C, Vernasco, BJ, Moore, IT, & Taylor, EN. **2019.** Corticosterone and Color Change in Southern Pacific Rattlesnakes (*Crotalus helleri*). *Herpetologica* 75(2): 143- 152. https://doi.org/10.1655/D-18-00008
24. **Claunch, N**, Holding, M, Moore, I, Escalon, C, Vernasco, B, & Taylor EN. **2017.** Good vibrations: Assessing the stability of snake venom composition after researcher-induced disturbance in the laboratory. *Toxicon. 133:* 127-135. https://doi.org/10.1016/j.toxicon.2017.05.010
25. **Claunch, NM,** Frazier, JA, Escallon, C, Vernasco, BJ, Moore, IT, & Taylor, EN**. 2017.** Physiological and behavioral effects of exogenous corticosterone in a free-ranging ectotherm. *General and Comparative Endocrinology 248:* 87-96. http://dx.doi.org/10.1016/j.ygcen.2017.02.008
26. *DuBois, PM, *Shea, TK, **Claunch, NM,** & Taylor EN. **2017.** Effects of oxygen on responses to heating in two lizard species along an elevational gradient. *Journal of Thermal Biology* 68B: 170-176. http://dx.doi.org/10.1016/j.jtherbio.2017.02.008
27. *Shea, T, *DuBois, M, **Claunch, N**, *Murphey, N, *Rucker, K, Brewster, R, & Taylor, E. **2016**. Oxygen concentration affects upper thermal tolerance in a terrestrial vertebrate. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology 199*: 87-94. https://doi.org/10.1016/j.cbpa.2016.05.026
28. **Claunch N,** & Augustine L. **2015.** Morphological description of Spindly Leg Syndrome (SLS) in Golden Mantella, (*Mantella aurantiaca*) at the Smithsonian National Zoological Park. *Journal of Herpetological Medicine and Surgery 25* (3-4): 72-77. https://doi.org/10.5818/1529-9651-25.3.72

Peer-reviewed notes and extension documents (13):

*Undergraduate student that I supervised

1. Johnson SA, **Claunch NM,** *Maddox M, *Beloyan K. *In Press.* Florida's Nonnative Herpetofauna: Veiled Chameleon (*Chamaeleo calyptratus*), Oustalet's Chameleon (*Furcifer oustaleti*), & Panther Chameleon (*Furcifer pardalis*). UF IFAS Extension Document.
2. Johnson SA, *Reyes C, *Dodge B, & **Claunch N.** 2021. Florida's introduced reptiles: brown anole (*Anolis sagrei*). UF IFAS Extension Document. doi.org/10.32473/edis-uw486-2021
3. Borcyk P*, Fortner E*, **Claunch NM**, & Johnson SA. 2021. Florida's introduced reptiles: green iguana (*Iguana iguana*). UF IFAS Extension Document. doi.org/10.32473/edis-uw485-2021
4. Fieldsend T, **Claunch N,** Fridie B, Goodman C, Harman M, Krysko K, Raxworthy C, Romagosa C, & Collins T. 2021. Extreme male color polymorphism supports the introduction of multiple native-range Panther Chameleon (*Furcifer pardalis*) lineages to Florida, USA. *Reptiles and Amphibians* 28:257-261. https://doi.org/10.17161/randa.v28i2.15599

5. *Thomason SM, *Broxton JM, Romagosa CM, & **Claunch NM. 2020***.*** *Leiocephalus carinatus* (Northern Curly-tailed Lizard). Geographic Distribution. *Herpetol. Review: 51(2): 272*
6. **Claunch NM,** Stanley E, & Romagosa CM. **2020**. *Leiocephalus carinatus* (Northern Curly-tailed Lizard). Extreme Fecal Impaction. *Herpetol. Review: 51(1):* 127.
7. *Broxton JM, *Thomason SM, Romagosa CM, & **Claunch NM. 2019.** *Agama picticauda* (Peters' Rock Agama). Geographic Distribution. *Herpetol. Review* 50(4): 745.
8. *Henigan LE, Blais CB, *Dzikowski NT, Romagosa CM, & **Claunch NM. 2019**. *Agama picticauda* (Peters' Rock Agama). Cannibalism. *Herpetol. Review* 50(1): 132-3.
9. *Dzikowski NT, Blais CB, *Henigan LE, Romagosa CM, & **Claunch NM. 2019***.*** *Agama picticauda* (Peters's Rock Agama). Reproduction. *Herpetol. Review* 50(1): 132.
10. Blais CB, *Henigan LE, *Dzikowski NT, & **Claunch NM. 2019***.*** *Leiocephalus carinatus armouri* (Northern Curly-tailed Lizard). Diet. *Herpetol. Review* 49(2): 374.
11. **Claunch N,** Denton R, Holding M, Taylor E, & Mullin SJ. **2018**. *Scaphiopus couchii* (Couch's Spadefoot Toad). Predation. *Herpetol. Review* 49(2): 312-3.
12. **Claunch N,** & Crowe-Riddell, J. **2018.** *Leiocephalus carinatus* (Northern Curly-tailed Lizard). Extreme Fecal Impaction. *Herpetol. Review* 49(1): 118-119.
13. **Claunch NM,** & Taylor EN. **2017.** *Gambelia wislizenii* (Long-nosed leopard lizard). Saurocaudophagy. *Herpetol. Review* :*48*(1): 190-192.

Non-refereed publications and reports (8):

1. **Claunch NM,** Legare M, Nicely A, Hall PT, Edwards J, Rivera-Milán F, Kluever BM, Romagosa CM. 2025. Assessment of Removal Methods for Agamas (*Agama picticauda*). Final Summary Report to Florida Fish and Wildlife Conservation Commission.
2. **Claunch NM**, Nicely A, Hall PT, Jensen M, Kluever BM. Report on 2023 movement data collected from raccoons associated with sea turtle nest depredation at Cape Canaveral Beach, Florida.
3. Hill JE, Johnson SA, **Claunch N**, Tuckett QM, & Romagosa CM. **2021**. Bioprofiles and Risk Screens of African Clawed Frog *Xenopus laevis* (Pipidae), Cane Toad *Rhinella marina* (Bufonidae), and Spectacled Caiman *Caiman crocodilis* (Alligatoridae) in Florida. Submitted to Wildlife Impact Management Section, Florida Fish and Wildlife Conservation Commission, Tallahasee, FL.
4. Frazier J, **Claunch N**, & Trunzo J. **2016.** BIO 162 Lab manual: Plant and Animal Physiology. Online. *PolyLearn.* California Polytechnic State University.
5. Ruttenberg B, Frazier J, **Claunch N,** Ritter M, Trunzo J & Yost J. **2015.** BIO 160 Lab manual: Diversity and history of life. *San Luis Obispo, CA: Cal Poly University Store*.
6. **Claunch N** & Frazier J**. 2015**. BIO 160 Lab Instructional Video Series. *PolyLearn: California Polytechnic State University.*
7. **Claunch N. 2015.** "BIO 160 Lab Dissection Guides and Supplemental Figures." Illustrations. Online. *PolyLearn.* California Polytechnic State University.

IN-PROGRESS PROJECTS AND MANUSCRIPTS

*Undergraduate student I supervised

1. **Claunch NM,** Reed R, Martin LB, Schrey A, Romagosa C. Stress and immune defenses vary among invasive populations of two lizard species in Florida. *Manuscript in-prep.*
2. **Claunch NM,** Hartmann A, *Dunlap F, Harman M, *Gonzalez B, *McKinstry C, Walters M, Kuhn A, Boyd M, *Cruz-Arana C, Idec J, Guralnick R, Longo A. Integrating information on thermal preferences and microhabitats to forecast disease susceptibility and vulnerability to climate change in a diverse community of montane salamanders. *Analysis ongoing.*
3. **Claunch NM,** Hartmann A, Colón-Piñero Z, *McKinstry C, *Cruz-Arana C, Idec J, Denslow M, Guralnick R, Longo A. Access to thermal gradients allows a threatened species to clear infection with an invasive pathogen. *Data collection nearly complete.*
4. **Claunch NM,** Harman M, Hartmann A, *Gonzalez B, Miller M, Romagosa C, Longo A. Spillover: Metabolic costs of infection with invasive pentastome parasites in native snakes. *Data collection ongoing.*
5. Jongsma G, **Claunch NM.** Hot frogs at high latitudes: forecasting the distribution of Canadian frogs in response to climate change using thermal limits. *Analysis ongoing.*
6. **Claunch NM, *****Cruz-Arana C, *Dunlap F, Longo A, Romagosa C. Examining fluctuating assymetry in a range-expanding invasive lizard using nano-CT technology. *Analysis ongoing.*
7. **Claunch NM,** Colón-Piñero Z, Hartmann A, Torres-Sanchez M, *Julian A, Longo A. Metabolic effects of routine sampling techniques in frogs. *Manuscript in prep.*
8. **Claunch NM,** Sandfoss M, Tillman E, Kluever B, Jellen B. Identifying potential chemical lures via seasonal variation of pheromonal compounds derived from femoral pores in the invasive Argentine Black and White Tegu. *Data collection ongoing.*
9. **Claunch NM,** Hall P, Nicely A, Jensen M, Kluever B. Seasonal movement ecology of raccoons associated with sea turtle nest depredation. *Data collection ongoing.*
10. **Claunch NM**, Williams J, Stanley EL. AgamaBot: evaluating behavioral responses of invasive lizards to a robotic lure. *Robotic prototype testing ongoing.*

PUBLISHED ILLUSTRATIONS

1. Hopkins C, Lesbarrères D, **Claunch N**, Emmenegger E, Hardy B, Torres-Sánchez M, Stark T, Julian A, McGrath-Blaser S, Parker-Graham CA, Haman K, Morgan A, and Miller DL. **2024**. Balancing the scales: Including underrepresented herptile species in a One Health approach. Research Directions: One Health. 2, e17, 1–10. https://doi.org/10.1017/one.2024.14 (Figures 1-2)
2. **Claunch N,** Lind C, Lutterschmidt DI, Moore IT, Neuman-Lee L, Stahlschmidt Z, & Taylor EN. 2023. Stress Ecology in Snakes. In: *Snakes: Morphology, Function, and Ecology*. Ed: Penning, D. Nova Science Publishers, New York, USA. (Figures 1-3) https://novapublishers.com/wp-content/uploads/2023/08/Chapter-11.pdf

3. Guzy JC, Falk BG, Smith BJ, Willson JD, Reed RN, Aumen NG, Avery ML, Bartoszek IA, Campbell E, Cherkiss MS, **Claunch NM**, et al. **2023.** Burmese pythons in Florida: A synthesis of biology, impacts, and management tools. *NeoBiota* 80:1-119. (Figure 2) https://doi.org/10.3897/neobiota.80.90439
4. Larson JG, Crowell HL, Walsh LL, Davis Rabosky AR. **2022**. The Batrachian barf bowl: an authentic research experience using ecological data from frog diets. *Ecology and Evolution*: e9095. (Figure 2)
5. Hengstebeck KC, & Romagosa CM. **2020**. A Trap for Capturing Large Burrow-dwelling Snakes. *Herpetol. Review* 51: 468-471. (Figure 1)
6. Shea T, DuBois M, **Claunch N**, Murphey N, Rucker K, Brewster R, & Taylor E. **2016**. Oxygen concentration affects upper thermal tolerance in a terrestrial vertebrate. *Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology 199*: 87-94.
7. **Claunch N** & Augustine L. **2015.** Morphological description of Spindly Leg Syndrome (SLS) in Golden Mantella, (*Mantella aurantiaca*) at the Smithsonian National Zoological Park. *J. Herp. Med. Surg. 25* (3-4): 72-77.
8. Ruttenberg B, Frazier J**, Claunch N,** Ritter M, Trunzo J & Yost J. **2015.** BIO 160 Lab manual: Diversity and history of life. *San Luis Obispo, CA: Cal Poly University Store*.
9. **Claunch N. 2015.** "BIO 160 Lab Dissection Guides and Supplemental Figures." Illustrations. Online. *PolyLearn.* California Polytechnic State University.

PRESENTATIONS

Academic Conference Talks (15)

2024 Green Iguanas in Florida: a Contemporary Assessment of Known and Potential Impacts. Biology of Lizards 2. Rodeo, New Mexico.

2022 Thermal factors influencing distribution of Panther chameleons (*Furcifer pardalis*) in Florida. Joint Meeting of Ichthyologists and Herpetologists, Spokane, WA.

2022 Herpetofaunal ecology (often) makes sense in the light of thermal physiology. Invited Speaker for the Symposium: Celebrating the contributions of Hal Heatwole and Hal Cogger to Herpetology. 55th Meeting of the Australian Society of Herpetologists, Mylor, South Australia.

2022 Extreme variation in functional immunity among populations of non-native lizards in Florida. Complement to Symposium. Society of Integrative and Comparative Biologists Meeting, Phoenix, AZ

2021 Islanders on the mainland: exploring thermal influences on establishment in an invasive lizard. Florida Museum of Natural History Seminar Series

2021 Glucocorticoid profiles vary with establishment history in invasive lizards. International Society of Wildlife Endocrinologists Virtual Event

2021 When Island Lizards Colonize the Mainland: Thermal Matching, Potential, or Plasticity? Joint Meeting of Ichthyologists and Herpetologists, Phoenix, AZ *Awarded Frederick H. Stoye Award for Best Virtual Presentation*

2021 Thermal Influences on Invaders from Islands. SNRE Student Research Symposium

2021 Physiological Legacies of Reptile Invasions. School of Natural Resources and Environment Departmental Research Seminar. University of Florida.

2021 Let's talk about Stress. Invited Research Seminar. Florida International University

2021 Invaders sourced from islands: thermal matching, potential or plasticity? Society of Integrative and Comparative Biology, Virtual Meeting

2020 A Curly Tale: stress and immunity across nonnative populations of differing ages in *Leiocephalus carinatus*. World Congress of Herpetology, Dunedin, Otago, New Zealand

2019 Stress, Immunity, and Invasion: A case study of multiple populations of two lizards in their introduced range. Joint Meeting of Ichthyologists and Herpetologists, Snowbird, UT

2017 Do Invasive Reptiles Shed Immune Armor to Conquer New Lands?
Awarded Best Session Talk. Joint Meeting of Ichthyologists and Herpetologists, Austin, TX

2016 Stress Ecology of the Southern Pacific Rattlesnake. Joint Meeting of Ichthyologists and Herpetologists, New Orleans, LA

Academic Conference Posters (11)

2025 Assessment of removal methods for nonnative *Agama picticauda* in Florida, USA. Joint Meeting of Ichthyologists and Herpetologists. St. Paul, MN. July 9-13.

2025 Rocket Raccoons came in from the dunes: a preliminary analysis of raccoon access to beach habitat at Cape Canaveral Beach. 21st Wildlife Damage Management Conference at Mississippi State University, Starkville, MS

2024 Impacts of Green Iguana to Property, Infrastructure, and Safety in Florida. Invasion Science Research Symposium. University of Florida.

2023 Metabolic costs of losing microbial and immune defenses in Coqui Frogs (*Eleutherodactylus coqui*). Joint Meeting of Ichthyologists and Herpetologists, Norfolk, VA

2022 Investigating the influence of thermal environment on infection dynamics of *Bsal* in Plethodontid salamanders. Global Amphibian and Reptile Disease Conference, Knoxville, TN

2022 Cool chameleons can't change critical limits. Society of Integrative and Comparative Biologists Meeting, Phoenix, AZ

2021 Colorful Lizards and the Conflict of Collection, Joint Meeting of Ichthyologists and Herpetologists, Phoenix, AZ

2019 Stress Indices in the infamous island invader, *Boiga irregularis*. Joint Meeting of Ichthyologists and Herpetologists, Snowbird, UT

2019 Stress Responses of an Infamous Island Invader. Society of Integrative and Comparative Biologists Meeting, Tampa, FL

2017 Physiological and behavioral effects of exogenous corticosterone in a free-ranging ectotherm. Society of Integrative and Comparative Biology Meeting, New Orleans, LA

2014 Manifestation of Spindly Leg in Golden Mantella *(Mantella aurantiaca)*
National Capital American Association of Zookeepers Regional Conference, Washington,

D.C.

Community and Non-Academic Partner Presentations (25)

2025 Tracking the spread of *Agama picticauda* in Florida over space and time. Poster. Everglades Cooperative Invasive Species Management Area Coordination Meeting 2025 Invasive Species Summit.

2025 Assessment of removal methods for nonnative *Agama picticauda* in Florida, USA. Poster. Everglades Cooperative Invasive Species Management Area Coordination Meeting 2025 Invasive Species Summit

2021-2025 Invasive herpetofauna: a focus on cane toads and Cuban treefrogs. Annual Training Presentation. Natural Areas Training Academy: Managing for Diversity across Florida's Unique Landscapes Workshop.

2025 Agamas, Iguanas, Tegus, and Vultures. Invited talk, Florida Chapter of The Wildlife Society

2024 Feathers and scales: Toward better understanding and reducing human-wildlife conflict. Invited talk, University of Florida Student Chapter of the Wildlife Society

2024 Appreciate, identify, and participate in community science with Virginia's salamanders! Virginia Master Naturalists, Virginia Cooperative Extension

2024 Project Cybermander: community science in salamander disease ecology. Public Talk. University of Florida Student Chapter of the Wildlife Society.

2024 Herpetofauna conflicts and border crossings. Public Talk. American Museum of Natural History Southwestern Research Station, Portal, AZ

2023 Project Cybermander: community science in salamander disease ecology. Public Talk. Frog Drinks, First Magnitude Brewing Company

2022 Invasive Reptiles: A Primer. Invited Public Talk. Little St. Simons Island, GA.

2022 Stress Ecology and Thermal Ecology. Lecture. English and Spanish. River Ecology and Conservation Workshop. Monterrico, Santa Rosa, Guatemala

2022 Introduction to Ecophysiology and Conservation Physiology. Lecture. English and Spanish. River Ecology and Conservation Workshop. Monterrico, Santa Rosa, Guatemala

2022 Reptile and amphibian capture and sampling techniques. Lecture. English and Spanish. River Ecology and Conservation Workshop. Monterrico, Santa Rosa, Guatemala

2021 Physiological effects of capture and captivity in invasive Burmese pythons (*Python bivittatus*). Talk. Florida Cooperative Fish and Wildlife Research Unit Cooperators Meeting, Gainesville, FL

2019 Reptile Invasions: Your Backyard and Beyond. Invited Speaker, Audubon Society Western Everglades Chapter.

2019 Stress and Immune Responses in Prominent Reptile Invaders. Poster. Suds and Science, Cypress and Grove Brewery, Gainesville, FL. Poster

2019 A case for physiological metrics in the management and prevention of reptile invasions. Poster. Greater Everglades Ecosystem Restoration Meeting, Coral Springs, FL *and* Florida Cooperative Fish and Wildlife Research Unit Cooperators Meeting, Gainesville, FL

2019 Border follies as applied to invasive herpetofauna. Public Talk. American Museum of Natural History Southwestern Research Station, Portal, AZ

2018 What Can a Blood Sample Reveal About Reptile Invasions? Poster. Suds and Science, First Magnitude Brewery, Gainesville, FL.

2018 Stress and Immune Responses in Prominent Reptile Invaders. Florida Cooperative Fish and Wildlife Research Unit Cooperators Meeting, Gainesville, FL

2017 Do Reptilian Invaders Shed Immune Armor to Conquer New Lands? Florida Cooperative Fish and Wildlife Research Unit Cooperators Meeting, Gainesville, FL

ACADEMIC SOCIETY MEMBERSHIPS

The Wildlife Society (2023-current)
American Society of Ichthyologists and Herpetologists (2015-current)
International Society of Wildlife Endocrinologists (2017-2021)
The Guild of Natural Science Illustrators (2021-2023)
Society for the Study of Amphibians and Reptiles (2015-2020)
The Herpetologists' League (2015-2020)
Society of Integrative and Comparative Biologists (2017-2021)
The Phi Beta Kappa Society (2013-current)

ACADEMIC SERVICE

2024-curr. *Associate Editor*, Journal of Herpetology
2024-curr. *Section Editor*, Alien Species, The Reptile Database
2023-curr. *Board Member*, Invasive Species Working Group, The Wildlife Society
2023-curr. *Governor-Elect*, Board of Governors American Society of Ichthyologists and Herpetologists 2024-2027 term
2022-curr. *Section Editor,* Reptiles and Amphibians
2022 *Moderator and Student Judge,* American Society of Ichthyologists and Herpetologists
2020-2021 *Secretary,* SNRE Graduate Student Council
- Organized panels and professional development workshops
- Organized departmental student research symposium
- Served as liaison for graduate students to department and college

2016 *Graduate Student Representative*, Biology Department fiscal committee

Peer reviewer:

National Science Foundation Panelist
Landscape Ecology
Behaviour
General and Comparative Endocrinology
Biological Invasions
Current Herpetology
Journal of Herpetology
Current Zoology
The Herpetological Journal
Zoo Biology

Biotropica
Herpetological Review
Southeastern Naturalist
Herpetology Notes
Journal of Wildlife Diseases
Philosophical Transactions B
Movement Ecology
Conservation Physiology
Ichthyology and Herpetology
Scientific Reports
Oryx
Physiology and Behavior

CERTIFICATIONS

2024 Immobilisation and Euthanasia Certification. USDA Wildlife Services National Training Academy
2021 Center for the Integration of Research, Teaching, and Learning Associate (CIRTL) Certificate

DIVERSITY, EQUITY, AND INCLUSION TRAINING & SERVICE

2022-2023 *Member* Inclusion, Diversity, Equity and Accessibility (IDEA) Committee Biology Department, University of Florida
2019-2023 *Member*, Gainesville Ally Skills Network
2019 *Participant*, Ally Skills Workshop at UF Informatics Institute

SUPERVISION EXPERIENCE

**undergraduate from community college ***undergraduate from international exchange program

Committee Member, Gabriela Logo, University of Florida, Master of Science, Wildlife Ecology and Conservation "Reproductive physiology of male Burmese pythons in Florida" August 2025.

Committee Member, Grace De Vries, University of Florida Undergraduate Honor's Thesis Reproductive variation in female *Agama picticauda* in Florida, December 2025

Thesis Chair, William Welsh, University of Florida Undergraduate Honor's Thesis "Tracking the Spread of *Agama picticauda* in Florida over Space and Time", May 2026

Thesis Chair, Savanna Thomason** Santa Fe College Undergraduate Honor's Thesis "Morphology Differences of Invasive Populations of *Leiocephalus carinatus* in Florida" Awarded May 2020