Kristen Martinet

Curriculum Vitae

PROFESSIONAL APPOINTMENTS

2024 – Present   **Postdoctoral Researcher**, University of Arizona, College of Information Science

Summer 2024   **Postdoctoral Researcher**, University of Idaho, Polymorphic Games Studio

EDUCATION

2024   **PhD, Bioinformatics and Computational Biology**
University of Idaho, Moscow, Idaho
Advisor: Luke Harmon

2018   **BS, Biology** *Honors Program*
Minor: Computer Science
Florida Southern College, Lakeland, Florida

RESEARCH INTERESTS

Incorporating biological concepts into video games, evolution, bioinformatics, phylogenetic comparative methods, and island biogeography

PUBLICATIONS

1. **Martinet, K.M.**, Román-Palacios, C., & Harmon, L.J. 2025. SSARP: An R Package for Easily Creating Species- and Speciation- Area Relationships Using Web Databases. *bioRxiv.* 2024.12.31.630948; doi: https://doi.org/10.1101/2024.12.31.630948

2. **Martinet, K.M.** & Harmon, L.J. 2024. Delimiting the rare, endangered and actively speciating. *Molecular Ecology Resources.* 24(3): e13938

3. Stemle, L.R., **Martinet, K.M.**, & Langford, G.J. 2020. Natural History Traits and Ecology of the Striped Mud Turtle in a Florida Wetland. *Southeastern Naturalist.* 19(3): 511-523

4. Stemle, L.R., **Martinet, K.M.**, & Langford, G.J. 2019. Spatial Ecology of the Striped Mud Turtle, *Kinosternon baurii*, in a Restored Florida Wetland. *Herpetological Review.* 50(4): 695-698

THESES

1. **Martinet, K.M.** 2024. Video Games and Web Databases as Novel Computational Tools for Understanding Biodiversity. University of Idaho ProQuest Dissertations & Theses. Available from: https://www.proquest.com/docview/3058590063?pq-origsite=primo

2.   **Martinet, K.M.** 2017. A Comparative Analysis of the Commensal Diversity of Two Gopher Tortoise (*Gopherus polyphemus*) Populations in Central Florida. B.S. Thesis, Florida Southern College. Available from: http://hdl.handle.net/11416/395

IN PREPARATION AND SUBMITTED

1.   **Martinet, K.M.**, Juhn, M.S., Boucher, F.C., Harmon, L.J., Revell, L.J., Foerster, S.I.A., Shultz, A.J., Burns, K., & Alfaro, M.E. (In Revision). A Wrapped Brownian Motion Model for Traits on a Circular Scale. In revision for *Systematic Biology.*

2.   Alam, M.N.U., Basava, K., Chitransh, A., Fattah, H.M.A., Garcia-Verdugo, H., Lo, S-H., Lohchab, T., **Martinet, K.M.**, Román-Palacios, C., Salazar, J.C., & Van Boxel, D. (In Review). Machine learning in biological research: key algorithms, applications, and future directions. Submitted to *Nature Methods.*

3.   **Martinet, K.M.**, Dace, B., Harmon, L.J., Pearson, S., Wischnowski, J., Wright, L.R., Soule, T., & Robison, B.D. (In Prep.). Is Evolution Predictable? Experiments in an Evolutionary Video Game. Target journal *American Naturalist.*

4.   **Martinet, K.M.** & Harmon, L.J. (In Prep.). Non-Native Species Impact Species-Area Relationships for Lizard Genera *Anolis*, *Phelsuma*, and *Emoia* on Islands. Target journal *Journal of Biogeography.*

SOFTWARE

1.   **2025** – SSARP (Species-/Speciation-Area Relationship Projector) R Package. Available on GitHub: https://github.com/kmartinet/SSARP

2.   **2023** – Arbor: Analytics Over the Tree of Life – a collection of web applications for phylogenetic comparative methods. Available from: http://arbor.knowledgevis.com:9080/

3.   **2020** – Evolvy Bugs: Pew Pew! – an unreleased video game in which enemies evolve and experience mate selection. Available from GitHub upon request for private repository access.

FUNDING & AWARDS (TOTAL FUNDING: $106,386)

1.   **2024** – Best Poster Presentation, Arizona Postdoctoral Research Conference, Tucson, Arizona (**$50**)

2.   **2023** – Paul Joyce Memorial BCB Fellowship Award, University of Idaho (**$2500**)

3.   **2022** – College of Science Travel Award for Galápagos Field Work, University of Idaho (**$1500**)

3.   **2022** – GPSA Travel Award for Evolution Conference, University of Idaho (**$700**)

4. **2021** – Bioinformatics and Computational Biology Fellowship, University of Idaho (**\$33,447**)

3. **2021** – GPSA Travel Award for IBS Conference, University of Idaho (Declined) (**\$900**)

5. **2020** – Lauren Ancel Meyers Registration Award for SACNAS, Institute for Modeling Collaboration and Innovation, University of Idaho (**\$205**)

6. **2019 − 2020** – Bioinformatics and Computational Biology Fellowship, University of Idaho (**\$67,084**)

COURSE TEACHING EXPERIENCE

Spring 2024   Herpetology Lab (BIOL 489). University of Idaho, 29 students

Spring 2023   Ecology and Population Biology Lab (BIOL 314). University of Idaho, 24 students

Fall 2022   Herpetology Lab (BIOL 489). University of Idaho, 21 students

Spring 2022   Ecology and Population Biology Lab (BIOL 314). University of Idaho, 23 students

Fall 2021   Herpetology Lab (BIOL 489). University of Idaho, 25 students

Fall 2020   Herpetology Lab (BIOL 489). University of Idaho, 19 students

WORKSHOP TEACHING EXPERIENCE

Fall 2023   Software Carpentries: Data Visualization. University of Idaho, 17 students

Summer 2023   Studying Biodiversity with R Workshop. Santa Cruz Island, Galápagos, 22 students

Spring 2022   Software Carpentries: Data Visualization. University of Idaho, 15 students

OUTREACH EXPERIENCE

Fall 2024   Great American Teach-In, Pepin Academies, Tampa, Florida

Fall 2024   Bio/Diversity Project Presentation, University of Arizona

Summer 2024   Coding Summer Camp Presentations, University of Idaho

Spring 2024   Vandal Game Convention, Polymorphic Games Studio Booth, University of Idaho

2022 − 2023   Office of Undergraduate Research How-To Series Presentations, University of Idaho

Fall 2018   Great American Teach-In, Pepin Academies, Tampa, Florida

2017 – 2018   High School Chemistry Lab Visit Instructor, Florida Southern College

2015 – 2018   Polk Nature Discovery Center Presentations, Lakeland, Florida

2015 – 2017   First Friday and Children's Museum Chemistry Demos, Florida Southern College

UNIVERSITY SERVICE

2021 – 2024   Founding Vice President of the University of Idaho's SACNAS Chapter

2021 – 2023   Bioinformatics and Computational Biology Student Representative

PRESENTATIONS AT PROFESSIONAL MEETINGS

Presenter is first author, unless indicated by *

1. **Martinet, K.M.**, Harmon, L.J., & Román-Palacios, C. 2025. SSARP: an R package for easily creating species- and speciation-area relationships. SICB, Atlanta, Georgia.

2. **Martinet, K.M.**, Godfrey, B., & Harmon, L.J. 2024. SSARP: Easily Project Species-Area Relationships. Arizona Postdoctoral Research Conference, Tucson, Arizona. Poster.

2. **Martinet, K.M.**, Godfrey, B., & Harmon, L.J. 2023. SSARP: Easily Project Species-Area Relationships. EVO-WIBO, Port Townsend, Washington. Poster.

3. **Martinet, K.M.**, Wright, L.R., Soule, T., Harmon, L.J., & Robison, B.D. 2022. Evolutionary Diversification in a Digital Video Game. Evolution, Cleveland, Ohio.

4. **Martinet, K.M.**, Robison, B.D., Soule, T., Holliday, G., Mason, L., Wright, L.R., & Harmon, L.J. 2021. Survival of the Hairiest: Mate Selection in an Evolutionary Video Game. Evolution, Virtual.

5. **Martinet, K.M.** & Harmon, L.J. 2020. Species-Area Curves for Island Lizard Radiations. Society of Systematic Biologists Standalone Meeting, Gainesville, Florida. Poster.

6. **Martinet, K.M.**, Stemle, L.R., & Langford, G.J. 2018. A Comparative Analysis of the Commensal Diversity from Two Gopher Tortoise (*Gopherus polyphemus*) Populations in Central Florida. Joint Meeting of Ichthyologists and Herpetologists, Rochester, New York. Poster.

7. Stemle, L.R., **Martinet, K.M.**, & Langford, G.J. 2018. Life History Traits and Spatial Ecology of the Striped Mud Turtle, *Kinosternon baurii*, in Central Florida. Joint Meeting of Ichthyologists and Herpetologists, Rochester, New York.

8. Stemle, L.R.*, **Martinet, K.M.***, & Langford, G.J. 2017. Life History Traits and Spatial Ecology of the Striped Mud Turtle, *Kinosternon baurii*, in Central Florida. Florida Chapter of The Wildlife Society Spring Conference, Orlando, Florida. Poster.