

LISA CHAMBERLAND, PHD

BIOLOGIST

CONTACT

Lisa Chamberland
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<https://lchamberland.github.io/>

EDUCATION

Doctor of Philosophy (PhD)

Biology
The University of Vermont
January 2015 – October 2020

Bachelor of Arts (BA)

Biology and Anthropology
The University of Vermont
September 2009 – May 2013

KEY SKILLS

CEQA & NEPA Review
Large Database Management
Process Development

Coding & Data Analysis

Spatial Ecology & Modeling
R, Python, Julia
ArcGIS Pro and QGIS
Population Genetics/Genomics
Bioinformatics
Machine Learning
Landscape Connectivity
Statistical Analyses

Fieldwork

Invertebrate Collections & ID
Protocol Development
Permit Preparation
GPS Data Collection
Community Science & Engagement

SUMMARY

Environmental consultant and biologist with over a decade of interdisciplinary experience in spatial modeling and statistics, and scientific writing. Proven mentor and team leader, skilled at translating scientific insights into clear, actionable outcomes for diverse audiences, including stakeholders and regulatory agencies.

PROFESSIONAL EXPERIENCE

Cornerstone Consulting Services | **Biologist**

Supervisor: Dale Catron
May 2024–Present

- Quantified potential environmental impacts of transmission and distribution line construction and maintenance, including preparing materials in line with federal agency requirements (e.g. BLM, USFS, and USFWS)
- Developed custom scripts to improve environmental review workflow.

University of California, Davis | **Postdoctoral Scholar**

Supervisor: Dr. Gregory Lanzaro
Davis, CA | May 2023–May 2024

- Led spatial ecology research, including ecological niche modeling under current and future climate scenarios to evaluate mosquito vector distribution and landscape connectivity.
- Contributed to stakeholder reports and delivered invited presentations on research implications for vector control and public health

University of California, Davis | **Postdoctoral Scholar**

Supervisor: Dr. Jason Bond
Davis, CA | Mar 2021–May 2023

- Conducted high-throughput sequencing and phylogenetic analyses of spider lineages across the California Floristic Province, producing bioinformatics pipelines.

University of Vermont | **Graduate Teaching Assistant**

Supervisor: Dr. Ingi Agnarsson
Burlington, VT | Jan 2015–Oct 2020

- Instructed labs in biology, field entomology, and biodiversity analysis, integrating R programming and field-based learning.

Selected Peer Reviewed Publications

Chamberland L, Campos M, Corrêa M, Pinto J, Cornel AJ, Viegas J, Lanzaro, GC, (2025) Larval habitat suitability and landscape genetics of the mosquito *Anopheles coluzzii* on São Tomé and Príncipe islands. *Landscape Ecology*, 40(3), p.49.

Chamberland L, Agnarsson I, Quayle IL, Ruddy T, Starrett J, Bond JE. (2022) Biogeography and eye evolution of the ogre-faced spiders. *Scientific Reports*. 12(1), 17769.

Chamberland L, Salgado-Roa FC, Basco A, Cranz A, Binford G, Agnarsson I. (2020) Phylogeography of the widespread Caribbean spiny orb weaver *Gasteracantha cancriformis*. *Peer J*. 8:e8976

AWARDS AND GRANTS

- 2020 The John Wheeler Graduate Student Research Award | \$2000
- 2019/2020 Graduate Teaching Assistant of the Year | Department of Biology | \$100
- 2018/2020 American Arachnological Society Systematics Research | \$1250 (combined total)
- 2016/2019 The University of Vermont Mini Travel Grant | \$900 (combined total)
- 2016 Sigma Xi Grant in Research Award (2016) | \$1000

OUTREACH & ACADEMIC SERVICE

- 2014-2024 **Mentor** | Supervised students in molecular lab work, data analysis, and publication
- 2022-present **Journal Referee** | *Invertebrate Systematics, Biological Reviews, PeerJ, Systematic Biology, Zookeys, Applied Biology & Biotechnology, Global Ecology and Biogeography*
- 2021, 2022 **Symposium Organizer and Host** | American Arachnological Society Events
- 2013-2022 **Volunteer Educator** | Arachnology outreach with middle and high school students and the general public

SELECTED PRESENTATIONS & INVITED TALKS

- 2024 **Invited talk** | Environmental Monitoring of Gene Drive Modified Mosquitoes Workshop (FNIH / GeneConvene), Reston, VA
- 2024 **Invited talk** | USDA Seminar | USDA EER-ARS Wapato, Washington (virtual)
- 2023, 2024 Presentation | Pacific Branch Entomological Society of America Meetings
- 2022 **Invited talk** | Entomology & Nematology Winter Seminar Series | University of California, Davis
- 2022 **Invited talk** | SDSU Department of Biology Seminar Series | San Diego State University
- 2015, 2018, 2019, 2020, 2022 Presentation | American and International Arachnological Society Meetings