Lisa Chamberland, PhD

BIOLOGIST

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PROFESSIONAL SUMMARY

Biologist with expertise in ecological modeling, spatial analysis, and environmental workflow development, functioning as an Environmental Data Analyst in high-volume utility projects. Skilled in R, Python, GIS (ArcGIS Pro, QGIS), and data processing. Experienced in managing large datasets, automating workflows, and supporting environmental programs, with familiarity in CEQA and NEPA processes. Seeking to apply analytical and project coordination skills in environmental consulting and natural resource management.

CORE SKILLS

Environmental & Regulatory: CEQA (beginner-level and exemption experience), NEPA (workshop-trained), biological resources review, environmental screening

Technical & Data: R, Python, Microsoft Office Suite, GIS/ArcGIS Pro, QGIS, spatial data analysis and modeling, workflow automation, QA/QC, invertebrate surveys, GPS data collection, molecular lab techniques, sample management

Project & Team: Project coordination, process development, cross-team collaboration, technical documentation, workflow documentation, task leadership, mentoring, field data collection

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PROFESSIONAL EXPERIENCE

Biologist – Environmental Data Analysis & Project Support | Cornerstone Consulting Services
Sacramento, CA (Remote) | May 2024 – Present

- Conduct initial environmental intake analyses for incoming utility projects, identifying project scope, creating KMZ files, and performing preliminary environmental screening, including TUG (Targeted Undergrounding) projects.
- Support the GO131E and CRE (Commercial Real Estate) programs by preparing project descriptions, reviewing memos, and applying CEQA exemptions to determine project eligibility.
- Develop automated R-based scripts and workflows to standardize data processing, improve efficiency, and reduce manual effort
- Assist in project managers in workflow documentation, QA/QC of environmental documents, and cross-team coordination to streamline high-volume projects.
- Lead process development and continuous improvement initiatives, including template creation, documentation updates, and internal training for team members.
- Support fieldwork and spatial mapping activities using ArcGIS/QGIS and GPS for project planning and environmental resource identification.

Postdoctoral Researcher – Vector Ecology & Spatial Modeling | University of California, Davis
Davis, CA | May 2023 – May 2024

- Conducted spatial analyses and ecological niche modeling to predict distributions and landscape connectivity of medically important mosquito vectors.
- Developed and implemented R and GIS-based workflows for data processing, mapping, and predictive modeling under current and future climate scenarios.
- Prepared technical reports, stakeholder summaries, and presentations to communicate research outcomes.
- Managed and analyzed large datasets, ensuring accuracy, reproducibility, and documentation standards.

Postdoctoral Researcher – Phylogenomics & Evolution | University of California, Davis
Davis, CA | Mar 2021 – May 2023
- Analyzed biological datasets including high-throughput sequencing and phylogenetic data to study spider evolution across the California Floristic Province.
- Developed bioinformatics workflows for reproducible sequence processing and data analysis.
- Produced figures, maps, and technical summaries for presentations and collaborative projects.

Graduate Teaching Assistant – Phylogenetics, Biogeography and Field Biology Support | University of Vermont
Burlington, VT | Jan 2015 – Oct 2020
- Led instruction and hands-on labs in general biology, entomology, invertebrate identification, and biodiversity analyses.
- Conducted field surveys and collected biological samples, contributing to habitat and species assessments.
- Supported students in learning R programming for phylogenetic and ecological data analysis.

EDUCATION

PhD, Biology | University of Vermont | 2015 – 2020
BA, Biology and Anthropology | University of Vermont | 2009 – 2013

WORKSHOPS & TRAINING

NEPA Essentials Workshop | Association of Environmental Professionals | Dec 9, 2025
CEQA Essentials Workshop | Association of Environmental Professionals – Superior CA | Nov 7, 2025
CEQA & NEPA for Biologists workshop | Althouse and Meade, Inc.| Feb 12-13, 2025
Environmental Monitoring of Gene Drive Modified Mosquitoes Workshop | FNIH / GeneConvene | Jun 11-13, 2024

SELECTED PRESENTATIONS & INVITED TALKS

Invited Talk | Environmental Monitoring of Gene Drive Modified Mosquitoes Workshop, Reston, VA.
Invited Seminar — USDA EER-ARS Wapato, Washington (virtual).
Conference Presentation — Pacific Branch Entomological Society of America Meetings.
Invited Seminar — Entomology & Nematology Winter Seminar Series, University of California, Davis.
Invited Seminar | Department of Biology Seminar Series, San Diego State University.
Conference Presentation | American and International Arachnological Society Meetings.

SELECTED PUBLICATIONS

- Chamberland L, Campos M, Corrêa M, Pinto J, Cornel AJ, Viegas J & Lanzaro G. (2025) Larval habitat suitability and landscape genetics of the mosquito Anopheles coluzzii on São Tomé and Príncipe islands. *Landscape Ecology. 40(3), 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.*
- Chamberland L, Salgado-Roa FC, Basco A, Cranz A, Binford G, Agnarsson I. (2020) Phylogeography of the widespread Caribbean spiny orb weaver *Gasteracantha cancriformis*. *PeerJ* 8:e8976.
- Chamberland L, McHugh A, Kechejian S, Binford GJ, Bond JE, Coddington J, Dolman G, Hamilton CA, Harvey MS, Kuntner M, Agnarsson I. (2018) From Gondwana to GAARlandia: evolutionary history and biogeography of ogre-faced spiders (*Deinopis*). *Journal of Biogeography* 45(11): 2442–2457.