Emily N. Ostrow

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Professional Summary

• Interdisciplinary bioinformatician with experience developing, managing, funding, and publishing various genomic research projects.
• Experienced with analysis of reduced-representation and full genomic sequences, using a broad approach to incorporate many types of data, resulting in 1 published and 2 submitted first author publications.
• Excellent communicator and experienced manager of students, volunteers, and other researchers.

Experience

2018 - Present **Graduate Research Fellow**
University of Kansas
• Wrote effective grant proposals and communicated with stakeholders as demonstrated by raising over $150,000 in a fellowship and small grants to fund my PhD research
• Creative research development skills, resulting in novel host and parasite genomic research using machine learning techniques
• Excellent project management, managing other students to generate genomic data using thousands of lab samples for group projects
• Communicated complex research findings to the public by sharing work at one invited talk and 6 conference presentations
• Wrote and published technical reports in Journals, resulting in 2 first author articles under review and 2 published articles

2018 **Graduate Teaching Assistant**
University of Kansas
• Experienced managing large groups, having taught two courses including introductory biology and evolution

2014 - 2018 **Student Research Associate**
Academy of Natural Sciences of Drexel University
• Led field research for three years, resulting in over 2,000 biological samples collected for disease surveillance
• Designed assays for disease detection using PCR and qPCR.
• Worked with community partners to gain financial support and access to biological samples

Education

ABD 2023 **Ph.D. in Ecology and Evolutionary Biology**
University of Kansas, Lawrence KS

2018 **Masters of Science in Environmental Science**
2018 **Bachelors of Science in Environmental Science**
Drexel University, Philadelphia PA

Selected Fellowships and Grants

2018 Graduate Research Fellow, *National Science Foundation*

2022 Ficken Research Award, *American Ornithological Society*
2021 Entomology Endowment Grant, *University of Kansas*
2021 Ornithology Department Grant, *University of Kansas*

Skills

• Unix/Linux command line
• Cluster computing
• R programming
• Data visualization
• DNA extraction
• Genomic library prep
• PCR/qPCR
• Next generation sequencing
• Team leadership
• Funding acquisition
• Project management
• Student mentorship
• Scientific communication
• Graphic design

Volunteer Positions

2022 - Present **Transport Monitor**
Pointer Rescue Organization

2019 - 2022 **STEM Advisory Council**
Girl Scouts of NE KS and NW MO