

Jared Croyle

Berkeley, CA | (909) 362-3732 | jaredcroyle524@gmail.com | jaredcroyle.com

Education

B.S. in Molecular Environmental Biology - Data Science Minor, May 2025

University of California, Berkeley

Relevant Coursework:

- General Genetics: Comprehensive study of gene regulation, manipulation, and genetic variation.
 - Practical Genomics: Hands-on training in computational biology and bioinformatics techniques.
 - Concepts in Computing with Data: Applied statistics using R and SQL for data analysis.
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Research Experience

UC Berkeley Department of Environmental Science, Policy, & Management, Feb 2024 - Present

EvoLab - Research Assistant - Supervised by Dr. Rosemary Gillespie

- Conducted research on adaptive radiation and evolution in Hawaiian spiders.
- Utilized methods in DNA extractions, sonication, sequencing, and library prep for whole genome sequences.
- Analyzed sequence data and created figures using MEGA11 and BEAST2.

UCR Department of Microbiology and Plant Pathology, June 2023 - August 2023

Stajich Lab - NSF-REU Participant - Supervised by Dr. Jason Stajich

Research project: "Taxonomically Distinct *Coniochaeta*, *Filobasidium*, *Naganishia*, and *Curvibasidium* Species Isolated from Moss Biocrusts"

- Cultured media and isolated fungal samples.
 - Performed DNA extractions and utilized Sanger sequencing.
 - Created figures using computational tools such as MAAFT and SnapGene.
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Employment History

West Riverside Veterinary Hospital, Riverside, CA, June 2021 - May 2023

Veterinary Assistant

- Assisted veterinarian during immunologic, medical, surgical and diagnostic procedures.
- Took scans and x-rays of animals using proper restraint and methods.
- Administered anesthetics and managed emergencies related to disease, seizures, and conflict.

The Living Desert Zoo and Gardens, Palm Desert, CA, September 2016 - March 2020

Zookeeper's Assistant Volunteer

- Gained animal husbandry and breeding experience for desert animals from around the world.
- Leadership roles and participated in public outreach regarding conservation.

The Aquarium of the Pacific, Long Beach, CA, May 2018 - August 2019

Student Eco-Ambassador Intern

- Conducted field research with researchers and aquarists in Central and South America involving water quality and wildlife surveys.
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Awards:

NSF-REU Research Award, Center for Plant Cell Biology at University of California, Riverside, 2023

Publications:

Peer Reviewed Publications

1. **Croyle**, J., Kelly, K., Liu, X., and Stajich, J. E. 2024. Draft genome sequence of endophytic fungus *Coniochaeta* sp. isolated from the Mojave Desert. **(In Preparation)**
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Presentations and Conferences:

2023, August. Taxonomically Distinct *Coniochaeta*, *Filobasidium*, *Naganishia*, and *Curvibasidium* Species Isolated from Moss Biocrusts. Poster presentation. University of California, Riverside CEPCEB.

Technical Skills:

Programming Languages: Python, R

Scripting Languages: BASH

Web Development: HTML5, CSS3

Operating systems: MacOS, Linux (Ubuntu)