

Chloe Collier Allen

5th Year PhD Candidate within the Ecology, Evolution, and Conservation Biology Program

University of Nevada, Reno

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Location: Reno, Nevada

Profile

I have a Bachelor of Science from the University of Nevada, Reno (UNR) with a minor in anthropology. I am currently a PhD candidate through UNR's Ecology, Evolution, and Conservation Biology (EECB) program studying how anthropogenic climate change factors such as fire events and drought are altering single leaf pinyon pine community structure, terpene diversity, and how it is affecting indigenous groups who view the pinyon pine as a culturally significant species within the Great Basin.

Education

University of Nevada: PhD of Ecology, Evolution, and Conservation Biology (2021-current)
-Studying community structure of pinyon pine groves within the Great Basin through arthropod community structure
-Working in chemical spectroscopy lab to analyze terpene diversity within pinyon pine needle samples
-Working with indigenous groups of the Great Basin to collaborate on historical stewardship practices and how they are affecting groves today and how these practices could be implemented in the future

University of Nevada: Bachelor of Science in Biology (2014-2020)

-Major in biology and minor in anthropology -College of Science Dean's List

Andes and Amazon Field School (2019)

-Multi-day experience visiting a Huaroni community including transportation via dugout canoe -
Participated in Kichwa cultural activities -Field research involving herbivory rates on endemic plants

Experience

Lead Field Research, Earthwatch (July 2023)

-Led two days of field research with Earthwatch team in the Great Basin

Consultant, University of Nevada Writing and Speaking Center (August 2018- May 2020)
-Assisted students with their personal and academic papers and speeches -Led discussions on the formatting of scientific papers

Independent study at the University of Nevada, Reno (Fall 2019-Spring 2020)
-Measured herbivory rates on thin leaf alder along the Truckee River in the High Sierra Nevada

Volunteered with PhD students at University of Nevada, Reno (Fall 2019)
-Collected hemp samples for chemical analysis

Field Research Technician, Earthwatch (June 2019- July 2019)
-Collected field data for HerbVar (a global study of variability in herbivory) in Ecuador

Skills

Experienced in writing reports, managing project deadlines, and working autonomously

Effective, punctual, and professional communication

Proactive and compassionate work ethic

Familiar with Windows, Apple, and Google operating systems and statistical programs including Excel and R

Ability to run GC-MS and NMR Instruments

Publications

“Good Things Come in Larger Packages: Size Matters for Adult Fruit-Feeding Butterfly Dispersal and Larval Diet Breadth,” Diversity, December 2021

Outreach and Service

Member of Bi-State Tribal Natural Resources Committee (BTNRC) (Fall 2022-current)
-The purpose of the Committee is to educate and facilitate communication between tribes and land management agencies. It provides a forum for tribal members and tribal representatives to address concerns in the Bi-state area east of the Sierra Nevada, east of Carson City to the White Mountains and advocate for sound management of natural and cultural resources that would include tribal cultural values -Pinyon pine sub-committee -Traditional Ecological Summit (TEK) planning committee (Summer 2025)

Undergraduate mentor (Spring 2023-current)
-Working on how to structural determine molecules within the genus Piper to add to research being conducted through the Hitchcock Center for Chemical Ecology -Helped undergraduate student with their senior thesis -Aid applying to graduate school

Volunteer for Lahontan Audubon Society (Fall 2024-current)

-Reno Gay Pride Festival-Lahontan Audubon booth -Reno Community Bird Count

Volunteered for the University Natural History Museum, University of Nevada, Reno (Spring 2025)

-Provided information to the public on native plant species and pollinators for a Spring event for an event titled “Pollinators and Popsicles”

Presented for Truckee Meadows Park Foundation (March 19, 2025)

-Presenting on my research and the importance of the Great Basin’s mosaic of ecosystems

Presented for Science in the Wild (April 2024)

-Presented on my research and the importance of the Great Basin’s mosaic of ecosystems

Volunteered at the University Natural History Museum, University of Nevada, Reno (Spring 2024)

-Provided information on endemic species of the Great Basin during a National Women’s Day event at the museum

Presented for Great Basin Institute (December 2023)

-Presented on my research and the importance of the Great Basin’s mosaic of ecosystems

Biodiversity Researcher for Truckee Meadows Parks Foundation (May 2020- December 2020)

-Contributions highlighted through social media on November 8, 2020

Volunteer at the University Natural History Museum, University of Nevada, Reno (2019)

-Reared diverse species of caterpillar for display and for educational purposes for the museum

Conferences and Symposia

Entomology Society of America Conference (November 2025)

-Presented a 10-minute presentation on anthropogenic climate change and its effects on herbivorous arthropods within the pinyon pine-juniper communities of the Great Basin and its how this affects indigenous groups of the Great Basin

Society of Ethnobiology Conference (May 2025)

-Presented a 10-minute presentation on how a departure from Traditional Stewardship has affected the herbivorous arthropods within the Great Basin’s Pinyon Pine-Juniper Community

Entomology Society of America Conference (November 2024)

-Presented a poster on anthropogenic climate change and its effects on herbivorous arthropods within the pinyon pine-juniper communities of the Great Basin

Hitchcock Center for Chemical Ecology Symposium (May 2024)

Hitchcock Center for Chemical Ecology Symposium (June 2023)

-Presented a poster on how extreme fire events are affecting terpenes and arthropod diversity within pinyon pines of the Great Basin

Scholarships, Fellowships, and Grants

Diana Hadley-Lynch Scholarship (Fall 2024-Spring 2025)

Nevada Women's Fund Scholarship (Fall 2022-Spring 2025)

Hitchcock Chemical Ecology Center Fellowship (Summer 2023-Spring 2024)

Robert Dickenson Scholarship (Fall 2023-Spring 2024)

Pacific Pharmaceutical Service Scholarship (Fall 2022-Spring 2023)