

Jordan Ellison

Cell: (310) 740-5059
jte1@nmsu.edu

Education

jellison8640.github.io/site/

In Progress: M.S. in Fish, Wildlife and Conservation Ecology — Expected Graduation: May 2023

New Mexico State University — Las Cruces, NM

B.A. with Distinction in Organismal Biology & Ecology — May 2019

Colorado College — Colorado Springs, CO

Research

Effects of Spatial Patterns on the Reproduction of Burrowing Owls — September 2021-Present

NMSU — *Principal Investigators: Dr. Martha Desmond and Dr. Fitsum Abadi Gebreselassie*

- Assess the spatial patterns of burrowing owl nests across a latitudinal gradient
- Determine the effects of the spatial distribution of Burrowing Owl nests and landscape patterns on Burrowing Owl nest survival and productivity

Impacts of Passive Relocation on Burrowing Owls — January 2021-September 2021

NMSU — *Principal Investigators: Dr. Martha Desmond and Dr. Fitsum Abadi Gebreselassie*

- Designed and developed a project to assess the impacts of passive relocation on the survival, reproduction and dispersal of Burrowing Owls around Phoenix, AZ
- Helped communicate with stakeholders, state game and fish agency members, and non-profit collaborators to launch a project

Predation Impacts on Flammulated Owls Nest Success and Habitat Selection — Fall 2018-Spring 2019

Colorado College — *Principal Investigator: Dr. Brian Linkhart*

- Undergraduate thesis: "The Rodent Eats the Raptor: Impacts of Red Squirrels (*Tamiasciurus hudsonicus*) on Flammulated Owl (*Psiloscops flammeolus*) Nest Success and Habitat Selection"
- Completed distance sampling along line transects to estimate Red Squirrel density
- Used R to analyze a large dataset associated with a long-term ecological study on Flammulated Owl

Professional Experience

Graduate Research Assistant — January 2021-Present

Las Cruces, NM — New Mexico State University

- Assist in the design and development of a scientific project to assess the impacts of passive relocation on Burrowing Owls
- Help communicate with stakeholders, state game and fish agency members, and non-profit collaborators to help launch a project
- Compile and summarize previously collected data in preparation for analysis

Waterbird Monitoring Program Conservation Intern — January 2020-June 2020

Bahía de Kino, Sonora, Mexico — Prescott College Kino Bay Center

- Completed standardized surveys to monitor the status of waterbirds in the region
- Model long-term data from recurring surveys to infer trends in waterbird abundance over time
- Collaborated with other internal community and conservation programs (Marine Mammal Monitoring, Environmental Education, etc.)

Fall Raptor Migration Technician — August 2019-October 2019

Chelan, WA — HawkWatch International

- Identified and counted migrating diurnal raptors in-flight
- Trapped raptors using lure birds and mist nets, Dho-ghazza nets and bow nets

- Presented raptors-in-hand to teach visiting college students and members of the general public about raptor ecology and conservation
- 24 raptors banded, several more handled

Field Technician — May 2017-August 2019

Colorado Springs, CO — Colorado College Department of Organismal Biology & Ecology

- Searched for and monitored Flammulated Owl nest as part of a long-term demography study
- Captured, handled and processed adults and nestlings
- Crew leader in 2019; mentored and taught field skills to new technicians
- ~60 owls banded, ~30 blood samples taken, 7 GPS tags attached (backpack method)

Volunteer Banding Assistant— Summers 2018-2019

Woodland Park, CO — Institute for Bird Populations MAPS Program Banding Station

- Assisted in mist-netting and processing of songbirds following MAPS protocol
- ~20 songbirds banded and extracted from mist nets

GIS Lab Technician — August 2017-May 2019

Colorado Springs, CO — Colorado College Office of Information Technology

- Troubleshoot and problem solved to teach students basic to advanced geospatial skills and analyses
- Created, analyzed and managed large vector and raster datasets across various databases
- Communicated and visualized geographical information across various disciplines
- Prepared workflows and labs, as well performed demonstrations for classes

Teaching Experience

Program Assistant — October 2019-December 2019

Costa Rica and Belize — Colorado College Fall Semester Away Program

- Helped plan and supervise daily lessons and activities for an introductory tropical ecology course
- Communicated biological and ecological themes and theories to first-year students
- Found and identified a variety of plants, birds, insects, fish and other animals in tropical forests and coral reefs

Student Tutor— Fall 2017

Colorado Springs, CO — Colorado College Department of Organismal Biology & Ecology

- Conducted group review sessions for an introduced ecology class
- Individually worked with students to review before tests and quizzes

Conference Presentations

Ellison, J.T. and Linkhart, B.D, Effect of Nest Predation on Nest Site Selection of Flammulated Owls (*Psiloscoops flammeolus*). Poster Presentation at 2020 North American Ornithological Conference, Virtual. August 2020.

Ellison, J.T. and Linkhart, B.D, The Rodent Eats the Raptor. Oral Presentation at Colorado College's annual Organismal Biology and Ecology meeting. Colorado Springs, CO. March 2019.

Ellison, J.T. and Linkhart, B.D, Does risk of predation affect nest site selection of Flammulated Owls (*Psiloscoops flammeolus*)? Poster Presentation at Midstates Undergraduate Research Symposium, University of Chicago, Chicago, IL. November 2018.

Ellison, J.T. and Linkhart, B.D, How does proximity to predator activity centers affect nest site and success in Flammulated Owls (*Psiloscoops flammeolus*)? Poster Presentation at GIS in the Rockies, Geospatial Conference of the Rocky Mountain West, Denver, CO. September 2018.

Ellison, J.T. and Linkhart, B.D, How does proximity to predator activity centers affect nest site and success in Flammulated Owls (*Psiloscoops flammeolus*)? Poster Presentation at Colorado Springs Undergraduate Research Forum (CSURF), Colorado Springs, CO. April 2018.

Dorwart, L.D., **Ellison, J.T.**, Linkhart, B.D, Stein, E.S., Environmental and ecological impacts of Flammulated Owls (*Psiloscoops flammeolus*) in the Pikes Peak Region. Poster Presentation at Summer Collaborative Research Symposium, Colorado Springs, CO. September 2017.

Skills

- Safely capture, handle and process diurnal raptors, small owls and songbirds
 - Identify North American birds by sight and sound
 - Identify various herbs, shrubs, and trees found in Western North America
 - Design and perform standardized surveys for plants and animals (ie. point-counts, point-quarter, etc.)
 - Apply statistics to answer biological questions
 - Proficient with R to manipulate, analyze and visualize data
 - Work efficiently with Geographic Information Systems (GIS) using ESRI Products
 - Functional knowledge to work with and analyze spatial data in R
 - Proficient in Microsoft Office in English and Spanish
 - Fluency in speaking and writing Spanish
-

Awards

Gratis Membership, American Ornithological Society (AOS) — September 2020

Awarded in place of NAOC 2020 travel award in support of Diversity and Inclusion

Student Membership Award Recipient, American Ornithological Society (AOS) — January 2020

The Jim Enderson Award in Conservation Biology, Colorado College Dept. of Organismal Biology & Ecology — May 2019

This award in honor of Professor Jim Enderson is awarded to a student who has shown commitment and productivity in an original research project in conservation biology.

Workshops

Spatial Analyses in ArcMap – NMSU FWCE Graduate Student Organization — November 2021

Presented on the following topics: raster analysis and generating summaries of spatial data.

Telemetry Skills Workshop – NMSU Women of Wildlife (WOW) — April 2021

Assisted in teaching small groups of undergraduate students the basics of radio telemetry

GIS in R – NMSU FWCE Graduate Student Organization — April 2021

Presented on the following topics: Processing and analyzing LiDAR data in R, generating NDVI from LANDSAT imagery, and how to create an inset map

Mentorship Experience

ENHANCEMENT (Enhancing Hispanic Access to Natural Resource and Agricultural Careers through Education, Mentorship, and Training) – NMSU College of Agricultural, Consumer and Environmental Sciences — Spring 2021 - Present

Graduate student mentor in which we help engage Hispanic/Latinx undergraduate in 2-year and 4-year programs

NMSU Women of Wildlife (WOW) — Spring 2021 – Present

Assist in leading and organizing events to engage undergraduate students such as through skills workshops and nature walks

Scientific Communication Presentations

“Working in Wildlife” — NMSU-Alamogordo. — April 2021

Presentation on my work and career path to 2-year and 4-year NMSU undergraduates

“The Life of a Professional Bird Nerd” — Women in Stem Lecture Series - Oyster Adams Bilingual Middle School in Washington, D.C. — March 2021

Presentation on my work and career path to a middle school Women in STEM club

Professional Affiliations

American Ornithological Society (AOS)

Raptor Research Foundation (RRF)

Society Advancing Chicanos/Hispanics & Native Americans in Science (SACNAS)

Professional Development

Diversity Preview Weekend Participant - Cornell University — September 2020

Depts. of Ecology & Evolutionary Biology and Entomology, and School of Integrative Plant Sciences

Invited Workshop Participant - PROGRESS (PROmoting Geoscience Research, Education and SucesS) — October 2016

Other Work Experience

Student Photographer — August 2018-May 2019; August 2016-May 2017

Colorado Springs, CO — Colorado College Office of Communications

- Photographed school events, activities and daily life for print and online publications

Resident Advisor — August 2017-May 2018

Colorado Springs, CO — Colorado College Office of Residential Life and Activities

- Built an inclusive community supporting 23 first- and second-year students in a large residence hall

Tour Guide — September 2016-September 2017

Colorado Springs, CO — Colorado College Office of Admissions

- Represented Colorado College while providing campus tours to prospective students and parents

Painting Intern — Summer 2016

Colorado Springs, CO — Leiser Painting

- Prepped and painted the interior/exterior of residential and commercial properties
-

***References available upon request.**
