

Caitlyn C. Oliver Brown

Curriculum Vitae

Department of Biology, University of New Mexico, Albuquerque, NM

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EDUCATION

- 2024-present **PhD Biology**
Department of Biology, University of New Mexico
Advisor: Dr. Michael Andersen
- 2021-2024 **MSc Biology**
Department of Biology and Wildlife, University of Alaska Fairbanks
Thesis title: *Divergence and adaptation in Alaska birds*
Advisor: Dr. Kevin Winker
- 2014-2019 **BSc Biology**, concentration in ecology and evolution, *summa cum laude*
Department of Biology, San Jose State University
Advisor: Dr. Ben Carter

PROFESSIONAL EXPERIENCE

- 2021- 2024 Graduate curatorial assistantship, University of Alaska Museum
- Prepared ~300 museum bird specimens.
 - Collected over 140 specimens over two field expeditions.
 - Assisted with general curatorial duties in the museum.
- 2021 Wildlife Technician, University of Wisconsin Madison
- Deployed acoustic recording units to determine the presence of owl species.
 - Independent field work in the Sierra Nevada Mountains.
- 2020 Field Technician, USGS Western Ecological Research Center
- Group and individual work collaring and tracking Greater Sage-Grouse.
 - Remote field work in Nevada and California.
- 2019 Summer Intern, Siskiyou Deer and Puma Project
- Assisted with capturing and processing mule deer fawns in Cascade Mountains

PUBLICATIONS

In review/revision:

Oliver Brown, C.C., T.C. Glenn, & K. Winker. In review. Gene flow accompanies divergence in Beringian birds.

Oliver Brown, C.C., K.A. Collier, K.K. Mills, F. Spaulding, T.C. Glenn, C.L. Pruett, & K. Winker. *In revision.* Evidence of positive selection and a novel phylogeny among five subspecies of song sparrow (*Melospiza melodia*) in Alaska. *PeerJ*.

PRESENTATIONS

Oliver Brown CC, Collier KA, Mills KK, Spaulding F, Glenn TC, Pruett CL, Winker K. *Evidence of positive selection and a novel phylogeny among five subspecies of Song Sparrow* (*Melospiza melodia*) in Alaska. Alaska Bird Conference; Dec 11-14, 2023. Oral presentation.

Oliver Brown CC, Collier KA, Mills KK, Spaulding F, Glenn TC, Pruett CL, Winker K. *Phenotypic and genomic variation in five subspecies of Song Sparrow* (*Melospiza melodia*) in Alaska. American Ornithological Society and the Society of Canadian Ornithologists Joint Meeting; Aug 8-12, 2023. Oral presentation.

Oliver Brown, CC, Carter BE. *Testing for population-level morphological variation of museum specimens of Clark's Nutcrackers* (*Nucifraga columbiana*). American Ornithological Society Annual Meeting; June 24-28, 2019. Poster.

TEACHING EXPERIENCE

2023 Ornithology (BIOL F426), Graduate TA, University of Alaska Fairbanks
- Led laboratory section, designed materials, lectures, and evaluations.

FIELD EXPERIENCE

2023 Alaska: Aleutian Islands, collecting (10 & 14 days)
2021 California: Sierra Nevada Mountains, wildlife technician (3 months)
2020 California & Nevada: wildlife technician (4 months)
2019 California: Cascade Range, wildlife intern (2 months)

GRANTS AND FUNDING

2024 Museum Research Traineeship, University of New Mexico (\$34,000)
2023 UAF Graduate School Travel Grant (\$1500)
2023 ASUAF Travel Grant (\$700)
2023 Betty A. Anderson Memorial for Avian Studies (\$2500)
2023 Jim Stelmock Memorial Scholarship (\$1000)
2023 American Ornithological Society Travel Grant (\$900)
2019 American Ornithological Society Travel Grant (\$400)

TECHNICAL SKILLS

- Curatorial skills: field collection (~140 specimens), museum preparation (~300 specimens)

- Bioinformatics software: GATK, Phyluce, δaδi
- Computer skills: command line, R programming, Python scripting
- DNA extraction
- Remote field work

SERVICE & OUTREACH

- 2022-2024 Letters to a Pre-Scientist pen-pal (www.prescientist.org/)
- Wrote letters to elementary students about science and STEM career paths

University of Alaska Museum

- 2023 Halloween at the Museum
- Educated over 400 museum visitors using museum specimens.
- 2023 Family Day- Feathers
- Educated over 200 museum visitors using museum specimens.
- 2023 Museum Open House
- Showcased specimen preparation to over 1200 museum visitors.

University of Alaska Fairbanks

- 2022 Outreach Coordinator, Biology Graduate Student Association
- Coordinated communication among biology graduate students about events and meetings.
 - Acted as liaison between graduate students and faculty on department issues.
- 2022-2023 Planning Committee, Midnight Sun Science Symposium
- Organized hybrid in-person and online symposium showcasing student research.
 - Hired keynote speakers and advertised the event to the community.

San Jose State University

- 2018-2019 Volunteer curatorial work, Vertebrate Collections
- Digitized a ~5000 specimen catalogue.

Society Memberships

American Ornithological Society
Society for the Study of Evolution

ACADEMIC AWARDS

President's Scholar, San Jose State University (Spring 2015, Spring 2019)
Dean's Scholar, San Jose State University (Fall 2015, Spring 2016, Fall 2016)