

Jeffrey D. Haight, PhD

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Education

PhD in Environmental Life Sciences (2018 – 2023)

Arizona State University, School of Life Sciences, Tempe, AZ

MS in Ecology, graduate minor in Climate Adaptation Science (2016 – 2018)

Utah State University, Department of Watershed Sciences, Logan, UT

BS in Environmental Science & Management (2012 – 2014)

University of California, Davis, CA

AA in Economics; AA in Liberal Arts: Math & Science (2007 – 2012)

Contra Costa Community College, San Pablo, CA

Research Experience

Postdoctoral Researcher (2023 – Present)

Arizona State University, Global Institute of Sustainability and Innovation, Tempe, Arizona, USA

- Conducting integrative social-ecological research in urban spatial ecology within the Central Arizona-Phoenix Long-Term Ecological Research (CAP LTER) program
- Producing and analyzing long-term geospatial datasets to improve understanding of how human-environment interactions shape urban ecosystems and advance the central research aims of CAP LTER

Graduate Researcher (2018 – 2023)

Arizona State University, School of Life Sciences, Tempe, Arizona, USA

- Established and maintained camera trap network across the Phoenix Metropolitan Area and led a team of undergraduate researchers in species identification
- Conducted spatial analyses of wildlife communities using GIS and R
- PIs: Drs. Jesse Lewis and Sharon Hall, Arizona State University

Graduate Research Assistant (2016 – 2018)

Utah State University, Ecology Center and Department of Watershed Sciences, Logan, Utah, USA

- Mapped potential shifts in climate space and landscape connectivity across Utah's ecoregions, in partnership with the Utah Division of Wildlife Resources. Modeled the prioritization of conservation efforts in light of projected regional change
- PI: Dr. Edd Hammill, Department of Watershed Sciences

Research Technician (2016)

USDA Forest Service, Salyer, California, USA

- Conducted field surveys aimed at monitoring the status of Northern Spotted Owls populations in Northern California. Surveys primarily involved extensive observations of owl behavior, navigation across difficult terrain, and the recording of thorough field notes.
- Employment via Colorado State University
- PI: Dr. Alan Franklin

Field Technician (2015)

USDA Forest Service, Pacific Southwest Research Station, Davis, California, USA

- Conducted field surveys (transect sampling and broadcast surveys) focusing on woodpecker nesting and foraging behavior in post-fire landscapes of the Central Sierra Nevada, CA. Additional tasks included vegetation assessment, establishment of experimental plots for monitoring wood-boring beetle activity, and database entry and management.
- Employed as a recent graduate Fellow of the Oak Ridge Institute for Science and Education
- PI: Dr. Angela D. White, USDA Forest Service

Field Technician (2014 – 2015)

University of California – Davis, Dept. of Wildlife, Fish and Conservation Biology, Davis, California, USA

- Managed experimental plots at a variety of agricultural field sites around Yolo County, CA. Conducted visual assessments of plant health, collected crop samples, and sorted and analyzed collected samples.
- PI: Dr. Sara Kross, UC Davis and the Nature Conservancy

Research Assistant (2014)

Operation Wallacea, Guyana

- Worked as part of an expedition team conducting a general biodiversity assessment of tropical lowland forests in central Guyana. Responsibilities included mist netting for birds and bats, transect sampling for herptiles, invertebrates, and large animals, and data recording/entry.

Undergraduate Research Assistant (2013)

University of California – Davis, Dept. of Wildlife, Fish and Conservation Biology, Davis, California, USA

- Assisted with monitoring of the breeding ecology of wood duck populations in Yolo County. Tasks included taking measurements of egg size and morphological traits of breeding adults and attaching bands for identification.
- PI: Dr. John Eadie, UC Davis Department of Wildlife, Fish, & Conservation Biology

Undergraduate Research Assistant (2013)

University of California – Davis, Dept. of Environmental Science & Policy, Davis, California, USA

- Assisted with research looking at evaluating the basic assumptions of species distribution models. Responsibilities included maintenance of experimental plant population in climate-controlled chambers, data collection (observations of plant phenology and biomass), and preliminary data analysis.
- PI: Dr. Mark Schwartz, UC Davis Department of Environmental Science & Policy

Teaching Experience

Instructor

Arizona State University, School of Life Sciences, Tempe, AZ

2020-2021 Research in Urban Ecology

Graduate Teaching Assistant

Arizona State University, School of Life Sciences, Tempe, AZ

2022 Methods in Conservation Biology & Ecology (BIO 494)

2018 & 2021 General Biology - Lab (BIO 182)

2020 Conservation of Biodiversity (BIO 322)

2019-2020 General Biology - Lecture (BIO 281 & 282)

2022 & 2023 Fundamentals of Ecology (BIO 320)

Utah State University, Department of Watershed Sciences, Logan, UT

2017 Biodiversity & Sustainability

Tutor

Contra Costa College, San Pablo, CA

2010-2012 General Chemistry and General Biology

Publications

Haight, Jeffrey D., Sharon J. Hall, and Jesse S. Lewis (In Prep). Mammal communities vary across seasons based on urbanization and dynamic landscape heterogeneity. Expected submission for review in March 2024.

Haight, Jeffrey D., Kelli L. Larson, Jeffrey A. Brown, Sharon J. Hall, and Jesse S. Lewis (2023). Social-ecological drivers of metropolitan residents' comfort living with wildlife. *Frontiers in Conservation Science* 4, 1248238. <https://doi.org/10.3389/fcosc.2023.1248238>.

Haight, J. D., S. J. Hall, M. Fidino, S. A. Adalsteinsson, A. A. Ahlers, J. Angstmann, W. J. B. Anthonysamy, E. Biro, M. K. Collins, B. Dugelby, T. Gallo, A. M. Green, L. Hartley, M. J. Jordan, C. A. M. Kay, E. W. Lehrer, R. A. Long, B. MacDougall, S. B. Magle, D. E. Minier, C. Mowry, M. Murray, K. Nininger, M. E. Pendergast, K. R. Remine, T. Ryan, C. Salsbury, C. J. Schell, Ç. H. Şekercioğlu, C. J. Shier, K. C. Simon, C. C. St. Clair, T. Stankowich, C. J. Stevenson, L. Wayne, D. Will, J. Williamson, L. Wilson, A. J. Zellmer, and J. S. Lewis (2023). Urbanization, climate and species traits shape mammal communities from local to continental scales. *Nature Ecology & Evolution*. <https://doi.org/10.1038/s41559-023-02166-x>

Bates AE, Primack RB, Biggar BS, Bird TJ, **et al.** (2021). Global COVID-19 lockdown highlights humans as both threats and custodians of the environment. *Biological Conservation*, 263 (Nov), 109175. <https://doi.org/10.1016/j.biocon.2021.109175>.

Justin P Suraci, Kaitlyn M Gaynor, Maximilian L Allen, Peter Alexander, Justin S Brashares, Sara Cendejas Zarelli, Kevin Crooks, L Mark Elbroch, Tavis Forrester, Austin M Green, **Jeffrey Haight**, Nyeema C Harris, et al. (2021). Disturbance type and species life history predict mammal responses to humans. *Global Change Biology*. <https://doi.org/10.1111/gcb.15650>.

Haight, Jeffrey and Edd Hammill (2020). Protected areas as potential refugia for biodiversity under climatic change. *Biological Conservation*, 241(May), 108258. <https://doi.org/10.1016/j.biocon.2019.108258>.

Haight, Jeffrey, Akasha Faist, and Sasha Reed (2019). Seed bank community and soil texture relationships in a cold desert. *Journal of Arid Environments* 164, pp. 46-52. <https://doi.org/10.1016/j.jaridenv.2019.01.008>.

Prudencio, L., R. Choi, E. Esplin, M. Ge, N. Gillard, **J. Haight**, P. Belmont, and C. Flint (2018). The Impacts of Wildfire Characteristics and Employment on the Adaptive Management Strategies in the Intermountain West. *Fire* 1 (3), 46. <https://doi.org/10.3390/fire1030046>.

Epperly, J., A. Witt, **J. Haight**, S. Washko, T. Atwood, J. Brahney, S. Brothers, and E. Hammill (2018). Relationships between borders, management agencies, and the likelihood of watershed impairment. *PLOS ONE* 13 (9). <https://doi.org/10.1371/journal.pone.0204149>.

Haight, J.D. (2018). Landscape Planning for Climate Change Resilience in the Southern Rockies. *All Graduate Theses & Dissertations*, 7289. <https://digitalcommons.usu.edu/etd/7289>.

Hammill, Edd and **Jeffrey Haight** (2017). *Prioritizing Ecological Lands for Conservation* (State Report to Utah Division of Wildlife).

Presentations

Haight, Jeffrey D., Kelli L. Larson, Jeffrey A. Brown, Sharon J. Hall, and Jesse S. Lewis. "Social-ecological drivers of metropolitan residents' comfort living with wildlife". Oral presentation at the 2024 Joint Annual Meeting of the AZ-NM Chapters of the American Fisheries Society and The Wildlife Society (February 3rd 2024).

Haight, Jeffrey D., Kelli L. Larson, Jeffrey A. Brown, Sharon J. Hall, and Jesse S. Lewis. "Social-Ecological Drivers of Phoenix Residents' Comfort Living with Wildlife". Oral presentation at the 2023 Annual Meeting of the Ecological Society of America (August 8th 2022).

Haight, Jeffrey D., Sharon J. Hall, and Jesse S. Lewis. "Species richness across seasons varies based on urbanization and dynamic landscape factors". Oral presentation at the 2023 Joint Annual Meeting of the AZ-NM Chapters of the American Fisheries Society and The Wildlife Society (February 4th 2022).

Haight, Jeffrey D., Kelli L. Larson, Jeffrey A. Brown, Sharon J. Hall, and Jesse S. Lewis. "Social-Ecological Drivers of Phoenix Residents' Comfort Living with Wildlife". Poster presentation at the 2022 All-Scientists Meeting of the Long-Term Ecological Research Network (September 24th 2022).

Haight, Jeffrey, Sharon J. Hall, Jesse S. Lewis, Seth Magle, Mason Fidino, Cria Kay, and Urban Wildlife Information Network Partners. “Human-driven landscape changes and species traits shape mammal communities across North American ecoregions”. Oral presentation at the 2022 Annual Meeting of the Ecological Society of America (August 18th 2022).

Haight, Jeffrey, Sharon J. Hall, Jesse S. Lewis, Seth Magle, Mason Fidino, Cria Kay, and Urban Wildlife Information Network Partners. “Human-driven landscape changes and species traits shape mammal communities across North American ecoregions”. Oral presentation at the 2022 Virtual Annual Meeting of the International Association for Landscape Ecology – North America Chapter (April 11th, 2022).

Haight, Jeffrey D., Sharon J. Hall, and Jesse S. Lewis. “Wildlife communities respond to urban landscape characteristics across the Phoenix Metropolitan Area”. Poster presentation at the 2022 All-Scientists Meeting of the Central Arizona-Phoenix Long-Term Ecological Research Program (March 25th 2022)

Haight, Jeffrey, Sharon J. Hall, Jesse S. Lewis, Seth Magle, Mason Fidino, Cria Kay, and Urban Wildlife Information Network Partners. “Continental variation in distributions of mammal communities across urban-rural gradients”. Oral presentation at the 2021 International Urban Wildlife Virtual Conference (May 25th 2021).

Haight, Jeffrey, Sharon J. Hall, and Jesse S. Lewis. “Wildlife communities respond to urban landscape characteristics across the Phoenix Metropolitan Area”. Oral presentation at the 2021 Joint Annual Meeting of the New Mexico and Arizona Chapters of The Wildlife Society and the American Fisheries Society (February 4th, 2021).

Haight, Jeffrey D., Sharon J. Hall, and Jesse S. Lewis. “Urban wildlife communities in relation to ecology and people in a desert city”. Oral presentation to the 2020 Virtual Annual Meeting of the Ecological Society of America (August 5th, 2020).

Haight, Jeffrey D., Sharon J. Hall, and Jesse S. Lewis. “Species Richness of Mammals and Terrestrial Birds Across a Gradient of Urbanization in Central Arizona”. Poster presentation at the 2020 Joint Annual Meeting of the New Mexico and Arizona Chapters of The Wildlife Society and American Fisheries Society (January 31st, 2020).

Haight, Jeffrey, Sharon J. Hall, and Jesse S. Lewis. “Under-representation of community approaches in the study of urban small mammals”. Poster presentation at the International Urban Wildlife Conference 2019, Portland, Oregon, USA (June 3rd, 2019).

Haight, Jeffrey and Edd Hammill. “Evaluating protected areas as broad climate refugia in the Southern Rockies”. Poster presentation at the 103rd Annual Meeting of the Ecological Society of America, New Orleans, USA (August 6th, 2018).

Haight, Jeffrey. “Landscape Planning for Climate Change Resilience in the Southern Rockies”. Thesis Defense Seminar, Logan, Utah (April 19th, 2018).

Haight, Jeffrey and Edd Hammill. “Systematically prioritizing landscape conservation on the basis of climatic vulnerabilities”. Oral presentation at the 2018 Annual Meeting of the International Association for Landscape Ecology - US Chapter, Chicago, Illinois, USA (April 10th, 2018).

Haight, Jeffrey, Jimi Gragg, Eric Edgley, and Edd Hammill (2018). “Using environmental risks to efficiently prioritize landscape management”. Oral presentation at the 2018 Annual Meeting of the Utah Chapter of The Wildlife Society, Vernal, Utah, USA (March 22nd, 2018).

Haight, Jeffrey and Edd Hammill (2017). “Systematically prioritizing the conservation of ecological lands through the use of climate velocities”. Oral presentation at the 102nd Annual Meeting of the Ecological Society of America, Portland, Oregon, USA (August 9th, 2017).

Haight, Jeffrey (2017). “Prioritization of Conservation Lands in Utah”. Oral presentation at the 2017 Watershed Sciences Graduate Research Symposium, Logan, Utah, USA (April 7th 2017).

Areas of Research Interest

Landscape ecology, conservation biology, global environmental change, human-wildlife coexistence, urban ecology, wildlife conservation, restoration ecology, habitat connectivity & fragmentation

Grants and Awards

2024	Reed Sanderson Memorial Award, Arizona Chapter of The Wildlife Society, \$652.52
2022 – 2023	Graduate Completion Fellowship, Arizona State University, School of Life Sciences, \$22,286
2022	Graduate Grant, Arizona State University, Central Arizona-Phoenix Long-Term Ecological Research Program. \$4,000
2020 – 2021	Graduate College Fellowship, Arizona State University, Graduate College. \$10,000
2019	Graduate Grant, Arizona State University, Central Arizona-Phoenix Long-Term Ecological Research Program. \$4,000
2017 – 2018	Research Fellowship, Utah State University, Climate Adaptation Science NSF NRT Program, \$34,000
2017	SEEDS Graduate Alumni Travel Award, Ecological Society of America, \$1,000
2012 – 2013	Jack Pickett Agricultural Scholarship, UC Davis, \$1,000

Professional Affiliations

Ecological Society of America (ESA), member since 2014
International Association for Landscape Ecology (IALE), member since 2017
Society for Conservation Biology, member since 2018
Arizona Chapter of The Wildlife Society, member since 2023

Professional and Public Service

Graduate Student Representative (2019 – 2023)

- Central-Arizona Long-Term Ecological Research (CAP LTER) program, Arizona State University, Tempe, Arizona, USA
- Duties: coordinated professional development events for graduate students associated the Central Arizona Long-Term Ecological Research (CAP LTER) program

Graduate Student Representative (2019-2022)

- Environmental Life Sciences PhD Program, Arizona State University, Tempe, AZ.
- Duties: communicated professional opportunities to graduate students and served on the program recruitment committee evaluating potential PhD student applications

Graduate Executive Board member, Event Coordinator (2020-2022)

- School of Life Sciences, Arizona State University, Tempe, AZ.
- Duties: organized professional development workshops and social events for School of Life Sciences graduate student community

Rehabilitation Volunteer (2020 – 2021)

- Liberty Wildlife, Phoenix, Arizona, USA.
- Duties: assisted in the rehabilitation of wild birds of prey

Graduate Student Council Member, Event Coordinator (2017 – 2018)

- Quinney College of Natural Resources, Utah State University, Logan, Utah, USA
- Duties: organized weekly discussions, presentations and workshops for graduate students at Utah State University; worked in coordination with the Quinney College of Natural Resources Graduate Student Council

Youth Program Leader (2011 – 2016)

- Northland Nautical Foundation, Richmond, California, USA
- Duties: mentored youth in the local Sea Scout program, taught leadership and career-building skills, and provided training in the maritime profession

Rehabilitation Volunteer (2013 – 2015)

- California Raptor Center, Davis, California, USA
- Duties: assisted in the rehabilitation of wild birds of prey and educated the public about raptor biology and ecology

Research Coordinator & Treasurer (2013-2014)

- UC Davis S.E.E.D.S. chapter of the Ecological Society of America, Davis, California, USA.
- Duties: facilitated the placement of undergraduate students in ecology research assistantships at UC Davis, wrote grant applications, and organized educational club field trips

Sample Coursework

Graduate:

Landscape Ecology, Applied Population & Habitat Ecology, Social Science Research Methods, Sustainability Science, Wildland Ecosystem Management, Prioritizing Conservation and Management Actions, Machine Learning, Modeling Human-Environment Systems, Biometry, Environmental Risk & Decision-Making, Leadership & Followership

Undergraduate:

Conservation Biology, Aerial Photo Interpretation & Remote Sensing, Field & Laboratory Methods in Ecology, Environmental Monitoring, Environmental Impact Assessment, Restoration Ecology, Trees & Forests, Population Dynamics & Estimation

Academic Honors

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| 2014 | Graduate <i>summa cum laude</i> , UC Davis |
| 2014 | Citation for Outstanding Performance in Environmental Science and Management, Department of Environmental Science & Policy, UC Davis |
| 2012 – 2014 | Dean's List, College of Agricultural and Environmental Sciences, UC Davis |
| 2012 – 2013 | First Year Scholar, UC Davis |
| 2012 | President's Scholar (Graduate with Honors), Contra Costa College |