

Allison Huysman

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EDUCATION

- PhD in Entomology** Aug 2023-Present
University of Maryland, College Park, MD
4.0 GPA
Advisor: Daniel S. Gruner
- MSc in Natural Resources – Wildlife** Dec 2019
Cal Poly Humboldt (formerly Humboldt State University), Arcata, CA
4.0 GPA
Advisor: Matthew D. Johnson
- BSc in Natural Resources and Animal Science** May 2015
Cornell University, Ithaca, NY
3.67 GPA, *cum laude*
Minors in Spanish and Latin American Studies

PROFESSIONAL EXPERIENCE

- 2020-2023** **Smithsonian Migratory Bird Center and Georgetown University**
Research Technician/Research Affiliate
- Migratory Connectivity Project: General project support including outreach, field work, website updates, and data management and analysis
 - *Atlas of Migratory Connectivity for the Birds of North America*: book to be published by Princeton University Press
 - Modeled and mapped tracking data for book; included processing over 450 datasets
 - Wrote text for species accounts by summarizing literature on migration and migratory connectivity for each species
 - Contacted data holders for contributions to book
- 2017-2019** **Cal Poly Humboldt**
Graduate Research Assistant
- Occupancy and movement analysis to determine how wildfires affect barn owls' ability to provide rodent pest control as an ecosystem service
 - Monitored 297 nest boxes on private lands throughout Napa Valley for occupancy by breeding barn owls; attached GPS transmitters to barn owls to learn about their hunting habitat selection before and after wildfires

- Communicated with private landowners to determine research objectives that would maximize their use of barn owls as pest control on farms
- Managed Facebook and Instagram accounts (930 followers) to share findings with public and landowners

2017- Wright Wildlife Refuge

2019 *Bird Bander and Education Coordinator*

- Managed MAPS (Monitoring Avian Productivity and Survivorship) bird banding station at wildlife refuge, hired 5 undergraduate interns each season, and provided training on field methods for bird banding
- Coordinated and led educational demonstrations for classes including Cal Poly Humboldt's undergraduate ornithology class and local elementary schools

2015- Smithsonian Migratory Bird Center

2017 *Research and Education Intern*

- Migration banding and education at Mad Island Marsh Preserve, TX: songbird banding during spring migration on Texas coast; created curriculum and taught as education coordinator for 600 students and adults
- Outreach for Bridging the Americas and Urban and Neighborhood Nestwatch: coordinated programs with teachers, created Spanish and English educational materials used in classrooms in the US and Central America, taught about bird research and led bird banding demonstrations and games with approximately 1,200 children in grades 2-8 at schools and private homes in Washington, DC area
- Gray catbird research in Washington, DC: banded and bled adults and nestlings, resighted banded birds, recorded song, monitored nests, and deployed and collected geolocators along a rural to urban gradient
- National Zoo banding and outreach: banded songbirds and presented during impromptu and planned demonstrations to zoo visitors
- Migratory Connectivity Project: literature review on migratory connectivity of all migratory bird species in North America for *Atlas of Migratory of Connectivity for the Birds of North America*

PUBLICATIONS

Peer-reviewed

7. Scarpignato, A. L., **A. E. Huysman**, M. F. Jimenez, C. J. Witko, A.-L. Harrison, N. E. Seavy, M. A. Smith, J. L. Deppe, C. B. Wilsey, and P. P. Marra. 2023. Are tracking data available to inform North American migratory bird conservation?

Biological Conservation. Special Issue: Knowledge Shortfalls in Conservation Science. <https://doi.org/10.1016/j.biocon.2023.110224>.

6. Roberts, A., A. Scarpignato, **A. Huysman**, J. Hostetler, and E. Cohen. 2022. Migratory connectivity of North American waterfowl across administrative flyways. *Ecological Applications* 33(3): e2788. <https://doi.org/10.1002/eap.2788>.
5. Johnson, M. D., **A. E. Huysman**, D. A. St. George, D. Kammerichs-Berke, J. E. Carlino, and B. R. Estes. 2022. Wine and Wildlife: An exploratory study of the depiction of animals on wine labels available in the United States. *Journal of Food Distribution Research* 53(3): 40-66. <https://www.fdrsinc.org/wp-content/uploads/2023/02/JFDR-November-2022-Full-Issue.pdf#page=44>.
4. **Huysman, A. E.**, N. W. Cooper, J. A. Smith, S. M. Haig, S. A. Heath, L. Johnson, E. Olson, K. Regan, J. K. Wilson, and P. P. Marra. 2022. Strong migratory connectivity indicates Willets need subspecies-specific conservation strategies. *Ornithological Applications* 124(3). <https://doi.org/10.1093/ornithapp/duac015>.
3. **Huysman, A. E.** and M. D. Johnson. 2021. Habitat selection by a predator of rodent pests is resilient to wildfire in a vineyard agroecosystem. *Ecology and Evolution* 11:18216–18228. <https://doi.org/10.1002/ece3.8416>.
2. **Huysman, A. E.** and M. D. Johnson. 2021. Multi-year nest box occupancy and short-term resilience to wildfire disturbance by barn owls in a vineyard agroecosystem. *Ecosphere* 12(3):e03438. <https://doi.org/10.1002/ecs2.3438>.
1. Castañeda, X. A., **A. E. Huysman**, and M. D. Johnson. 2021. Hunting habitat use and selection of Barn Owls (*Tyto alba*) in the urban-agricultural setting of a winegrape growing region of California. *Ornithological Applications* 123(1). <https://doi.org/10.1093/ornithapp/duaa058>.

Manuscripts in review or in final preparation

Marra, P. P., A. L. Scarpignato, A.-L. Harrison, E. B. Cohen, **A. E. Huysman**, et al. Atlas of Migratory Connectivity of the Birds of North America. Princeton University Press. *In prep.*

Other publications

Huysman, A. E. 2019. Ecosystem services after a major ecological disturbance: Did barn owl (*Tyto alba*) nest box occupancy and hunting habitat selection change in response to Napa Valley fires? Master's Thesis, Humboldt State University.

Johnson, M. D. C. A. Wendt, D. St. George, **A. Huysman**, B. R. Estes, and X. A. Castañeda. 2019. Can barn owls help control rodent pests in vineyard landscapes? A review of key questions and suggested next steps. *Proceedings of the 28th Vertebrate Pest Conference*.

Huysman, A., D. St. George, M. Johnson, R. Baldwin, M. Charter, S. Hindmarch, C. Wendt, S. Kross, G. Rozman, P. Rivadeneira, and E. Phillips. 2018. A review of research methods for barn owls in integrated pest management. Technical Report of the BARD Conference on the Use of Barn Owls for Agricultural Pest Control, 5-7 March 2018 at University of California Agricultural and Natural Resources. Published by Humboldt State University, Arcata, California, USA.

HONORS/AWARDS

- 2023-2028** University of Maryland: Flagship Fellowship
- 2023-2024** University of Maryland: Gahan Graduate Student Fellowship
- 2023** American Ornithological Society: Florence Merriam Bailey Award
- 2023** National Science Foundation: Graduate Research Fellowship Program Honorable Mention
- 2018** Calaveras Big Trees Association: Stephen K. Stocking Memorial Scholarship
- 2015** American Society of Animal Science: Scholastic Achievement for Top 10% of Class
- 2015** Cornell University: Morrison Award for Animal Science Students
- 2013** Cornell University: Schwartz Award for Excellence in Agricultural Journalism
- 2012-2015** Cornell University: Dean's List

GRANTS

- 2023** Smithsonian Institution: Life on a Sustainable Planet Pathfinder Award

2022 National Fish and Wildlife Foundation: Chesapeake Small Watershed Grant

PRESENTATIONS

Presentations at Professional Scientific Conferences

2023	American Ornithological Society	London, Ontario
2019	American Ornithological Society	Anchorage, Alaska
2019	The Wildlife Society	Reno, Nevada
2019	Western Section of the Wildlife Society	Yosemite National Park, California
2018, 2019	CSU Agricultural Research Institute	Sacramento, California
2018	Raptor Research Foundation	Kruger National Park, South Africa

Public/Outreach Presentations:

2024	OCH Conservation Foundation Spring Stewardship Event	The Plains, Virginia
2018	Napa Valley Grapegrowers Vit-Tech	Napa, California
2018	Wild Farm Alliance Farmer to Farm Field Day	St. Helena, California
2018	Napa County Resource Conservation District	American Canyon, California

TEACHING

2023	University of Maryland	BSCI 161: Introduction to Ecology and Evolution Laboratory
2014	Cornell University	ANSC 2410: Biology of Reproduction Lab

MENTORSHIP

2024	University of Maryland	Mentored 2 undergraduates during laboratory processing of samples
2024	Smithsonian Virginia Working Landscapes	Mentored 1 undergraduate field intern during data collection for PhD research
2018-2019	Wright Wildlife Refuge	Mentored 10 undergraduates from Cal Poly Humboldt on field methods in bird banding
2018	Cal Poly Humboldt	Mentored 2 field interns during data collection for Master's research

SERVICE

2023-2024	University of Maryland Entomology Department Diversity, Equity, and Inclusion Working Group
2023	Smithsonian National Zoo and Conservation Biology Institute Seminar Series Organizing Committee
2018-2019	Humboldt Wildlife Graduate Student Society Executive Board Fundraising Chair
2018-present	Reviewed scientific papers for <i>Ornithological Applications</i> , <i>Ornithology</i> , <i>Animal Conservation</i> , and <i>Movement Ecology</i> .

SKILLS

Field Research	<ul style="list-style-type: none">• Bird banding for songbirds and raptors (including setting up mist nets and safe extraction of birds)• Nest monitoring; blood sample collection of nestling and adult songbirds• Attachment of geolocators and GPS transmitters
Computer Programs	<ul style="list-style-type: none">• R• ArcGIS• Microsoft Office Suite

**Outreach and
Communication**

- Adobe Applications
- Proficiency in Spanish
- Social media and blog content
- Education event coordination
- Experience recruiting and training seasonal interns

Lab work

- Insect sample processing and identification
- Genomics methods for DNA metabarcoding (DNA extraction, PCR, sequencing)