

Amy Zuckerwise

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University of Michigan School for Environment and Sustainability
440 Church St., Ann Arbor, MI 48109

EDUCATION

University of Michigan	Ann Arbor, MI
School for Environment and Sustainability, <i>Ph.D. Student</i>	2021-2026 (expected)
Yale University	New Haven, CT
School of the Environment, <i>Master of Environmental Science</i>	2018-2020
Stanford University	Stanford, CA
Department of Biology, <i>Bachelor of Science with Honors in Ecology & Evolution</i>	2011-2015

RELEVANT EXPERIENCE

University of Michigan Conservation and Coexistence Group	Ann Arbor, MI
<i>Graduate Research Assistant</i>	2021-present
Conduct and manage research on the impacts of human activity on tiger ecology in the Terai region of Nepal based on GPS collar data, supervised by Professor Neil Carter. Participate in field work, facilitate collaboration with project partners (National Trust for Nature Conservation and IUCN Nepal), plan logistics, analyze fine-scale movement data, and publish peer-reviewed articles.	
California Department of Fish and Wildlife	San Diego, CA
<i>Bobcat Program Environmental Scientist</i>	2020-2021
Designed and conducted remote camera, fecal DNA, and GPS collaring surveys to assess bobcat density and habitat use throughout the South Coast of California to inform statewide management plans. Coordinated across state and federal agencies and engaged with community members.	
IUCN WCPA Beyond the Aichi Targets Task Force	New Haven, CT
<i>Graduate Assistant</i>	2020-2021
Synthesized key messages for the Beyond the Aichi Targets Task Force of the International Union for the Conservation of Nature World Commission on Protected Areas at the 2021 World Conservation Congress in Marseille, France. Also served as a Delegate representing the Tropical Resources Institute and submitted amendments to and voted on proposed motions. Organized and designed the curriculum for the Yale Global Conservation Policy & Planning Study Group.	
Northern Jaguar Project	Tucson, AZ
<i>Research Associate</i>	2020
Individually identified ocelots in Sonora, Mexico from over 10 years of camera trap images and estimated population density using capture-mark-recapture models.	
Yale University Tropical Resources Institute	New Haven, CT
<i>Research Fellow</i>	2019-2020
Investigated the integration of conventional scientific methods with indigenous and local knowledge to monitor ocelot populations in the Bolivian Amazon using remote cameras, traditional animal tracking, and occupancy models. Implemented in collaboration with the Wildlife Conservation Society and field staff from Tsimane-Mosetene and Tacana indigenous communities.	

Sapphos Environmental, Inc. Pasadena, CA
Biological Resources Coordinator 2016-2018
Evaluated, monitored, and mitigated impacts to rare and endangered wildlife and plant species and habitats for both public and private projects pursuant to environmental regulations.

Felidae Conservation Fund Mill Valley, CA
Research and Education Intern 2016
Conducted field work on puma and bobcat ecology, processed and managed data, presented to the public, assisted with outreach events, and coordinated with state and federal agencies, local organizations, and schools.

National Park Service Thousand Oaks, CA
Research Intern 2011
Participated in bobcat and puma live trapping, examination, and GPS collaring; remote camera photo analysis; roadkill mortality surveys; and stream surveys throughout the Santa Monica Mountains.

SELECTED ARTICLES & PRESENTATIONS

Carter, N.H., **Zuckerwise, A.**, Pradhan, N.M.B., Subedi, N., Lamichhane, B.R., Hengaju, K.D., Acharya, H.B., Kandel, R.C. (2023). "Rapid behavioral responses of endangered tigers to major roads during COVID-19 lockdown." Article. *Global Ecology and Conservation*, 42, e02388.
<https://doi.org/10.1016/j.gecco.2023.e02388>

Zuckerwise, A. (2021). "Tracking the tigrillo: indigenous and local knowledge improves conventional surveys for ocelot occupancy in the Amazon." Presentation. Ecological Society of America (ESA) Annual Meeting, Long Beach, CA.

Zuckerwise, A. (2021). "Bobcats: the wildcats next door." [Invited lecture](#). UC Santa Barbara Sedgwick Reserve and Santa Ynez Natural History Society, Santa Ynez, CA.

Zuckerwise, A. (2020). "Indigenous and local knowledge systems in wildlife conservation science." [Article](#). *Tropical Resources* 39, Tropical Resources Institute, New Haven, CT.

Zuckerwise, A. (2019). "Private forests, public good: threats to forest protection laws endanger wildlife." [Article](#). Yale Environment Review, New Haven, CT.

Zuckerwise, A. (2019). "Urbanization & Human-Wildlife Conflict in the West." [Blog post](#). Ucross High Plains Stewardship Initiative, New Haven, CT.

Zuckerwise, A. (2018). "Ecotourism is good for cheetahs? Not so fast." [Article](#). Yale Environment Review, New Haven, CT.

Zuckerwise, A. (2015). "Bobcat distribution and abundance at Jasper Ridge Biological Preserve in Northern California." Honors thesis. Stanford University, Stanford, CA.

LEADERSHIP & SERVICE

<i>President, Society for Conservation Biology, University of Michigan Chapter</i>	2021-present
<i>Speaker Chair, University of Michigan SEAS Doctoral Organizing Committee</i>	2023-present
<i>President, Society for Conservation Biology, Yale Chapter</i>	2019-2020
<i>Conference Coordinator, International Society of Tropical Foresters</i>	2018-2020

<i>Conservation Biology Teaching Fellow, Yale Department of Biology</i>	2019
<i>Symposium Coordinator, Ucross High Plains Stewardship Initiative</i>	2018-2019
<i>President, ESA Strategies for Ecology Education and the Environment, Stanford Chapter</i>	2013-2015
<i>Commissioner, City of Calabasas Environmental Commission</i>	2010-2011

AWARDS & HONORS

Employee Team Award for Scientific Excellence, <i>California Department of Fish and Wildlife</i>	2021
SEEDS Graduate Alumni Award, <i>Ecological Society of America</i>	2021
MK McCarthy-RW Worth Scholarship for Leadership in Conservation Science, <i>Yale University</i>	2019
Honors in Biology with a Field of Study in Ecology and Evolution, <i>Stanford University</i>	2015
Phi Beta Kappa, <i>Stanford University</i>	2015
Commendation for Environmental Service, <i>City of Calabasas, California</i>	2011

RESEARCH FUNDING (USD)

Rackham Graduate Student Research Grant (\$1,500), <i>University of Michigan</i>	2023
Schiff Fund for Wildlife Habitat and the Environment (\$9,000), <i>Yale University</i>	2019
Leonard G. Carpenter Fund (\$7,000), <i>Yale University</i>	2019
Research Fellowship (\$5,000), <i>Yale Tropical Resources Institute</i>	2019
Travel Grant (\$750), <i>Yale MacMillan Center Council on Latin American & Iberian Studies</i>	2019
Jasper Ridge Mellon Grant (\$1,500), <i>Stanford Jasper Ridge Biological Preserve</i>	2014
Small Grant (\$1,500), <i>Stanford University</i>	2014

RELEVANT SKILLS

Field research and conservation: quantitative and qualitative geospatial data analysis; wildlife ecology field data collection, including animal trapping, tracking, and remote camera monitoring; wildlife and nature photography; project and budget management; Open Standards for the Practice of Conservation; community engagement; Spanish (conversational)

Software and tools: R, ArcGIS, QGIS, LaTeX, Java, MaxEnt, Circuitscape, PRESENCE, MARK, Marxan, Wildlife Insights, Adobe Photoshop, Microsoft Office and Access

PROFESSIONAL MEMBERSHIPS

- Society for Conservation Biology
- Society for Integrative and Comparative Biology
- Graduate Women in Science
- International Society of Tropical Foresters
- Global Youth Biodiversity Network