

Christine E. Wilkinson

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Education

- Ph.D., 2015-2021 **University of California - Berkeley**, Berkeley, CA
Environmental Science, Policy, and Management
Committee: Maggi Kelly, Justin Brashares, Louise Fortmann, Iryna Dronova
- B.S., 2007-2011 **Cornell University**, Ithaca, NY, *cum laude*
Natural Resources, Applied Ecology

Publications

- Wilkinson, C.E.**, T. Caspi, L.A. Stanton, D. Campbell, and C.J. Schell. *In Review*. Conflict across space and time: Social-ecological patterns within a decade of human-coyote interactions in San Francisco. *People and Nature*.
- Stanton, L.A., **C.E. Wilkinson**, L. Angeloni, S. Benson-Amram, C.J. Schell, and J.K. Young. *In Review*. Behavior, cognition, and human-wildlife conflict. In *Urban Biodiversity and Equity: Conservation, Management, and Environmental Justice in Cities*. Eds. Max R. Lambert, Christopher J. Schell. Oxford University Press.
- Wilkinson, C.E.**, A. Dheer, S. Bhandari, M. Torrents-Ticó, R. Yarnell, E. Bar Ziv, T. Zett, A. Jacobson, and S. Dloniak. *In Review*. Review of the global literature on Hyaenidae and implications for conservation and management. *Mammal Review*.
- Moravek, J., L. Andrews, M. Serota, J. Dorcy, M. Chapman, **C.E. Wilkinson**, P. Parker-Shames, A. Van Scoyoc, G. Verta, and J.S. Brashares. *In Press*. Centering 30x30 conservation initiatives on freshwater ecosystems. *Frontiers in Ecology and the Environment*. doi: 10.1002/fee.2573
- Wilkinson, C.E.** 2023. Public interest in individual study animals can bolster wildlife conservation. *Nature Ecology & Evolution*. <https://doi.org/10.1038/s41559-023-02009-9>
- Wilkinson, C.E.** 2023. The coyote in the mirror: Embracing intersectionality to improve human-wildlife interactions. *Cell- invited submission for Rising Black Scientists Award*. <https://doi.org/10.1016/j.cell.2023.01.029>
- Harris, N., **C.E. Wilkinson**, G. Fleury, and Z. Nhleko. 2023. Responsibility, equity, justice, and inclusion (REJI) in human-wildlife interactions. *Frontiers in Ecology and the Environment*. <https://esajournals.onlinelibrary.wiley.com/doi/10.1002/fee.2603>
- Wilkinson, C.E.**, P.F. Jones, and A.F. Jakes. 2023. Editorial: Disentangling the complexity of fence effects on wildlife and ecosystems. *Frontiers in Conservation Science*, 4: 1147486. <https://doi.org/10.3389/fcosc.2023.1147486>
- Green, A.R., A. Murphy, B.R. Collison, M. Sanchez-Nivicela, H. Anderson, J.L. Morano, T.D. Williams, and **C.E. Wilkinson**. 2022. A response to Cafaro, Hansson & Gotmark (2022): Shifting the narrative from overpopulation to overconsumption. *Biological Conservation*, 273: 109698. <https://doi.org/10.1016/j.biocon.2022.109698>

Calhoun, K., M. Chapman, C. Tubbesing, A. McInturff, K.M. Gaynor, A. Van Scoyoc, **C.E. Wilkinson**, P. Parker-Shames, D. Kurz, and J.S. Brashares. 2021. Spatial overlap of wildfire and biodiversity in California highlights gap in non-conifer fire research and management. *Diversity and Distributions* 28(3):529-541. <https://onlinelibrary.wiley.com/doi/full/10.1111/ddi.13394>

Wilkinson, C.E., J.S. Brashares, A.C. Bett, and M. Kelly. 2021. Examining drivers of divergence in recorded and perceived human-carnivore conflict hotspots by integrating participatory and ecological data. *Frontiers in Conservation Science*, 2: 681769. <https://doi.org/10.3389/fcosc.2021.681769>

Wilkinson, C.E., A. McInturff, M. Kelly, and J.S. Brashares. 2021. Quantifying wildlife responses to conservation fencing in East Africa. *Biological Conservation*, 256: 109071. <https://doi.org/10.1016/j.biocon.2021.109071>

McInturff, A., W. Xu, **C.E. Wilkinson**, N. Dejid, and J.S. Brashares. 2020. Fence ecology: Frameworks for understanding the ecological effects of fences. *BioScience*, 70(11): 971-985. <https://doi.org/10.1093/biosci/biaa103>

Wilkinson, C.E., A. McInturff, J.R.B. Miller, V. Yovovich, K.M. Gaynor, K. Calhoun, H. Karandikar, J.V. Martin, P. Parker-Shames, A. Shawler, A. Van Scoyoc, and J.S. Brashares. 2020. An ecological framework for contextualizing carnivore-livestock conflict. *Conservation Biology*, 34(4): 854-867. <https://doi.org/10.1111/cobi.13469>

In Preparation

Kurz, D., A. Middleton, M. Chapman, K. Van Houtan, **C.E. Wilkinson**, L. Withey, and J.S. Brashares. *In Prep.* Academic-rural conservation partnerships could advance bipartisan U.S. climate policy. Pre-print: <https://ecoevorxiv.org/entgj/>

Wilkinson, C.E., W. Xu, A. Luneng Solli, J.S. Brashares, and M. Kelly. *In Prep.* Spotted hyena landscape navigation on a coexistence frontier.

Sherman, W., C.J. Schell, and **C.E. Wilkinson**. *In Prep.* The wildlife Nextdoor: Social media as a novel data source for urban wildlife ecology.

Other Publications

Wilkinson, C.E. 2021. Life finds a way: Carnivore movements and conflict in developing landscapes. Dissertation. University of California, Berkeley. <https://escholarship.org/uc/item/1w37z33f>

Wilkinson, C.E. with S. Temu. 2017. Social impacts of human-wildlife conflict resolution: Lessons from Living Walls & the PHE Approach. *Northern Tanzania Rangelands Initiative & PHE Affinity Group Analytical Document*.

Wilkinson, C.E., Bonter, D.N., Ellis, J.C., & Stilwell, J. 2011. The influence of age on reproductive success of the herring gull (*Larus argentatus*) on Appledore Island, Maine. *Honors thesis*.

Funding and Awards

Awards

2023 Rising Black Scientists Award: Cell Press, \$11,400

- 2021 The Wildlife Society Publication Awards: Best Student Paper
- 2021 The Wildlife Society Western Section Student Oral Presentation Award, \$150
- 2020 Black Mammalogists Week Funding: American Society of Mammalogists, \$8,440

Fellowships & Scholarships

- 2022 Schmidt Science Fellowship (\$100,000-200,000)
- 2019 Switzer Fellowship, \$15,000
- 2016-2020 National Science Foundation Graduate Research Fellowship, \$166,000
- 2015-2017 Data Sciences for the 21st Century Fellowship
- 2015-2017 UC Berkeley Chancellor's Fellowship for Graduate Study, \$102,000
- 2009-2011 Cornell University & NSF Biology Research Fellowship, \$32,000
- 2007-2009 Cornell University & NSF Undergraduate Research Fellowship
- 2007-2008 Cornell Tradition Fellowship

Research Grants

- 2020 Oliver B. Lyman Wildlife & Fisheries Graduate Student Award, \$260
- 2019 Oliver B. Lyman Wildlife & Fisheries Graduate Student Award, \$900
- 2018 Greenville Zoo grant, \$960
- 2018 National Geographic Society Early Career Grant, \$9,800
- 2018 Center for African Studies Rocca Dissertation Award, \$5,800
- 2018 Oliver B. Lyman Wildlife & Fisheries Graduate Student Award, \$1,000
- 2018 Financial Literacy Conference Scholarship, \$1,000
- 2017 Center for African Studies Rocca Dissertation Award, \$6,000
- 2017 Oliver B. Lyman Wildlife & Fisheries Dissertation Award
- 2017 Society for Conservation Biology Graduate Grant, \$1,000
- 2016 Center for African Studies Rocca Pre-Dissertation Award, \$4,000

Research Experience

- 2022- *Research Associate, **California Academy of Sciences**, San Francisco, CA*
Collaborates with researchers in the Ornithology and Mammalogy Department and the Center for Biodiversity and Community Science to create, iterate upon, and disseminate a One Health-focused database integrating data on environmental health, wildlife health and connectivity, and public health indicators in the Bay Area.
- 2021- *Postdoctoral Researcher, **Schell Lab**, UC Berkeley, Berkeley, CA*
Co-leads and assists in live-trapping efforts for carnivores in the Bay Area, for interdisciplinary research on human-carnivore conflict. Leads community engagement efforts and builds and curates scientific education materials for cultural institution partners. Establishes relationships across the UC system schools and associated carnivore research collaborators globally.
- 2015- 2021 *PhD research, **Lake Nakuru National Park & Soysambu Conservancy**, Nakuru County, Kenya*
Used multidisciplinary ecological and participatory methods to understand carnivore movement and human-carnivore conflict in a densely developed landscape.
- 2017 *Research collaboration, **African People & Wildlife**, Nolo-holo Environmental Center, Tanzania*

- Developed and implemented a study analyzing the social and health impacts of the Living Walls human-carnivore conflict intervention program.
- 2010-2011 *Undergraduate research, Shoals Marine Laboratory, Maine*
Designed and implemented a study on herring gull age-dependent reproductive success for undergraduate thesis.
- 2010 *Research Assistant, Tern Restoration Project, New Hampshire*
Conducted daily behavioral, reproduction, and feeding data for three species of tern.
- 2010 *Undergraduate research, School for Field Studies, Mto wa Mbu, Tanzania*
Researched the impact of human presence and an STI on the sexual behavior of olive baboons.
- 2008 *Undergraduate Research, Cornell University, Ithaca, New York*
Conducted independent research on eastern grey squirrel foraging behavior.
- 2007-2009 *Undergraduate Research, Shoals Marine Laboratory, Maine*
Conducted supervised and independent research on marine plants and wildlife, including algae, limpets, crustaceans, gulls, and seals.

Other Employment

- 2021 *Featured Explorer, National Geographic Live Explorer Academy Adventures: Mammals Week*
Provided expertise on content related to mammal biology, behavior, and conservation for a hybrid television show and summer camp for 8-11 year olds. Co-wrote and edited script for four days of content. Acted as myself in the role of mammal expert alongside co-hosts using both scripted and unscripted content, and promoted the program on social media platforms.
- 2012-2015 *Digital Learning Programs Coordinator, California Academy of Sciences, San Francisco, California*
Created and facilitated after-school science and digital media programs for middle and high school youth.
- 2013-2015 *Regional Representative- Pacific, Girls RISE Museum Network, nationwide*
Represented the Girls RISE (Raising Interest in Science and Engineering) Network, a collaboration funded by NSF that addresses the disadvantages women face in science learning and strives to increase representation of girls and women in STEM through teacher trainings and facilitation.
- 2011-2012 *Field manager, Kasokwa Forest Project, Kibwona, Uganda*
Managed a long-running project on behavior and conservation of chimpanzees, baboons, and other primates, initiated by Dr. Janette Wallis. Managed local staff, collected behavioral and forest degradation data, developed educational materials.

Scientific Mentoring & Teaching

- 2023- *Mentor, Students of Color Environmental Collective, University of California, Berkeley, Berkeley, CA*

Serves as a scientific and personal mentor to an undergraduate student of color interested in environmental science and environmental justice.

- 2021-2022 *Senior thesis mentor, **University of California, Berkeley***, Berkeley, CA
Advised Wilson Sherman on his senior thesis design, implementation, and writing. Serving as senior author on a resulting manuscript to be submitted for publication.
- 2020 *Explorer Instructor, **National Geographic Explorer Classroom***, Global.
Taught lessons on spotted hyenas and human-carnivore conflict for 1000+ 4-8 year olds and 9-14 year olds. (11/9/2020 and 11/12/2020)
- 2020 *Graduate Student Instructor, **American Wildlife: Management and Policy in the 21st Century***, UC Berkeley, CA (Faculty instructor: Dr. A. Middleton)
Designed and taught interactive discussion sections and several lectures for 60 students.
- 2019- *Mentor, **Undergraduate Research Apprenticeship Program***, UC Berkeley
Supervises, teaches, and mentors undergraduate research apprentices in research methods, data organization and analysis, literature review, and ethics. To date, have mentored 14 students in this capacity.
- 2018- *Mentor, **Egerton University***, Nakuru, Kenya
Mentors two Kenyan master's students on their theses, including providing logistical support and training on ecology, wildlife behavior, survey and participatory field research techniques, and data management.

Leadership

- 2023- *Board Member At-Large, **The Wildlife Professional (The Wildlife Society magazine)***, Global
Brainstorms article ideas, solicits articles, and reviews articles for *The Wildlife Professional* magazine. Assists with the selection of the Best Article of the Year.
- 2022-2023 *Diversity, Equity, and Inclusion (DEI) Officer, **Society for Conservation Biology Africa Section***, Global
Developed the DEIJ Officer position and its roles, as well as the Africa Section's first DEIJ strategy.
- 2022-2023 *Guest Editor, **Frontiers in Conservation Science***, Global
Served as guest editor for a special topic: "Disentangling the complexity of fence effects on wildlife and ecosystems".
- 2020- *Co-founder, **Black Mammalogists Week***, Global
Developed, led, coordinated, and secured funding for the first ever Black Mammalogists Week. Website: <https://blackmammalogists.com>
- 2020-2022 *Co-lead, **Coexistence Evaluation Working Group***, based in USA
Worked with agencies, organizations, and researchers to ideate and develop a dynamic tool for evaluating the effectiveness of human-wildlife conflict interventions.

- 2020- 2022 *Lead, **Conflict Reduction Communication Working Group***, Global
Worked across contexts and organizations to develop a communication platform for managers and practitioners working to address human-wildlife conflict.
- 2020-2021 *Development Committee Liaison, **ESPM Graduate Student Association***, Berkeley, CA
Served as a graduate student representative in a group dedicated to communication, organization, and training for development efforts in the department.
- 2019-2020 *Co-President, **ESPM Graduate Student Association***, Berkeley, CA
Led and coordinated the meetings, activities, and initiatives of the department's graduate student association.
- 2019 *Co-Organizer, **Bay Area Conservation Biology Symposium***, Berkeley, CA
- 2018 *Treasurer, **Society for Conservation Biology- Berkeley Chapter***, Berkeley, CA
- 2017-2019 *Liaison, **Graduate Programs Committee (Ecosystem Sciences Division)***, Berkeley, CA
Worked with a committee of faculty and students on department-wide issues, and served on the department's graduate admissions committee.

Service

- Reviewer:* Conservation Science and Practice, Conservation Biology, PLOS ONE, Journal of Zoology, PeerJ, Environmental Management, African Journal of Ecology, Ecology and Evolution, Animal Conservation, Ecological Solutions and Evidence, Frontiers in Ecology and Evolution, Frontiers in Conservation Science, Biological Conservation
- Memberships:* IUCN Hyaena Specialist Group, Ecological Society of America, The Wildlife Society, Society for Conservation Biology

Outreach Roles

- 2021 *Panelist, **National Geographic Explorers Festival***, Global
- 2020- *Scientific Advisory Board Member, **Mountain Lion Foundation***, California
- 2020- *Recruitment Committee Member, **Shoals Marine Laboratory Alumni and Friends Association***, Isles of Shoals, New Hampshire
- 2012- *Performing Member & Instructor, **San Francisco Taiko Dojo***, San Francisco, CA
Practice and perform taiko drumming around the USA and the world, teach taiko to students of all ages and abilities, and provide logistical support.
- 2019-2020 *Scientific Consultant, **Mountain Lion Foundation***, Julian, CA
Provided guidance on developing a community participatory mapping project to understand and alleviate conflict between people and mountain lions.
- 2017 *Facilitator, **Hopland Research and Extension Center***, Hopland, CA

Helped to facilitate a community workshop on ranching with wildlife.

- 2012-2018 *Volunteer, **Steinhart Aquarium**, San Francisco, CA*
Responsible for husbandry and data collection for various exotic reptile, amphibian, mammal, and avian species.
- 2013-2015 *Volunteer, **Ornithology & Mammalogy Dept. California Academy of Sciences**, San Francisco, CA*
Responsible for conducting research, preparing specimens for exhibit, and outreach to the public.

Popular Science Communication and Community Engagement

Selected Podcast Hosting and Appearances

Title TBD. Radiolab. *Guest.* April 2023.

Nice Genes! Genome BC. *Co-host.* Fall 2022. Pizzly Bears, anyone? Protecting local wildlife icons.
<https://www.genomebc.ca/Pizzly-Bears-anyone-protecting-local-wildlife-icons>

Going Wild. PBS. *Guest Appearance.* October 4 2022. Hyena is a Swear Word... in Kenya.
<https://www.pbs.org/wnet/nature/podcast/hyena-is-a-swear-word-in-kenya/>

Get Out Alive. Muck Rack. *Guest Appearance.* July 20 2022. The truth about hyenas (feat. Christine Wilkinson). <https://muckrack.com/podcast/get-out-alive/episodes/ep-31-the-truth-about-hyenas-feat-christine-wilkin/>

Just the Zoo of Us. Maximum Fun. *Guest Appearance.* March 2 2022. Hyenas w/ Dr. Christine Wilkinson! <https://maximumfun.org/episodes/just-the-zoo-of-us/134-hyenas-w-dr-christine-wilkinson/>

Selected Visual Media (Scripted and Unscripted)

Plimsoll Productions: TBA June 2023. Scientific expert- in studio [unscripted].

Queer is Natural Series [tiktok]. 2022-present. Creator, producer, scriptwriting, acting. Example:
<https://www.tiktok.com/@thescrappynaturalist/video/7106496770196409646>

National Geographic Live Explorer Academy Adventures: Mammals Week. Featured Explorer (scriptwriting, acting). 2021.

Oral Presentations

Wilkinson, C.E. 12 January 2023. Hyenas, coyotes, and conflict, oh my! *California Academy of Sciences Nightlife.*

Wilkinson, C.E. 16 March 2022. The carnivores in your backyard and abroad. *Nerd Nite San Francisco.*

- Wilkinson, C.E.** 30 March 2021. Spotted hyenas and communities in Kenya. *Women in the Classroom*.
- Wilkinson, C.E.** 2020. Life finds a way: How can humans and wildlife coexist in an increasingly developed world? *UC Berkeley Grounds for Science*.
- Wilkinson, C.E.** 2020. Life Finds a Way: Carnivore Movement and Conflict in Kenya. *National Geographic Explorer Classroom*. (for ~1000 9-14 year olds)
- Wilkinson, C.E.** 2020. Spotted Hyenas: Fact and Fiction *National Geographic Explorer Classroom*. (for ~1000 4-8 year olds)
- Wilkinson, C.E.** et al. 2020. Trailblazing Women in Conservation. (Panelist). *College of William & Mary*, Williamsburg, VA.
- Wilkinson, C.E.** et al. 2020. Misunderstood Mammals and the Black Experience. (Panelist, Organizer). *Black Mammalogists Week*, Global.
- Wilkinson, C.E.** et al. 2020. Carnivore movement and conflict in a developed Kenyan landscape. *California Academy of Sciences "Breakfast Club"*, San Francisco, CA.

Selected Popular Articles & Blogs

- McInturff, A., **C.E. Wilkinson**, and W. Xu. Fences have big effects on land and wildlife around the world that are rarely measured. *The Conversation*, 30 November 2020. <https://theconversation.com/fences-have-big-effects-on-land-and-wildlife-around-the-world-that-are-rarely-measured-147797>
- Wilkinson, C.E.** Ecological considerations in promoting human-wildlife coexistence. *Defenders of Wildlife Blog*, 14 May 2020. <https://defenders.org/blog/2020/05/ecological-considerations-promoting-human-wildlife-coexistence>
- Wilkinson, C.E.** Life finds a way. *Blog*, 25 February 2020. <https://scrappynaturalist.com/2020/02/25/life-finds-a-way/>
- Wilkinson, C.E.** Wildlife fencing: How effective is it for conservation? *Conservation Corridor*, 8 June 2020. <https://conservationcorridor.org/2020/06/wildlife-fencing-kenya/>
- Wilkinson, C.E.** On being exotic. *Blog*, 24 October 2018. <https://scrappynaturalist.com/2018/10/24/on-being-exotic/>

Selected Press Coverage

- Looby, C. 23 December 2021. 'We scientists engage in soft diplomacy': Q&A with Christine Wilkinson. *Mongabay*. <https://news.mongabay.com/2021/12/we-scientists-engage-in-soft-diplomacy-qa-with-christine-wilkinson/>
- Kobilinsky, D. 17 July 2020. To manage carnivores and livestock, focus on ecology. *The Wildlife Society*. <https://wildlife.org/to-manage-carnivores-and-livestock-focus-on-ecology/>

Manke, K. 14 May 2020. Saving livestock by thinking like a predator. *UC Berkeley News*.
<https://news.berkeley.edu/2020/05/14/saving-livestock-by-thinking-like-a-predator/>

Smith, M. 30 August 2018. Student spotlight: CNR's female drone pilots. *Berkeley CNR*.
<https://nature.berkeley.edu/news/2018/08/student-spotlight-cnr-s-female-drone-pilots>

Social Media

Twitter: @ScrapNaturalist, 8300 followers

TikTok: @TheScrappyNaturalist, 5883 followers

Instagram: @christine_eleanor, 1597 followers

22 February 2023: Reddit Ask Me Anything [in r/AskScience; 27 million followers]

Selected Academic Presentations

Oral Presentations

Wilkinson, C.E. 21 February 2023. Social-ecological predictors of carnivore movement and human-carnivore interactions. *California State University East Bay*, Hayward, California.

Wilkinson, C.E. 14 October 2022. Life finds a way: How can humans and wildlife coexist in an increasingly developed world? *California Polytechnic State University*, San Luis Obispo, California.

Wilkinson, C.E. et al. 2022. Sociocultural and ecological drivers of human-coyote interactions in San Francisco, California. *The Wildlife Society conference*, Spokane, Washington.

Wilkinson, C.E. 2022. Participatory mapping for conservation. *UC Davis One Health Speaker Series*.

Wilkinson, C.E. 2021. Carnivore movement and conflict in developing landscapes. *University of Chester Conservation Biology Seminar*.

Wilkinson, C.E. 2021. Life finds a way: Using interdisciplinary methods to understand carnivore coexistence with people. *Midwest Ecology and Evolution Conference*.

Wilkinson, C.E. et al. 2020. Carnivore movement and conflict with communities in Kenya. *Women in Ecology Seminar*, Notre Dame, IN.

Wilkinson, C.E. et al. 2020. Carnivore movement and conflict in a densely developed Kenyan landscape. *Ecological Society of America*, Virtual Conference.

Wilkinson, C.E. et al. 2020. Life finds a way: Carnivore movement and conflict in a developed landscape. *North American Congress for Conservation Biology*, Virtual Conference.

Wilkinson, C.E. 2020. International Wildlife Management. *For undergraduate course- American Wildlife: Management and Policy in the 21st Century*, Berkeley, CA.

- Wilkinson, C.E.** 2019. Participatory methods for addressing human-carnivore conflict. *Campaign Volunteer Summit*, Berkeley, CA.
- Wilkinson, C.E.** et al. 2019. Using participatory mapping to understand human-carnivore conflict in developed landscapes. *Bay Area Conservation Biology Symposium*, Berkeley, CA.
- Wilkinson, C.E.** et al. 2019. Using multidisciplinary methods to understand human-carnivore conflict in developed landscapes. *Center for African Studies*, Berkeley, CA.
- Wilkinson, C.E.** et al. 2019. Using participatory mapping to understand human-carnivore conflict in fragmented landscapes. *The Wildlife Society Western Section Conference*, Yosemite, CA.
- Wilkinson, C.E.** 2018. Multidisciplinary mapping: Human-carnivore conflict and landscape permeability for carnivores. *Lake Nakuru National Park HQ*, Nakuru, Kenya.
- Wilkinson, C.E.** & Temu, S. 2017. Assessing the social and attitudinal impacts of the Living Walls program. *Northern Tanzania Rangelands Initiative PHE Orientation Meeting*, Arusha, Tanzania.
- Wilkinson, C.E.** et al. 2011. The influence of age on the reproductive success of the herring gull on Appledore Island, Maine. *Biology Research Fellows Symposium*, Ithaca, NY.

Poster Presentations

- Alexander, L., M. Kling, and **C.E. Wilkinson**. 2017. NATLAS: An atlas of citizen naturalist observations. *BIDS Data Science Faire*, Berkeley, CA (co-presenter).

Relevant Skills

- Languages:* Kiswahili (conversational), Spanish (intermediate)
- Software:* R, ArcGIS, ENVI, Adobe Premiere, Google suite, Microsoft suite
- Research skills:* FAA Commercial Remote Pilot Certified, qualitative and participatory methods, survey & media interview design and implementation, field ecology methods, behavioral observation, terrestrial wildlife trapping and handling, youth development principles & educational program design, recruitment, evaluation, camera trapping