

Christine E. Wilkinson

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Education

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

Publications

Peer-reviewed Publications

- Wilkinson, C.E.**, Brashares, J.S., Bett, A.C., Kelly, M. 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>
- Calhoun, K., Chapman, M., Tubbesing, C., McInturff, A., Gaynor, G., Van Scoyoc, A., **Wilkinson, C.E.**, Parker-Shames, P., Kurz, D., Brashares, J.S. *In Press*. Where the wildfires are—Biodiversity conservation requires fire management outside conifer forests. *Diversity and Distributions*.
- Wilkinson, C.E.**, McInturff, A., Kelly, N.M., & Brashares, J.S. 2021. Quantifying wildlife responses to conservation fencing in East Africa. *Biological Conservation*, 256: 109071.
<https://doi.org/10.1016/j.biocon.2021.109071>
- Kurz, D., Middleton, A., Chapman, M., Van Houtan, K., **Wilkinson, C.E.**, Withey, L., & Brashares, J. *In Review*. Building bridges in the post-Trump era: Can conservation scientists help recover bipartisan support for U.S. environmental protection? *Preprint*: <https://ecoevorxiv.org/entgj/>
- McInturff, A., Xu, W., **Wilkinson, C.E.**, Dejid, N., & Brashares, J.S. 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.**, McInturff, A., Miller, J.R.B., Yovovich, V., Gaynor, K.M., Calhoun, K., Karandikar, H., Martin, J.V., Parker-Shames, P., Shawler, A., Van Scoyoc, A., & Brashares, J.S. 2020. An ecological framework for contextualizing carnivore-livestock conflict. *Conservation Biology*, 34(4): 854-867. <https://doi.org/10.1111/cobi.13469>

Other Publications

- 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*.

Research Experience

- 2021- *Postdoctoral Scholar, **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.
- 2015- *PhD research, **Lake Nakuru National Park & Soysambu Conservancy***, Nakuru County, Kenya
Using multidisciplinary and participatory methods to understand carnivore movement and human-carnivore conflict in a densely developed landscape.
- 2017-2018 *PhD research, **Brashares Lab***, University of California- Berkeley
Led an interdisciplinary group of researchers in synthesizing ecological theory underlying carnivore-livestock conflict, leading to a publication on the same.
- 2017 *Research collaboration, **African People & Wildlife***, Nolooho Environmental Center, Tanzania
Developed and implemented a study analyzing the social and health impacts of the Living Walls human-carnivore conflict intervention program.
- 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.
- 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 *Student, **Cornell University***, Ithaca, New York
Conducted independent research on eastern grey squirrel foraging behavior.
- 2007-2009 *Student, **Shoals Marine Laboratory***, Maine
Each summer, 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. Coordinated with researchers, biologists, exhibit personnel, and other professionals to stay abreast of current science research, animal husbandry practices, and Academy initiatives, and incorporated new concepts and collaborations into program design.
- 2013-2015 *Regional Representative, 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.

Funding and Awards

Research Funding

- 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

Fellowships & Scholarships

- 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

Other Awards

- 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

Presentations

Oral Presentations

- 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.
- Kurz, D., Brashares, J., Chapman, M., Van Houtan, K., **Wilkinson, C.**, Withey, L., & Middleton, A. In preparation. Building bridges in the era of Trump: How can conservationists help recover bipartisan US conservation policy support?
- 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., Kling, M. & **Wilkinson, C.E.** 2017. NATLAS: An atlas of citizen naturalist observations. *BIDS Data Science Faire*, Berkeley, CA (co-presenter).

Leadership

- 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- *Co-lead, **Coexistence Evaluation Working Group***, based in USA
Works with agencies, organizations, and researchers to ideate and develop a dynamic tool for evaluating the effectiveness of human-wildlife conflict interventions.
- 2020- *Lead, **Conflict Reduction Communication Working Group***, Global
Works across contexts and organizations to develop a communication platform for managers and practitioners working to address human-wildlife conflict.
- 2020- *Development Committee Liaison, **ESPM Graduate Student Association***, Berkeley, CA
- 2019-2020 *Co-President, **ESPM Graduate Student Association***, Berkeley, CA
- 2019 *Co-Organizer, **Bay Area Conservation Biology Symposium***, Berkeley, CA
- 2018 *Treasurer, **Society for Conservation Biology- Berkeley Chapter***, Berkeley, CA
- 2017-2019 *Liaison to the Graduate Programs Committee (Ecosystem Sciences Division)*
Worked with a committee of faculty and students on department-wide issues, and served on the department's graduate admissions committee.

Additional Scientific Mentoring & Teaching

- 2020 *Explorer Instructor, **National Geographic Explorer Classroom***, Global.
Lesson 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)
Designing and teaching discussion sections and several lectures.
- 2019- *Mentor, **Undergraduate Research Apprenticeship Program***, UC Berkeley

Supervise, teach, and mentor undergraduate research apprentices (7) in research methods, data organization and analysis, literature review, and ethics.

2018-

Mentor, Egerton University, Nakuru, Kenya

Mentor two Kenyan master's student on their thesis, including providing logistical support and training on ecology, wildlife behavior, survey and participatory field research techniques, and data management.

Science Communication

Oral Presentations

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

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

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>

Outreach

- 2021 *Panelist, National Geographic Explorers Festival*, Global
- 2020- *Co-founder and Facilitator, Black Mammalogists Week*, Global
<https://blackmammalogists.com>
- 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.

Other Skills & Experience

- Reviewer:* Conservation Science and Practice, Conservation Biology, PLOS ONE, Journal of Zoology, PeerJ, Environmental Management, African Journal of Ecology
- Memberships:* Ecological Society of America, The Wildlife Society, Society for Conservation Biology, American Association for the Advancement of Science
- Language:* Kiswahili (conversational), Spanish (intermediate)

Software: R, ArcGIS, ENVI, Nova modeler

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