

COURTNEY REED, PH.D.

Postdoctoral Researcher
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PROFESSIONAL APPOINTMENTS

Postdoctoral Researcher 2023 – Pres.
University of California Santa Barbara
PI: Dr. Deron Burkepile

EDUCATION

Ph.D. in Ecology, Evolutionary, and Organismal Biology 2023
Brown University, Providence, RI
Dissertation: Food, fear, and femurs: resource use and functional diversity in mammals
Advisor: Dr. Tyler Kartzinel
Committee: Drs. Jim Kellner, Thomas Roberts, Dov Sax, Sharon Swartz

M.L.A. in Biology 2018
Harvard University Extension School, Cambridge, MA
Thesis: Reproductive physiology as a foundation for developing transgenic *Peromyscus*
Advisor: Dr. Hopi Hoekstra

B.A. in Economics; second major African Studies 2014
University of North Carolina, Chapel Hill, NC

PEER-REVIEWED PUBLICATIONS

† Indicates students mentored; * Indicates equal contribution

Bianca R. P. Brown, Leo M. Khasoha, Peter Lokeny, Rhiannon P. Jakopak, **Courtney G. Reed**, Marissa A. Dyck, Alois Wambua, Seth D. Newsome, Todd M. Palmer, Robert M. Pringle, Jacob R. Goheen, & Tyler R. Kartzinel. 2024. Spatiotemporal variation in the gut microbiomes of co-occurring wild rodent species. *Ecosphere*, 15(5): e4854. <https://doi.org/10.1002/ecs2.4854>

Harry B. M. Wells, Ramiro D. Crego, Jesse M. Alston, S. Kimani Ndung'u, Leo M. Khasoha, **Courtney G. Reed**, Abdikadir A. Hassan, Samson Kurukura, Jackson Ekadeli, Mathew Namoni, Peter S. Stewart, Duncan M. Kimuyu, Amelia A. Wolf, Truman P. Young, Tyler R. Kartzinel, Todd M. Palmer, Jacob R. Goheen, & Robert M. Pringle. 2023. Wild herbivores enhance resistance to invasion by exotic cacti in an African savanna. *Journal of Ecology*, 111(1): 33-44. <https://doi.org/10.1111/1365-2745.14010>

- Cover article

Jesse M. Alston*, **Courtney G. Reed***, Leo M. Khasoha, Bianca R. P. Brown, Gilbert Busienei, Nathaniel Carlson, Tyler C. Coverdale, Megan Dudenhoefter, Marissa A. Dyck, John Ekeno, Abdikadir A. Hassan, Rhianna Hohbein, Rhiannon P. Jakopak, Buas Kimiti, Samson Kurukura, Peter Lokeny, Allison M. Louthan, Simon Musila, Paul M. Musili, Tosca Tindall, Sarah Weiner, Tyler R. Kartzinel, Todd M. Palmer, Robert M. Pringle, & Jacob R. Goheen. 2022. Ecological consequences of large herbivore exclusion in an African savanna: 12 years of data from the UHURU experiment. *Ecology*, 103(4): e3649. <https://doi.org/10.1002/ecy.3649>

- Cover article; Cover photo contributed by Courtney G. Reed
- Photo Gallery feature – Courtney Reed, Jesse Alston, Tyler Kartzinel, Robert Pringle, and Jacob Goheen. 2022. Large herbivore loss in a Kenyan savanna: data from the UHURU experiment. *The Bulletin of the Ecological Society of America*, 103(2): e01980. <https://doi.org/10.1002/bes2.1980>

Harry B. M. Wells, Ramiro D. Crego, Øystein H. Opedal, Leo M. Khasoha, Jesse M. Alston, **Courtney G. Reed**, Sarah Weiner, Samson Kurukura, Abdikadir A. Hassan, Mathew Namoni, Jackson Ekadeli, Duncan M. Kimuyu, Turman P. Young, Tyler R. Kartzinel, Todd M. Palmer, Robert M. Pringle, & Jacob R. Goheen. 2021. Experimental evidence that effects of megaherbivores on mesoherbivore space use are influenced by species' traits. *Journal of Animal Ecology*, 90(11): 2510-2522. <https://doi.org/10.1111/1365-2656.13565>

- Cover article

SUBMITTED MANUSCRIPTS

† Indicates students mentored; First-author manuscripts only; PDFs available on request

Courtney G. Reed, Michelle L. Budny, Johan T. du Toit, Ryan Helcoski, Joshua P. Schimel, Izak P. J. Smit, Tercia Strydom, Aimee Tallian, Dave I. Thompson, Helga van Coller, Nathan P. Lemoine, Deron E. Burkepile. Elephant megacarcasses increase local nutrient pools in African savanna soils and plants. In revision at *Biogeosciences*.

Courtney G. Reed, Sharon M. Swartz, Bethan Littleford-Colquhoun, Madeleine Florida†, Logan Torres†, Thomas J. Roberts, Tyler R. Kartzinel. Distinct morphological drivers of jumping and maneuvering performance in gerbils. In revision at *Journal of Experimental Biology*.

Courtney G. Reed, Loren P. Albert, Chrishen Gomez†, Ali Hassan, Sam Kurukura, Paul M. Musili, Maria Stahl, David Ward, Todd M. Palmer, Jacob R. Goheen, Robert M. Pringle, Tyler R. Kartzinel. Experimental defaunation alters foraging behavior of a small antelope in Kenya. In review at *Journal of Mammalogy*.

MANUSCRIPTS IN PREP

† Indicates students mentored; First-author manuscripts only; PDFs available on request

Courtney G. Reed, Leo M. Khasoha, Bianca R. Palmer-Brown, Robert O. Ang'ila†, Peter Lokeny, Gilbert Busienei, Ali Hassan, Sam Kurukura, Ian J. Maywar, Charles Miano, Natalie Nantais, Todd M. Palmer, Robert M. Pringle, Jacob R. Goheen, Tyler R. Kartzinel. Large herbivore extirpation alters small mammal trophic network structure in a Kenyan savanna. In prep for submission to *Ecology* in January 2025.

AWARDS

Comparative Nutrition Society Malcolm Ramsey Memorial Scholarship	2020
1 st Place – IBES Earth Itself Flash Talk Competition	2019
Harvard ALM Dean’s Prize for Outstanding Thesis in Biology	2018

GRANTS & FELLOWSHIPS

NSF Postdoctoral Research Fellowship in Biology (\$207,000 – declined)	2023
American Society of Naturalists Student Research Award (\$2,000)	2022
Society for Integrative and Comparative Biology Grad Student Travel Award (\$2,000)	2022
IBES Graduate Research, Training, and Travel Award (\$4,000)	2021
American Society of Mammalogists James L. Patton Award (\$5,000)	2021
Brown EEB Departmental Dissertation Enhancement Grant (\$10,000)	2020
American Philosophical Society Lewis and Clark Award (\$4,000)	2020
Animal Behavior Society Student Research Grant (\$1,000)	2020
IBES Graduate Research, Training, and Travel Award (\$4,900)	2019

INVITED TALKS

University of North Dakota Department of Biology (Grand Forks, ND)	2024
University of California Santa Barbara EEMB (Santa Barbara, CA)	2023
Brown Center for Animal Resources and Education (Providence, RI)	2022

CONTRIBUTED TALKS

Ecological Society of America Annual Meeting (Long Beach, CA)	2024
Kruger National Park Networking Meeting (Skukuza, South Africa)	2024
Animal Behavior Society Annual Meeting (Virtual)	2020
American Society of Mammalogists Annual Meeting (Washington, D.C.)	2019
Institute at Brown for Environment and Society Earth Itself Conference (Providence, RI)	2019
Harvard Extension School ALM Thesis Symposium (Cambridge, MA)	2018

CONTRIBUTED POSTERS

Comparative Nutrition Society Symposium (Virtual)	2020
13 th Annual Broad Institute Scientific Retreat (Cambridge, MA)	2017
Conservation of Adaptive Potential and Functional Biodiversity Meeting (Durham, UK)	2017

TEACHING

Teaching Courses and Certifications

UCSB Certificate in Inclusive Teaching	Spring 2024
Brown Sheridan Center Syllabus Design Course	Spring 2022
Brown Sheridan Center Certificate 1: Reflective Teaching	Fall 2019

Teaching Assistant

Brown University, ENVS 0490, Environmental Science in a Changing World	Spring 2022
Brown University, Biology 1450, Community Ecology	Spring 2020
Brown University, Biology 043, Evolution of Plant Diversity	Spring 2019

Guest Lectures

UCSB, EEMB 120, Introduction to Ecology	Spring 2024
Brown University, ENVS 0490, Environmental Science in a Changing World	Spring 2022
Wheaton College, Biology 398, Plant Mutualisms	Spring 2021
Brown University, Biology 043, Evolution of Plant Diversity	Spring 2019

MENTORSHIP

Undergraduate Students

UCSB: Talia Ash, Amelia Fuentes, Amit Goldberg, Miffy Huang, Natalie Moon, Liah Nudell, Alejandro Hernandez Rios, Colin Shew, Keeana Thomas, Kalin Zobel

Brown University: Madeline Florida, Chrishen Gomez, Molly Magid, Logan Torres

Masters Students

Mpala Research Centre: Robert Ang'ila

Leadership Alliance Group Mentor

Mentored group of 12 undergraduate students

Taught twice-weekly classes on ecological research skills

Summer 2021

Harvard College Undergraduate Research Association

Group mentor for undergraduate student researchers

2017 – 2018

DEI TRAINING & EXPERIENCE

UCSB DEI Book Club

2023 – 2024

Brown EEOB Diversity and Inclusion Action Plan Committee

Grad Student Representative

2021 – 2022

Animal Behavior Society Grant Language Editing Program

Consultant on English grammar/syntax for ESL students submitting research grants

2021

Brown EEMB Preview Day

Intro to EEMB for prospective grad students from historically excluded groups

2021

IBES Diversity and Inclusion Action Plan Committee

Grad Student Representative

2019 – 2020

Workshops/Trainings Attended

UCSB LGBTQIA+ Center: Queer Trans Identity and Experience 101 2024

UCSB Office of Teaching/Learning: Advocacy and Agency in Equity Conversations 2024

UCSB Office of Teaching/Learning: Flexibility and Structure for Equitable Teaching 2024

Brown EEOB: Anti-Racist Pedagogy in STEM 2022

Brown EEOB: DEI in Ecology and Evolutionary Biology 2022

Brown Office of Institutional Equity and Diversity: Microaggressions 2019

Brown Sheridan Center: Transparent Frameworks for Teaching and Mentoring 2019

PROFESSIONAL SERVICE

Journal Reviews: *Journal of Heredity*, *Journal of Mammalogy*, *Rangeland Ecology and Management*, *Scientific Reports*

President – EEOB Grad Student Association 2020 – 2021

Coordinator for Brown EEOB Internal Seminar Series 2019 – 2020

Brown EEOB Undergraduate Career Panel 2019
Grad Student Representative

National Collegiate Research Conference (Cambridge, MA) 2017; 2018
Poster Judge: Organismic/Evolutionary Biology and Environmental Sciences

ADDITIONAL WORKSHOPS & TRAINING

SlicerMorph 3D Digital Morphology and Morphometrics Workshop 2022

Bruker SKYSCAN MicroCT/X-Ray Live Animal Imaging Training 2022

Guarda Evolutionary Biology Grant-Writing Workshop, Guarda, Switzerland 2018

Genome Engineering 5.0 Workshop, Broad Institute, Cambridge, MA 2017