MOLLY HARDESTY-MOORE

Ph.D. Candidate
Ecology, Evolution, and Marine Biology
University of California, Santa Barbara
Santa Barbara, CA

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EDUCATION

2015 - present	Ph.D. Candidate Ecology, Evolution, and Marine Biology University of California, Santa Barbara	Santa Barbara, CA
2015 - 2018	M.A. Ecology, Evolution, and Marine Biology University of California, Santa Barbara	
2011 - 2015	B.A. Integrative Biology University of California, Berkeley	Berkeley, CA

AWARDS AND HONORS

2020	UC Santa Barbara GSA Excellence in Teaching Award
2019	Schmidt Mentorship Award
2018	Researcher Accelerator Award
2017	Hansma Summer Fellowship Award
2017	UC Santa Barbara Crossroads Fellowship
2015 - 2016	UC Santa Barbara Regent's New Student Fellowship
2015	UC Berkeley Integrative Biology: Joseph LeConte Award

TEACHING EXPERIENCE

Appointments

2021 - present	Environmental Science Department Moorpark College, Ventura Community College District	Part-time adjunct faculty: Intro to Environmental Science (with lab) Environment and Human Interactions (with lab) Energy Resources and Conservation
2019 - 2022	Ecology, Evolution, and Marine Biology Environmental Studies Departments University of California, Santa Barbara	Instructor of record: Biodiversity and Conservation Biology
2020 - 2021	Interdisciplinary Studies University of California, Santa Barbara	Teaching Assistant: History of Disease
2020	Ecology, Evolution, and Marine Biology University of California, Santa Barbara	Teaching Assistant: Non-infectious Disease

2018 - 2020	Ecology, Evolution, and Marine Biology University of California, Santa Barbara	Teaching Assistant: EEMB Colloquium (departmental seminar)
2018	Ecology, Evolution, and Marine Biology University of California, Santa Barbara	Teaching Assistant: Biodiversity and Conservation Biology
2017	Environmental Studies University of California, Santa Barbara	Teaching Assistant: Introduction to Environmental Studies
2016 - 2018	Ecology, Evolution, and Marine Biology University of California, Santa Barbara	Teaching Assistant: Ecology and Evolution of Terrestrial Vertebrates lab and lecture

Scholarships/Teaching Programs

2016 - present	Certificate in College and University Teaching University of California, Santa Barbara	Added to Ph.D.; guided, multi-step process includes creating teaching portfolio, teaching with a mentor, digital teaching technologies instruction
2017	Crossroads Fellowship University of California, Santa Barbara	Year-long fellowship in interdisciplinary research and teaching

MENTORSHIP

2020 - 2021	Ecology, Evolution, Marine Biology Graduate Program University of California, Santa Barbara	Mentor to first year EEMB graduate student
2016 - 2020	Ecology, Evolution, Marine Biology University of California, Santa Barbara	Undergraduate research mentor; mentored over 20 passionate undergrads in field research skills, lab skills, data management, scientific writing and analysis
2017 - 2018	Women in STEM (WiSE) University of California, Santa Barbara	Mentor to undergraduate identifying as a woman interested in pursuing career in STEM

OUTREACH AND SERVICE

2020 - present	Ecology, Evolution, and Marine Biology Diversity, Equity, Inclusion, and Wellness Committee University of California, Santa Barbara	Member, committee created by graduate students to address the needs/concerns of those in the department related to issues of equity and inclusion
2018	Benioff Ocean Initiative Global Climate Action Summit California Academy of Sciences, San Francisco	Two-day science outreach event with ~900 middle school students, promoting education on and active engagement in climate solutions
2018	World Ocean's Day University of California, Santa Barbara Santa Barbara Museum of Natural History Sea Center	Volunteer outreach event to Santa Barbara public, worked virtual reality whale dive
2016 - 2018	Science as a Career Outreach Project Experiment (SCOPE)	Present to Ventura County high school science classes on scientific research, college, graduate school, and possibility of a career
2015 - 2017	Graduate Student Association University of California, Santa Barbara	Departmental representative in university-wide graduate student association

RESEARCH GRANTS

2018 - 2019	Mildred E. Mathias Graduate Student Research Grant	"Temporal, spatial, and dietary niche partitioning of three synanthropic mesopredators (raccoon, striped skunk, and Virginia opossum) along a gradient of human use," $3,000
2017 - 2019	National Geographic Young Explorer Grant	"Denizens of the night: raccoon spatial ecology and potential for disease transmission in a human-dominated landscape," $5,000
2016 - 2017	Hellman Family Faculty Fellowship (to D. McCauley)	"Raccoon (*Procyon lotor*) spatial ecology and the potential

for reducing human disease risk," $40,000

SCIENTIFIC PUBLICATIONS

2022 **Hardesty-Moore, M**, Christopher, ML, and DJ McCauley
Trophic niche partitioning and use of anthropogenic foods by three generalist mesopredators in an urbanizing landscape
In review, Mammalian Biology.

2022 Mychajliw, AM, Adams, AJ, Brown, KC, Campbell, BT, **Hardesty-Moore, M,** Welch, ZS, Page, HM, Southon, J, Cooper, SD, and PS Alagona.
A human-mediated dietary shift toward carnivory intensified persecution of the last California grizzly bears
In review, PNAS.

2020 Forbes, ES, Adams, AJ, Anderson, SE, Brown, KC, Colby, J, Cooper, SD, Denny, SM, Hiroyasu, EHT, Heilmayr, R, Kendall, BE, Martin, JA, **Hardesty-Moore, M**, Mychajliw, AM, Tyrrell, BP, Welch, ZE, and PS Alagona
Analogies for a No-Analogue World: Tackling Uncertainties in Reintroduction Planning
Trends in Ecology and Evolution 35(7), 551-554

2020 **Hardesty-Moore, M,** Orr, D, and DJ McCauley
Invasive plant Arundo donax *alters habitat use by carnivores*
Biological Invasions 22, 1983–1995

2018 **Hardesty-Moore, M**, Deinet, S, Freeman, R, Titcomb, GC, Dillon, EM, Stears, K, Klope, M, Bui, A, Orr, D, Young, HS, Miller-ter Kuile, A, Hughey, LF, and DJ McCauley
Migration in the Anthropocene: how collective navigation, environmental system, and taxonomy shape the vulnerability of migratory species
Philosophical Transactions of the Royal Society B 373(1746), 20170017

2017 McCauley, DJ, **Hardesty-Moore, M**, Halpern, BS, and HS Young
A mammoth undertaking: harnessing insight from functional ecology to shape de-extinction priority setting
Functional Ecology, 31(5), 1003-1011

PRESENTATIONS AND POSTERS

2021 **Hardesty-Moore, M**, Christopher, ML, and DJ McCauley.
"Trophic niche partitioning and consumption of anthropogenic foods by generalist mesopredators in an urbanizing landscape." Contributed talk, Ecological Society of America Annual Meeting.

2019	**Hardesty-Moore, M**, Orr, D, and DJ McCauley. "Invasive plant *Arundo donax* reduces mammalian predator use of habitat in a southern California riparian system." Contributed talk, The Wildlife Society Western Section Annual Meeting.
2019	**Hardesty-Moore, M**, Orr, D, and DJ McCauley. "Invasive plant shapes how mammalian predators use southern California riparian habitat." Contributed talk, Ecology, Evolution, and Marine Biology Graduate Student Symposium.
2017	**Hardesty-Moore, M**, Orr, D, and DJ McCauley. "Influence of an invasive plant on carnivore habitat use." Contributed talk, Ecological Society of America Annual Meeting.
2017	**Hardesty-Moore, M**, Orr, D, and DJ McCauley. "Influence of an invasive plant on carnivore habitat use." Poster, The Wildlife Society Western Section Annual Meeting.

RESEARCH EXPERIENCE

2015 - present	Ecology, Evolution, and Marine Biology Department dissertation research Santa Barbara and Ventura counties University of California, Santa Barbara	Invasive plant *Arundo donax* alters habitat use by carnivores (published) Trophic niche partitioning and incorporation of anthropogenic food by generalist mesopredators in an urbanizing landscape (in prep) Raccoon spatial ecology and potential for disease transmission in a heavily human-dominated landscape (in prep)
2022	California Grizzly Research Network University of California, Santa Barbara	Graduate Student Research position: California Grizzly Roadmap project
2016 - present	California Grizzly Research Network University of California, Santa Barbara	Historic nutrition sources of grizzlies in California using stable isotope analysis; Comparative mapping project; Human influence on brown bear ecological impacts
2015	Smithsonian Institute Roosevelt Resurvey	Mammalogist: small mammal trapping

	Mt. Kenya, Kenya	
2014	Biology and Geomorphology of Tropical Islands Moorea, French Polynesia University of California, Berkeley	Field research project, "On the Edge of Extinction: Distribution and Behavior of the Endangered Partulid Snails of Moorea, French Polynesia"
2013 - 2015	Barnosky Lab University of California, Berkeley	Undergraduate research assistant: database creation, sorted wood rat midden matrices, small mammal trapping, midden excavation

PROFESSIONAL SERVICE

2022	Peer reviewer: Mammalian Biology
2021	Peer reviewer: Conservation Letters
2017	Peer reviewer (under D. McCauley): Biological Conservation

PROFESSIONAL AFFILIATIONS

The Wildlife Society
Ecological Society of America

REFERENCES

Dr. Douglas McCauley, EEMB, UC Santa Barbara
Dr. Peter Alagona, Bren School, UC Santa Barbara
Dr. Roger Putnam, Moorpark College (now Truckee Meadows Community College)

SKILLS

Computer: R, Excel, ArcGIS, QGIS, basic Matlab, JMP, PowerPoint, Adobe Photoshop
Laboratory: Dissection (small mammals and invertebrates), blood sampling from small mammals, stable isotope analysis (prep hair and plant material), microscopy
Field: Small mammal trapping (Tomahawk and Sherman traps), small mammal identification, mesocarnivore live trapping, raccoon anesthesia, raccoon GPS collaring, VHF telemetry, camera traps, bird identification/spot counts, vegetation transects, experimental design