

# Frankie Gerraty

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## EDUCATION

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### University of California, Santa Cruz

*Ph.D. Student, Ecology and Evolutionary Biology*

**Santa Cruz, California**

*September 2021-Present*

**Dissertation:** Social-Ecological Linkages Between Land and Sea

Advisor: Dr. Peter Raimondi

### Whitman College

*B.A. in Biology — Environmental Studies*

**Walla Walla, Washington**

*August 2015-May 2019*

**Thesis:** Anthropogenic Impacts on Mangrove Crab Abundance, Zonation, and Diversity in Bocas del Toro, Panamá

GPA: 3.901/4.00 - *summa cum laude*

### School for Field Studies

*Marine Resource Studies / Tropical Island Biodiversity Studies*

**Turks and Caicos / Panamá**

*August-December 2017*

GPA: 3.920/4.00

## GRANTS, AWARDS AND HONORS *total: \$264,144*

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### Research Grants

- Rebecca and Steve Sooy Graduate Fellowship, 2023 (\$5,749)
- Point Reyes National Seashore Neubacher Fund, 2023 (\$5,000)
- The Explorers Club Exploration Fund, 2023 (\$3,800)
- Tomales Bay Foundation, 2023 (\$3,000)
- Myers Oceanographic and Marine Biology Trust, 2023 (\$2,745)
- PADI Foundation, 2023 (\$2,485)
- Western Society of Naturalists Rafe Sagarin Fund for Innovative Ecology, 2023 (\$2,000)
- International Women's Fishing Association Scholarship, 2023 (\$1,000)
- UCSC Institute for Marine Sciences Student Research and Education Award, 2023 (\$650)
- American Philosophical Society Lewis and Clark Fund, 2022 (\$4,800)
- American Museum of Natural History Lerner-Gray Marine Research Grant, 2022 (\$3,265)
- Rebecca and Steve Sooy Graduate Fellowship, 2022 (\$2,500)
- Phycological Society of America Grant in Aid of Research, 2022 (\$1,970)
- Otter Bay Wetsuit Award, 2022 (*In Kind: \$700*)
- UCSC Graduate Division Travel Grant, 2022 (\$500)
- DroneCamp Scholarship, 2021 (*In Kind: \$50*)
- Whitman Internship Grant, 2018-2019 (\$1,680)

### Fellowships

- National Science Foundation Graduate Research Fellowship, 2021-2026 (\$138,000)
- UCSC Regents Fellowship, 2021 (\$2500)
- Paul Garrett Leadership Scholarship, awarded to 1% of applicants, 2015-2019 (\$30,950)
- Alexander J Anderson Scholarship, 2015-2019 (\$42,000)

### Honors and Awards

- Jan Mejer Award for Best Essay in Environmental Studies, 2019 (\$500)

- Cynthia Ann Lechner Prize, for "outstanding potential in biology," 2019 (\$350)
- Academic Distinction (Every Semester), 2015-2019
- Dipsea Footrace Scholarship, 2015 (\$5,000)
- Marin Garden Club Scholarship, 2015 (\$1,500)
- ELKS Club Scholarship, 2015 (\$800)
- Redwoods Scholarship, 2015 (\$750)

## PROFESSIONAL APPOINTMENTS

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### Graduate Researcher

May - July 2022, 2023

*Gulf Watch Alaska*

*Katmai NP, Kenai Fjords NP, Kachemak Bay, and Prince William Sound, Alaska*

- Project: Long-term nearshore ecosystem monitoring.
- Responsibilities: Survey rocky intertidal, mussel bed, and soft sediment infaunal communities; conduct sea otter foraging observations; band and survey black oystercatchers; collect carnivore scat and fish samples.

### Data Specialist

February 2020 - Present

*U.S. Geological Survey | Supervisor: Dr. Erik Beever*

*Bozeman, Montana*

- Project: American pika (*Ochotona princeps*) and porcupine (*Erethizon dorsatum*) responses to global environmental change.
- Responsibilities: Data collection, dataset management and analysis, manuscript preparation.

### Scientific Diver

May - August 2021

*PISCO | Supervisor: Dr. Mark Carr*

*Santa Cruz, California*

- Project: Long-term monitoring of California's kelp forest ecosystems.
- Responsibilities: Conduct SCUBA surveys of kelp forest fishes, invertebrates, and algae.

### Research Technician

September - December 2019

*The Guppy Project | Supervisor: Dr. David Reznick*

*Trinidad, West Indies*

- Project: Eco-evolutionary dynamics in Trinidadian montane stream communities.
- Responsibilities: Execute guppy mark-recapture experiment in remote tropical rainforest streams.

### Field Technician

May - September 2019

*U.S. Geological Survey | Supervisor: Dr. Erik Beever*

*Bozeman, Montana*

- Project: Climate-driven changes to American pika (*Ochotona princeps*) population density and habitat occupancy across the American West.
- Responsibilities: Survey mammalian communities at >500 montane talus patches. Data entry, QA/QC, and analysis. Perform literature review on climate change effects on Great Basin pikas.

### Aquatic Propagation Lab Technician

August 2018 - May 2019

*Confederated Tribes of Umatilla Indian Reservation | Supervisor: A Maine*

*Walla Walla, Washington*

- Project: Holistic approaches to watershed restoration using artificial propagation of Pacific lamprey and freshwater mussels.
- Responsibilities: Animal husbandry, aquaculture system design/construction, assist experiments.

### Undergraduate Researcher

August - December 2017

*School for Field Studies | Supervisor: Dr. Cinda Scott*

*Bocas del Toro, Panamá*

- Project: Anthropogenic impacts on mangrove crab abundance, diversity, and distribution in Bocas del Toro, Panamá.
- Responsibilities: Design and conduct mangrove crab trapping experiment, build study equipment, lead 6-person expedition team, collect and analyze data. Prepare and present posters (2), presentations (2), and undergraduate thesis (Jan Mejer Award).

### Citizen Science Program Leader

August 2014 - May 2015

*NOAA LiMPETS | Supervisor: Kathy Soave*

*Bolinas, California*

- Sea level rise induced zonation shifts in rocky intertidal invertebrates.
- Organize and lead 20+ person citizen science expeditions, teach rocky intertidal species ID.

## PUBLICATIONS

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### Peer-Reviewed Publications

2. EA Beever *et al.* [including **FD Gerraty**]. 2023. Geographic and taxonomic variation in adaptive capacity among montane small mammals: implications for conservation status and actions. **Biological Conservation**. 282, 109942.
1. **FD Gerraty**. 2023. The carrion connection: Marine mammal carcasses provide an indirect subsidy to insectivorous birds. **Food Webs**. 35,e00278.

### Non-Refereed Publications

2. **FD Gerraty**. "*Range Edges of Northeast Pacific Marine Life*," ArcGIS Storymap (2021-present; updated monthly)
1. **FD Gerraty**. "*Anthropogenic Impacts on Mangrove Crab Abundance, Zonation, and Diversity in Bocas del Toro, Panamá*," Whitman College Thesis Repository (2019)
  - o Jan Mejer Award for Best Essay in Environmental Studies at Whitman College

### Creative Nonfiction

6. **FD Gerraty** (2021). "*Ochre Sea Star*," *Objeta: becoming-feral*.
5. **FD Gerraty** (2021). "*Tube Feet on Skin*," *Loam: Living Through Liminality*.
4. **FD Gerraty** (2021). "*Frogs and Fungi: Caring for Microbial Worlds*," *New Farmers Almanac* Vol. V.
3. **FD Gerraty** (2020). "*Intertidal Entanglements*," *Center for Humans and Nature*.
2. **FD Gerraty** (2020). "*An Owl Limpet's Garden*," *The Urban Field Naturalist Project*.
1. **FD Gerraty** (2020). "*Pandemic Planet*," *Mangoprism*.

## PRESENTATIONS

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### Talks

**FD Gerraty**. "*Urbanization Effects on Shoreline Scavenging Assemblages*," Monterey Area Research Institutions' Network for Education Spring Colloquium. (2023)

**FD Gerraty**. "*Pacific Lamprey: A Case Study of Collaboration, Extinction, and Life in the Anthropocene*," Whitman Undergraduate Conference. (2019)

**FD Gerraty**. "*Anthropogenic Impacts on Mangrove Crab Diversity, Relative Abundance, and Zonation*," Whitman Undergraduate Senior Seminar. (2019)

**FD Gerraty**. "*MPA Efficacy and Anthropogenic Impacts on Mangrove Ecosystems in Bocas del Toro*," School for Field Studies Symposium. (2017)

### Posters

**FD Gerraty**. "*Anthropogenic Impacts on Mangrove Crab Diversity, Relative Abundance, and Zonation*," Whitman Undergraduate Conference. (2019)

**FD Gerraty**. "*MPA Efficacy and Anthropogenic Impacts on Mangrove Ecosystems in Bocas del Toro*," School for Field Studies Symposium. (2017)

**FD Gerraty**. "*Sea Level Rise Driven Zonation Shifts in Rocky Intertidal Invertebrates*," American Geophysical Union Fall Meeting. (2014)

### Co-authored Presentations

A Gobei-Bacaylan, **FD Gerraty**. "*Coastal Connections: Assessing Vertebrate Scavenger Assemblages Across an Urbanization Gradient*," UCSC Koret Research Slam. (2023)

D Wright, EA Beever, J Stewart, **FD Gerraty**, T Rickman, and AB Smith. "*An Impassable Gap Dividing Pika Distribution in Northern California*," North American Pika Consortium. (2023)

EA Beever, ML Westover, **FD Gerraty**, P Billman, F Smith, AB Smith. "*Drought and Climate Impact on American Pika in New Mexico*," Pajarito Environmental Education Center. (2022)

D Wright, EA Beever, J Stewart, A Gill, **FD Gerraty**, M Robinson, J Fitzgerald, T Rickman, K Klingler, and AB Smith. "An Impassable Gap Dividing Pika Distribution in Northern California," California Department of Fish and Wildlife Science Symposium. (2022)

## Panels

**FD Gerraty**. "The Role of Citizen Science in Intertidal Ecological Research," Citizen Science Conference. (2015)

## GUEST LECTURES

Branson High School Marine Ecology (x2)	2023
UC Santa Cruz Marine Ecology Field Quarter	2023
Scotts Valley High School Marine Biology (x2)	2022

## NON-ACADEMIC EMPLOYMENT

<b>Podcast Host</b> <i>Santa Cruz Naturalist</i>	2022-Present
<b>Freelance Writer</b> <i>Written work appeared in Loam: Living through Liminality, The New Farmers Almanac, The Center for Humans and Nature, The Urban Field Naturalist Project, Mangoprism, others.</i>	2020-Present
<b>Blog Manager</b> <i>Free Radicals (Science and Justice Activist Collective)</i>	2020-Present
<b>Grant Writer and Executive Assistant</b> <i>National Marine Sanctuary Foundation</i>	2020-2021

## MENTORSHIP + Koret Scholarship

Ann Gobei-Bacaylan †, Kaia Diel, Skyler Williams	2022-Present
Grace Suh, Zoe Reiss	2022-2023
Mia Laskan	2023-Present

## SERVICE

Grant Reviewer: UCSC Koret Scholarship	2022
Science Fair Judge: Westlake Elementary School	2021
UCSC EEB Peer-to-Peer Mentor	2022-Present

## SKILLS AND CERTIFICATIONS

- AAUS Scientific Diver (Moss Landing Marine Labs); NAUI Master, Rescue, Nitrox, Advanced Open Water; PADI Open Water Diver [50+ SCUBA dives, subtidal research and surveying (kelp forest, coral reef, seagrass bed, mangrove forest)]
- sUAS Drone Pilot (Part 107 license); DroneCamp Attendee (40 hour drone training course)
- NOLS Wilderness First Responder, Red Cross Lifeguard, DAN FAPro
- Statistics: R, SPSS, JMP
- Mapping: R, ArcGIS, Google Earth Pro, CalTopo
- Remote Sensing: Onset HOBO and HOBOWare, Maxim iButton sensors
- English (fluent), Spanish (intermediate), Bahasa Indonesia (beginner)

## PROFESSIONAL AFFILIATIONS

Sigma Xi	2022-Present
Phycological Society of America	2021-Present

American Fisheries Society  
Western Society of Naturalists  
Ecological Society of America  
American Society of Mammologists

*2021-Present*  
*2022-Present*  
*2022-Present*  
*2023-Present*