

RONNIE BAILEY-STEINITZ

WILDLIFE BIOLOGIST AND DATA SCIENTIST

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EDUCATION

DOCTOR OF PHILOSOPHY (PH.D.) IN INTEGRATIVE ANTHROPOLOGICAL SCIENCES, 2024

University of California, Santa Barbara, Santa Barbara, CA

MASTER OF ARTS (M.A.) IN INTEGRATIVE ANTHROPOLOGICAL SCIENCES, 2021

University of California, Santa Barbara, Santa Barbara, CA

MASTER OF SCIENCE (M.S.) IN BIOLOGY, 2015

University of California, San Diego, San Diego, CA

BACHELOR OF SCIENCE (B.S.) IN ECOLOGY, BEHAVIOR, AND EVOLUTION, 2013

University of California, San Diego, San Diego, CA

WORK EXPERIENCE

UNIVERSITY OF CALIFORNIA, SANTA BARBARA, CA, SEPTEMBER 2017 TO PRESENT

LECTURER, INTEGRATIVE ANTHROPOLOGICAL SCIENCES, SEPTEMBER 2024 TO PRESENT

- Leverage novel teaching methods and use of biological, ecological, and evolutionary concepts to build dynamic interdisciplinary curricula that foster a holistic understanding of natural history and biodiversity among students.
- Teach classes of varying sizes with an average size of 50 students.
- Ensure consistent positive course ratings and drive student engagement by analyzing performance data to introduce new teaching methods and techniques.
- Guide the development of students as learners and researchers by providing mentorship in academic and professional development.

PHD CANDIDATE, MARCH 2021 TO SEPTEMBER 2024

PHD STUDENT, SEPTEMBER 2017 TO MARCH 2021

- Designed and executed a rigorous multi-phase primate behavior and physiology research project, applying **advanced R** and **GIS** methods for data cleaning, analysis, modeling, and visualization of biological, geospatial, remote-sensed, and time-series data.
- Constructed an innovative panel of metabolic biomarkers of energy mobilization and starvation to elucidate physiological tradeoffs during energetic and nutritional stress.
- Prepared and secured approval for comprehensive research, sample collection, and sample export permits from multiple national and international government agencies, ensuring compliance with regulatory standards and facilitating fieldwork execution.
- Published in peer-reviewed journals and presented at academic conferences, showcasing innovative bio-anthropological and ecological research studies using creative visual design approaches and compelling science communication.
- Reshaped long-standing assumptions in primatology by conceptualizing and employing novel experimental design and approaches using remote-sensed, geospatial, and metabolic biomarker data.
- Built a collaborative academic environment in support of scientific growth and development by administering consultation to dozens of undergraduate students in research skills and professional development.
- Achieved multiple academic awards as well as \$50,462 in fellowships and \$92,894 in research grants, demonstrating outstanding research abilities and commitment to success.

U.S. GEOLOGICAL SURVEY (USGS), WESTERN ECOLOGIST RESEARCH CENTER, VENTURA, CA, SEPTEMBER 2015 TO SEPTEMBER 2017

ECOLOGIST

- Designed and executed a research project studying the impact of the California Drought on bobcat prey preference and resilience, working in collaboration with ecologists at USGS and University of California, Los Angeles.
- Collected and analyzed hundreds of bobcat blood samples for stable isotope biomarkers representing over a decade of data to better understand bobcat habitat use and foraging behavior throughout Southern California to link human-mediated habitat alteration to ecosystem functioning and conservation.
- Created and balanced a project budget and secured government grant for proposed project.

MOOPARK COLLEGE, MOORPARK, CA, JANUARY 2016 TO MAY 2017

INSTRUCTOR-HUMAN ANATOMY

- Instructed Human Anatomy to students, leading both lecture and laboratory sessions for 40 students per class.

- Planned, evaluated, and introduced revisions to curricula, content, course materials, and methods of instruction, and included cutting edge medical and biological research, linking learned concepts to real-world applications.

UNIVERSITY OF CALIFORNIA, SAN DIEGO, CA, JANUARY 2014 TO JUNE 2015

SAN DIEGO ZOO GLOBAL, GREATER SAN DIEGO AREA, CA, JUNE 2012 TO JUNE 2015

MASTER'S STUDENT, RESEARCHER

- Studied niche partitioning in two species of endangered reptiles in the Dominican Republic, using stable carbon and nitrogen isotope analysis of animal tissues to uncover food web interactions and feeding behavior.
- Planned and carried out fieldwork to collect biological samples and environmental data in remote and challenging tropical habitats.
- Collaborated with researchers at San Diego Zoo Global to align research goals and expectations and enhance mutual achievements.
- Wrote and applied for multiple international and federal export and import permits of samples from CITES-listed species.
- Presented research findings to leading scientists in my field at the IUCN Specialist Group conference.

UNIVERSITY OF CALIFORNIA SAN DIEGO, CA, APRIL 2012 TO APRIL 2015

LEAD TEACHING ASSISTANT

- Led discussion sections of 30+ students, delivering lectures and exercises illustrating complex biological and ecological concepts.
- Functioned as a liaison between the professor and 12 other Junior Teaching Assistants to mentor them on best pedagogical practices and effective science communication.
- Led review sessions covering the most challenging lecture topics and promoted student success on exams.
- Oversaw exam administration and grading for hundreds of students while coordinating effective and timely grading schedules among the teaching assistants.

FELLOWSHIPS

2024	Ridley Tree Scholarship (\$1,561)
2021	UCSB Graduate Opportunity Fellowship (\$42,435)
2017	UC Regents Fellowship (\$45,398)
2013	David Marc Belkin Memorial Research scholarship (\$3,500)

GRANTS

2024	Summer Research Grant – Integrative Anthropological Sciences, UCSB
2022	National Science Foundation Doctoral Dissertation Research Improvement Grant (\$31,062)
2022	Charles J. Erasmus Fund for Research – Anthropology, UCSB (\$900)
2021	Anthropology Department Grant, UCSB (\$1000)
2021	Graduate Student Research and Training Grant – Broom Center for Demography (\$2000)
2020	Graduate Student Research and Training Grant – Broom Center for Demography (\$2000)
2019	Charles J. Erasmus Fund for Research – Anthropology, UCSB (\$900)
2019	Summer Research Grant – Integrative Anthropological Sciences, UCSB (\$2,425)
2019	Graduate Student Research and Training Grant – Broom Center for Demography (\$2000)
2018	Summer Research Grant – Anthropology, UCSB (\$2000)
2018	Charles J. Erasmus Fund for Research – Anthropology, UCSB (\$1175)
2018	Graduate Student Research and Training Grant – Broom Center for Demography (\$2000)
2016	Independent Research Grant – US Geological Survey (\$2000)
2013	Academic Enrichment Program Grant – UCSD (\$500)
2013	IUCN – Iguana Specialist Group Conference Travel Grant (\$500)

ACADEMIC HONORS AND AWARDS

2023	People's Choice Award – Art of Science Competition, UCSB
2021	Excellence in Teaching Award (Nominee) – Graduate Student Association, UCSB
2020	Outstanding Teaching Award (Nominee) – Academic Senate, UCSB
2020	Excellence in Teaching Award (Nominee) – Graduate Student Association, UCSB
2019	Excellence in Teaching Award (Nominee) – Graduate Student Association, UCSB
2014	Excellence in Teaching Award – Division of Biological Sciences, UCSD
2013	Provost Honors – Thurgood Marshall College, UCSD

ACADEMIC SERVICE AND OUTREACH

- 2024 Co-organizer – Queer and Trans Inclusive Fieldwork Summit, University of California
- 2021-24 Director – AGSA Undergraduate and Graduate Student Mentorship Program, UCSB
- 2021-23 Student organizer – California Workshop on Evolutionary Social Sciences
- 2021-23 Graduate student mentor – International Graduate Student Workshop, UCSB
- 2019-22 Program developer – Field Safety Steering Committee, UCSB
- 2019-21 President – Anthropology Graduate Student Association (AGSA), UCSB
- 2019 Panelist – National Geographic Women of Impact
- 2019 Co-director – FieldWORKshop: Navigating Challenges in Fieldwork, UCSB
- 2018-21 Graduate student mentor – Graduate Biology Mentorship Association, UCSB
- 2018-19 Secretary, Outreach co-chair – Anthropology Graduate Student Association, UCSB
- 2018 Board member – recruitment board, Science and Engineering Research Academy, UCSB
- 2017-18 Member – Anthropology Graduate Student Association, UCSB
- 2017-18 Department representative – Graduate Student Association, UCSB
- 2017-18 Contributor – STEM Squad: Women in STEM science outreach platform
- 2014-15 Graduate student mentor – Ecology, Behavior, and Evolution Undergraduate Club, UCSD
- 2012-13 Provost Steering Committee member – Dimensions of Culture, Marshall College, UCSD
- 2012 Science mentor – San Diego High Tech Middle School, San Diego
- 2012 Student research assistant – Applied Animal Ecology, San Diego Zoo Global

TEACHING

ASSOCIATE/LECTURER

- 2024 Lecturer, ANTH103: Human-Wildlife Conflict, Anthropology, UCSB
- 2024 Lecturer, ANTH153T: Primate Behavior, Anthropology, UCSB
- 2024 Guest Lecturer, ANTH123 Data Analysis, “Data visualization and storytelling”, UCSB
- 2023 Associate, ANTH153T: Primate Behavior, UCSB
- 2022 Guest Lecturer, ANTH123: Data Analysis, “Geospatial data visualization,” UCSB
- 2021 Guest Lecturer, ANTH153: Primate Behavior, “Food, foraging, and females”, UCSB
- 2019 Guest Lecturer, ANTH153: Primate Behavior, “Primate conservation”, UCSB
- 2018 Guest Lecturer ANTH153: Primate Behavior, “Male strategies”, UCSB
- 2018 Guest Lecturer ANTH153: Primate Behavior, “Evolution of sex”, UCSB
- 2018 Associate, INT93 LS: The Story of Life on Earth, Summer Research Academy, UCSB
- 2016-17 Lecturer, Human Anatomy Lecture and Laboratory, Moorpark College

ASSISTANT, ENVIRONMENTAL SCIENCES

- Environmental Ecology
- World Population

ASSISTANT, ANTHROPOLOGY

- Evolutionary Medicine
- Primate Behavior
- The Study of Primates in Nature
- Human-Wildlife Conflict
- Introductory Biological Anthropology Introductory
- Introductory Biosocial Anthropology / Evolutionary Psychology
- Introductory Cultural Anthropology

ASSISTANT, BIOLOGY

- Organismal and Evolutionary Biology Evolution
- Conservation and the Human Predicament