

An Bui

Ecology, Evolution, and Marine Biology
University of California, Santa Barbara
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EDUCATION

- present PhD Student. University of California, Santa Barbara.
Ecology, Evolution, and Marine Biology.
Committee: Dr. Adrian Stier (chair), Dr. Holly Moeller (chair), Dr. Carla D'Antonio,
Dr. Robert Miller
- 2020 MArts. UCSB. Ecology, Evolution, and Marine Biology.
Committee: Dr. Holly Moeller (chair), Dr. Hillary Young, Dr. Carla D'Antonio
- 2015 BSc. UCSB. Ecology & Evolution with emphasis in Evolution.
Thesis: Predator avoidance behavior in Pacific tree frogs (*Pseudacris
hypochondriaca*)
Advisor: Dr. Cherie Briggs
- BArts. UCSB. English with specialization in Modern Literature and Critical
Theory.
Thesis: William Faulkner and the Ecological Significance of Yoknapatawpha
County
Advisor: Dr. Elizabeth Heckendorn Cook

PROFESSIONAL EXPERIENCE

Research and Field Experience

- Present Coal Oil Point Reserve, California
- Surveyed small mammals using Sherman trapping techniques
 - Surveyed mesocarnivores and large mammals using camera traps
- Santa Barbara Coastal LTER, California
- Collected kelp blades on SCUBA for microbial analyses
- 2018 Channel Islands National Marine Sanctuary
- Managed seabird survey transect operation
 - Assisted with baited remote underwater video deployment and retrieval
- Eldorado National Forest, California
- Conducted vegetation transects, small mammal surveys
- 2017-19 Tejon Ranch Conservancy, California
- Collected soil and vegetation samples for thesis project
 - Conducted floral and pollinator surveys, small mammal surveys,
vegetation transects, camera trapping, built mammal enclosures
- 2017-18 Channel Islands National Park, California
- Collected tissue samples from Western gulls
 - Deployed and retrieved GPS tags
- 2017 Palmyra Atoll, USA
- Conducted vegetation surveys, collected and identified invertebrates
 - Drove lagoon boats
- 2014 Hendrick Reserve Natural Area, California
- Collected frogs for behavioral experiments

Teaching Experience

- 2020-21 Ecological Modelling, Teaching Assistant (2 quarters)
Instructor: Dr. Holly Moeller
- 2019 Research in STEM – Marine Ecology (1 summer term)
Instructor: Mallory Rice
- 2019 Ecology of Managed Systems, Teaching Assistant (1 quarter)
Instructor: Dr. G. David Tilman
- 2018-21 Introduction to Ecology, Teaching Assistant (3 quarters)
Instructors: Dr. Holly Moeller, Dr. Deron Burkepile, Dr. Laura Bogar (2020),
Elizabeth Forbes (2021)
- 2017-20 Vertebrate Ecology and Evolution, Head Teaching Assistant (5 quarters)
Instructors: Dr. Hillary Young, Dr. Doug McCauley, Dr. Chris Evelyn (2019),
Devyn Orr (2020)

AWARDS AND FELLOWSHIPS

- 2019-2021 Santa Barbara Coastal LTER Graduate Fellowship (awarded 3 times)
- 2018 UCSB EEMB Graduate Fellowship (\$3000, awarded twice)
- 2014 Kirby-Jones Scholarship (\$5000)
Chris and Anita Anderson Scholarship (\$2800)
- 2013 William and Marie Thornbury Endowed Scholarship (\$2700)

GRANTS IN SUPPORT OF RESEARCH

- 2017 Bloom-Hays Ecological Research Grant (\$1700)
- 2016 Nisbet Research Grant (\$1100)
- 2015 Undergraduate Research and Creative Activities Grant (\$700)

PUBLICATIONS

- Orr, D, **A Bui**, MM Klope, M Lee, I McCullough, CI Motta, I Mayorga, K Konicek, K, HS Young. "Context-dependent effects of shifting large herbivore assemblages on plant structure and diversity." *Journal of Ecology*. 2021.
- Bui, A**, D Orr, M Lepori-Bui, K Konicek, HS Young, HV Moeller. "Soil fungal community composition and functional similarity shift across distinct climatic conditions." *FEMS Microbiology Ecology*. 2020.
- Miller-ter Kuile, A, D Orr, **A Bui**, R Dirzo, M Klope, DJ McCauley, C Motta, HS Young. "Impacts of rodent eradication on seed predation and plant community biomass." *Biotropica*. 2020.
- Lafferty, KD, JP McLaughlin, DS Gruner, TA Bogar, **A Bui**, JN Childress, M Espinosa, ES Forbes, CA Johnston, M Klope, A Miller-ter Kuile, M Lee, KA Plummer, DA Weber, RT Young, HS Young. "Secondary extinction of Asian tiger mosquitoes (*Aedes albopictus*) following rat eradication on Palmyra Atoll." *Biology Letters*. 2018.
- Hardesty-Moore, M, S Deinet, R Freeman, GC Titcomb, EM Dillon, K Stears, M Klope, **A Bui**, D Orr, HS Young, A Miller-ter Kuile, LF Hughey, and DJ McCauley. "Migration in the Anthropocene: how collective navigation, environmental system, and taxonomy shape the vulnerability of migratory species." *Phil. Trans. R. Soc. B*. 2017.

In revision:

Ingeman, KE, C Wolf, DR Williams, LZ Zhao, AL Ritger, WJ Ripple, KL Kopecky, EM Dillon, BP DiFiore, SR Csik, **A Bui**, AC Stier. "Glimmers of Hope in Global Apex Predator Recovery."

Miller-ter Kuile, A, A Apigo, **A Bui**, et al. "Predator-prey interactions of terrestrial invertebrates are determined by predator body size and species identity."

Orr, D, Z Zilz, E Duge, S Copeland, **A Bui**, CI Motta, A Swei, HS Young. "Context-dependent effects of wildlife and cattle on tick survivorship".

PRESENTATIONS

Contributed Talks

- 2019 Southern California All Hands useR and R-Ladies Meetup. "Exploring communities with `vegan` - an introduction to community analysis."
A Bui
Yosemite Symbiosis Workshop. "Tree-fungal associations in the Anthropocene: Symbiotroph community composition in a changing climate."
A Bui, HV Moeller, DA Orr, M Lepori-Bui, HS Young
- 2018 UCSB OUTreach Seminars. "Changing relationships in a changing world: how anthropogenic stressors reshape community composition and function."
A Bui

Posters

- 2015 UCSB Undergraduate Research Colloquium. "Predator avoidance behavior in Pacific tree frogs (*Pseudacris hypochondriaca*)."
A Bui, CJ Briggs, TL Dudley, E Wilson

Workshops

- 2020-21 UCSB DAnalysis and Coding Club. "Intro to R." Series of 4 workshops.
- 2020 Southern California Coastal Water Resource Project. "Introduction to community analysis in `vegan`."
R-Ladies Santa Barbara. "Data Visualization Part 1." Co-taught with S Csik and J Verstaen.
UCSC SCRUBs R Group. "Introduction to community analysis in `vegan`."
2019 EcoDataScience. "Introduction to community analysis in `vegan`."
UCSB EEMB. "Community analysis in `vegan`."
UCSB Science & Engineering Research Academy. "Introduction to R."
R-Ladies Santa Barbara. "Intro to the Tidyverse." Co-taught with S Csik.
UCSB EEMB. "Intro to the Tidyverse." Co-taught with S Csik.

HONORS

- 2020 UCSB Academic Senate Outstanding Teaching Assistant Award
- 2019 Honorable Mention – NSF Graduate Research Fellowship Proposal
- 2015 Outstanding Achievement in the English Major
Distinction in the Major, Ecology & Evolution
Distinction in the Major, English
- 2014 Phi Beta Kappa

PROFESSIONAL SERVICE

Department and Campus

Present Graduate student mentor, UCSB Data Analysis and Coding Club
Committee member, UCSB Diversity, Equity, Inclusion, and Wellness Committee
Student representative to the Graduate Affairs Committee
Student representative to the Faculty Diversity, Equity, and Inclusion Committee,
UCSB EEMB
Diversity, Equity, Inclusion, and Wellness Liaison, Graduate Student Advisory
Committee
Organizer, R-Ladies Santa Barbara
Committee member, UCSB Environmental Health & Safety: Field Safety

2018-19 Graduate student mentor, Women in Science and Engineering
Judge, Santa Barbara County Science Fair
Specimen preparator, Cheadle Center for Biodiversity and Restoration

2017 Poster session manager, Ecology and Evolution of Infectious Disease
Conference

Outreach

Present Scientist correspondent, Letters to a Pre-Scientist
Scientist, Skype a Scientist
Science Project Advisor, Goleta Valley Junior High School

2018-19 Speaker, Partners in Education Career Day

2018 Science project advisor, Partners in Education Science Fair

2016-17 Bird interpreter, Santa Barbara Natural History Museum

MANUSCRIPTS REVIEWED

Proceedings of the Royal Society: Biological Sciences

CERTIFICATIONS

Field First Aid, SSI Open Water, AAUS Scientific Diver, NAUI Rescue SCUBA Diver, NAUI Nitrox Diver, CPR/O2

RELEVANT COURSEWORK

2019 Advanced Data Analysis
2018 Data Analysis for Environmental Science and Management
2017 Software Carpentry (R, Github, Python)

REFERENCES

Holly Moeller
Assistant Professor, UC Santa Barbara

Adrian Stier
Assistant Professor, UC Santa Barbara

Hillary Young
Associate Professor, UC Santa Barbara

Carla D'Antonio
Professor, UC Santa Barbara

Deron Burkepile
Professor, UC Santa Barbara