

Katherine Lauck

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 🏠 1124 Menlo Drive, Davis, CA 95616

EDUCATION

UNIVERSITY OF CALIFORNIA, DAVIS

Davis, CA

- Advisor: Daniel Karp
- Graduate Group in Ecology Fellow
- Current GPA: 4.0 / 4.0

PhD candidate, Ecology
 Expected graduation: Spring 2024

UNIVERSITY OF CALIFORNIA, DAVIS

Davis, CA

- Advisor: Daniel Karp
- Graduate Group in Ecology Fellow
- GPA: 4.0 / 4.0

M.S. Ecology
 February 2022

CORNELL UNIVERSITY

Ithaca, NY

- Dean's List (Spring 2012 – Fall 2013)
- Graduated Cum Laude
- Cum. GPA: 3.53 / 4.0

B.S. Ecology and Evolutionary Biology
 January 2015

AWARDS

Selma Herr Research Award	2020-2022
Horodas Conservation Fellowship	2022
Jastro-Shields Research Fellowship	2021
Jastro-Shields Research Award	2020-2021
Graduate Group in Ecology Fellowship	2019-2020
Fulbright Student Research Award	2017-2018

PUBLICATIONS

- Lauck K. S.**, Ke, A., Olimpi, E. M., Paredes, D., Hood, K., Phillips, T., Anderegg, W., Karp, D. (in revision at *Science*). Habitat conversion to agriculture and temperature extremes synergistically erode avian reproductive success across the continental United States.
- Echeverri A., Smith, J. R., MacArthur-Waltz, D., **Lauck, K. S.**, Anderson, C. B., Vargas, M. R., Quesada, I. A., Wood, S. A., Chaplin-Kramer, R., Daily, G. C. (2022). Biodiversity and infrastructure interact to drive tourism to and within Costa Rica. *PNAS* 119:11. doi:[10.1073/pnas.2107662119](https://doi.org/10.1073/pnas.2107662119)
- Lauck K. S.**, Miller A. E. (*in prep.*). Trapping for the pet trade drives range contractions in wild bird populations. Target journal Conservation Biology.
- Rentschlar K. A., Miller A. E., **Lauck K. S.**, Rodiansyah, Bobby M., Muflihati, Kartikawati (2018). A silent morning: The songbird trade in West Kalimantan, Indonesia. *Tropical Conservation Science* 11:1-10. doi:[10.1177/1940082917753909](https://doi.org/10.1177/1940082917753909).

PRESENTATIONS

- Lauck K. S.** (2022). *Habitat conversion to agriculture and temperature extremes synergistically erode avian reproductive success across the continental United States*. Presentation at the joint annual meeting of the Ecological Society of America and the Canadian Society for Ecology and Evolution in Montréal, Canada.
- Lauck K. S.** (2021). *Habitat conversion to agriculture and temperature extremes synergistically erode avian reproductive success across the continental United States*. Presentation at the online annual meeting of the Ecological Society of America.
- Lauck K. S.** (2020). *Trapping for the pet trade drives range contractions in wild bird populations*. Presentation at the Wildlife, Fish, and Conservation Biology Seminar at UC Davis.

Lauck K. S., Trianto A., DiGiorgio A. L., Knott C. (Aug 2016). *Where do wild Bornean Orangutans (Pongo pygmaeus wurmbii) get dietary water?* Poster was presented at the joint meeting of the International Primatological Society and the American Society of Primatologists, Chicago, IL. doi:[10.13140/RG.2.2.34201.93284](https://doi.org/10.13140/RG.2.2.34201.93284).

DiGiorgio A. L., Scott K. S., **Lauck K. S.**, Trianto A., Knott C., Weber K. (Aug 2016). *Bornean Orangutan Long Call as a Resource Guarding Behavior in Gunung Palung National Park, Indonesia*. Poster was presented at the joint meeting of the International Primatological Society and the American Society of Primatologists, Chicago, IL. doi:[10.13140/RG.2.2.20672.53768](https://doi.org/10.13140/RG.2.2.20672.53768).

Lauck K. S. (2015). *Tree Climbing 101*. Workshop and training for Indonesian employees of International Animal Rescue, Ketapang, Indonesia.

EMPLOYMENT

UC DAVIS DEPT. WILDLIFE, FISH AND CONSERVATION BIOLOGY

Davis, CA

Teaching Assistant

Jan 2020-present

- Taught discussion sections independently to 15 classes of about 25 students each.
- Helped develop research project and mentor students through steps of completing a small group research project in Fall 2020-2022.
- Updated discussion materials and content for current course.
- Courses: Tropical Ecology, Conservation Biology, Working Lands Conservation
- Developed rubrics for and graded exams and writing assignments.

UC DAVIS DEPT. WILDLIFE, FISH AND CONSERVATION BIOLOGY

Davis, CA

Graduate Student Researcher

April 2021-September 2022

- To date, mentored 5 undergraduate students and 2 graduate students in grant acquisition, ornithological field skills and research site design.
- Conducted two field seasons, each 6 months long, to explore the mechanisms underlying reduced reproductive output of birds in agriculture and hot weather.
- Monitored over 200 nesting attempts by Tree Swallow and Western Bluebird; banded, collected blood samples, and measured adults and juveniles.
- Constructed Raspberry Pi-based motion-activated cameras to monitor nest attendance.
- Curated and cleaned data, and conducted analyses in R.

VIRGINIA POLYTECHNIC INSTITUTE

Lexington, VA

Research Technician

May – Aug 2019

- Conducted point counts as part of the Virginia Breeding Bird Survey.
- Worked independently to collect and report data.

KAUAI FOREST BIRD RECOVERY PROJECT

Kokee State Park, HI

Field Technician

Jan – May 2019

- As part of a team working primarily at a remote research station, I searched for nests of endangered birds, maintained the rat control grid, and collected and curated data.
- Advised the project in rope use during banding and measuring of Akikiki chicks.

PLANET INDONESIA

Pontianak, West Kalimantan, Indonesia

Consultant

Jan – Nov 2018

- I will publish two scientific articles resulting from work carried out as a Fulbright grantee (see [PUBLICATIONS](#)).
- Trained new employees to carry out protocols I wrote as a Fulbright grantee (see [RESEARCH](#)).
- Built a Google Team Drives-based database to centralize and organize Planet Indonesia's data

KAUAI FOREST BIRD RECOVERY PROJECT

Kokee State Park, HI

Intern

Feb 2016 – June 2016

- As part of a four-person team working primarily at a remote research station, I searched for nests of endangered birds, maintained the rat control grid, and collected and curated data.
- Advised the project in rope use during five harvests of 'Akikiki and 'Akeke'e eggs, with no incidents.

WINKLER LAB, CORNELL UNIVERSITY

Ithaca, NY

Research Assistant

May – June 2013 – 2014

- Trapped, banded, measured, and bled hundreds of juvenile and adult Tree Swallow.

RESEARCH

FULBRIGHT U.S. STUDENT PROGRAM

Planet Indonesia, Pontianak, West Kalimantan, Indonesia

Principal Investigator

Jan 2017 – Jan 2018

- Proposed, planned, wrote protocols for, and collected data for a research project to assess the effects of the bird trade on primary rainforest birds.
- Trained three Indonesian assistants to apply the survey protocol and managed them throughout the project.
- Created the first maps of Cagar Alam Gunung Niut that combined forest cover, bird occupancy, and human habitation data using ArcMap.
- Communicated daily using the Indonesian language in both professional and personal contexts.

GUNUNG PALUNG ORANGUTAN PROJECT

West Kalimantan, Indonesia

Research Assistant

April 2015 – Jan 2016

- Climbed 50+ emergent rainforest trees to collect orangutan food samples for nutritional analysis.
- Maintained a safe environment for backcountry tree climbing throughout the project, with no injuries.
- Created graphs and scripted analyses using R for Andrea Digiorgio's presentations to local governments and at the Aug 2016 conference of the International Primatological Society and the American Society of Primatologists.

IVY EXPEDITIONS

Sabah, Malaysia and Ithaca, NY

Expedition Member

Jan 2012 – Jan 2015

- As part of a three- to five-person team, planned, secured funding for, and implemented all aspects of two expeditions (Feb–May 2013 and June–July 2014) to rural Malaysia.
- Gathered natural history data on poorly known rainforest birds by nest searching, auditory spot mapping, collecting video data, and banding birds.
- Taught other participants to apply field ornithology skills.

SERVICE

ECOLOGY GRADUATE GROUP EXECUTIVE COMMITTEE

Davis, CA

Student Representative

September 2022 –present

- Attend meetings and vote on issues regarding policies and procedures of the Ecology Graduate Group, including decisions about which faculty to admit.
- Liase with students and bring their concerns before the Executive Committee, then advocate for their resolution in favor of students' interests.

ECOLOGY GRADUATE GROUP DIVERSITY COMMITTEE'S ADMISSIONS AND AWARDS SUBCOMMITTEE

Davis, CA

Co-chair

September 2021 –September 2022

- Facilitated implicit bias trainings for admissions reviewers.
- Ensured student representation on committee tasked with improving the holistic review admissions process.

ECOLOGY GRADUATE GROUP DIVERSITY, EQUITY, AND INCLUSION TASK FORCE

Member

Davis, CA

January 2021 –September 2022

- Helped plan response to student petition to reform inequitable policies and practices in the Ecology Graduate Group.
- helped draft community expectations that would establish a culture of accountability for discriminatory actions.

ECOLOGY GRADUATE STUDENT ASSOCIATION

Davis, CA

Co-chair

September 2020 –September 2021

- With two other graduate students, I developed a comprehensive resource for incoming graduate students to fill gaps in information provided to new students.
- Facilitated several committees tasked with organizing a yearly research symposium, social events, a student newsletter, and a fundraiser for local charities.

EXPANDING YOUR HORIZONS

Ithaca, NY

Workshop leader

March 2014 –May 2014

- With two other undergraduate students, proposed, planned, and presented a daylong, hands-on workshop about bird anatomy and specimen preparation for a group of 10 local high school girls.

INSECTAPALOOZA

Ithaca, NY

Event guide

October 2012

- Supervised children visiting the microscopy room at Insectapalooza, a one-day event held at Cornell University to educate children about insects and arachnids.