Alison Ke

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Education

2017 – 2022 (anticipated) University of California, Davis

Ph.D., Ecology

2013 – 2017 University of California, Berkeley*

B.S., Forestry and Natural Resources

B.A., Statistics

Minor in Sustainable Design

*Honors with high distinction

Publications

1. Mastrángelo, M. E., Pérez-Harguindeguy, N., Enrico, L., Bennett, ... **Ke, A.**,... & Frishkoff, L. (2019). Key knowledge gaps to achieve global sustainability goals. *Nature Sustainability*, 1-7.

- 2. Frishkoff, L., **Ke, A.,** Martins, I., Olimpi, E., Karp, D. (2019). Countryside Biogeography: the Controls of Species Distributions in Human-Dominated Landscapes. *Current Landscape Ecology Reports*. (in press).
- 3. Karp, D., Echeverri, A., Zook, J., Juarez, P., **Ke, A**., Krishnan, J., Chan, K., Frishkoff, L. (2019). Remnant forest on private land fosters Neotropical bird communities that are indistinguishable from formal reserves. *Journal of Applied Ecology*. (in press)
- 4. **Ke, A.,** Sibiya, M. D., Reynolds, C., McCleery, R. A., Monadjem, A., & Fletcher, R. J. (2018). Landscape heterogeneity shapes taxonomic diversity of non-breeding birds across fragmented savanna landscapes. *Biodiversity and Conservation*, 1-18.
- 5. Love, K., Kurz, D. J., Vaughan, I. P., **Ke, A.,** Evans, L. J., & Goossens, B. (2018). Bearded pig (Sus barbatus) utilisation of a fragmented forest—oil palm landscape in Sabah, Malaysian Borneo. *Wildlife Research*, 44(8), 603-612.
- 6. Reynolds, C., Fletcher, R. J., Carneiro, C. M., Jennings, N., **Ke, A.,** LaScaleia, M. C., ... & Magagula, C. N., (2018). Inconsistent effects of landscape heterogeneity and land-use on animal diversity in an agricultural mosaic: a multi-scale and multi-taxon investigation. *Landscape Ecology*, 1-15.
- 7. **Ke, A.**, Luskin, M. S., (2017). Integrating disparate occurrence reports to map data-poor species ranges and occupancy: a case study of the Vulnerable bearded pig Sus barbatus. *Oryx*, 1-11.
- 8. Luskin, MS., **Ke, A**., (2017). The bearded pig. In Melletti, M., & Meijaard, E. (Eds). Ecology, Conservation and Management of Wild Pigs and Peccaries. Cambridge University Press.
- 9. Luskin, MS., Linkie, M., Meijaard, E., **Ke, A**., (2016). *Sus barbatus*. The IUCN Red List of Threatened Species: e.T41772A10559190.

Peer Review

Oryx; Scientific Reports; Biotropica; Biodiversity and Conservation

Presentations and Workshop Sessions

A hierarchical model to estimate species shifts in behavior and abundance. 2021. Oral presentation at the Ecological Society of America conference.

Overexploitation. 2019. Guest lecture in Tropical Ecology (WFC 198) at UC Davis.

What I wish I knew about grad school. 2018. Guest lecture at the Aggie Connections Freshman Seminar at UC Davis.

Landscape heterogeneity shapes bird taxonomic diversity across fragmented savanna landscapes. 2018. Oral presentation at the Wildlife, Fish, and Conservation Biology Seminar at UC Davis.

Landscape heterogeneity shapes bird taxonomic diversity across fragmented savanna landscapes. 2018. Oral presentation at the American Ornithological Society conference in Tucson, AZ.

- Contrasting avian taxonomic, functional, and phylogenetic diversity between IUCN protection levels. 2017. Oral presentation at the Bay Area Conservation Biology Symposium at UC Davis.
- Avian Responses to Landscape Heterogeneity. 2016. Oral presentation at the Savanna Research Centre Biodiversity Symposium in Swaziland.
- Automatic Camera Trap Data Organization, Storage, and Analysis. 2015. Oral presentation at the Wildlife Society's Advanced Camera Trapping Workshop in Santa Rosa, California.

Awards

2021	ARCS Fellowship (\$12,000)
	Pielou Award (Best contribution to statistical ecology at ESA conference; \$250
2020	Jastro Research Award (\$3,700)
	Selma Herr Award (\$4,700)
2019	Academic Senate Grant (\$25,000, co-written by Daniel Karp)
	Selma Herr Award (\$3,000)
	Hemispheric on the Americas Summer Field Research Award (\$1,600)
2018	Selma Herr Award (\$3,400)
	American Ornithological Society Student Membership Award
2017	Institute of International Studies Outstanding Poster Award (\$250)
	NSF Graduate Research Fellowship (\$138,000)
2016	Institute of International Studies Merit Scholarship (\$2,000)
	Show-Kotok Scholarship (Merit-based scholarship at UC Berkeley; \$2,000)
	College of Natural Resources Travel Grant (\$1,000)
2015	Grant-in-Aid of Research (\$500)
	College of Natural Resources Travel Grant (\$1,000)
	SERC Decal Fellowship (\$200 for class resources)

Teaching Experience

Spring 2020	Teaching Assistant for Bayesian Models: A Statistical Primer (ECL 298)
Spring 2019	Teaching Assistant for Methods in Wildlife and Fish Biology (WFC 100)
Winter 2019	Teaching Assistant for Tropical Ecology (WFC 198)
Winter 2019	Helper for R-Davis Data Carpentry Course
Fall 2018	Teaching Assistant for Conservation Biology (WFC 198)
Spring 2015	Mathematics Tutor for The MasterCard Foundation
	One-on-one tutoring for a UC Berkeley Student in calculus
Fall 2015	Facilitator for "Sustainable Energy for a Greener Tomorrow"
	UC Berkeley Energy & Resources Group; 18 undergraduate students
Fall 2014	Mathematics Tutor for The Student Learning Center
	Drop-in tutoring for over 100 UC Berkeley students in calculus and statistics

2014 Dineen Scholarship (Merit-based scholarship at UC Berkeley; \$5,000)

Relevant research experience

2019-present Field project leader in the Esmeraldas Province, Ecuador

Planned and implemented experiment to study the ways agriculture affects cavity-nesting bird distribution and reproduction. Searched for natural cavities, installed and monitored 100 nest boxes, and conducted sentinel insect experiments

2018-present Davis Nest Box Network Field Leader

Coordinate with our museum staff, train interns, schedule team visits, and ensure programmatic and data integrity for a bluebird nest box network in Davis parks

2018 Field project leader in the Magdalena River Valley, Colombia

Planned and completed nine weeks of bird and vegetation surveys at 144 sites along the Magdalena River Valley

$2016 \ \hbox{--}\ 2017$ $\,$ IRES Researcher in Swaziland with the University of Florida

Completed nine weeks of field work in Swaziland, focusing on bird surveys, to understand the role of multi-scale heterogeneity on biodiversity

2014 - 2016 Undergraduate Researcher in the Potts Lab

Sorted photos of Sumatran wildlife, used automated software to manage the data, and mapped species distributions using ArcGIS

2016 - 2017 Undergraduate Researcher in the Brashares Lab

Trained two teams in camera trap data management, and conducted wildlife ecology research in Mendocino County and Gorongosa National Park

Professional Affiliations & Leadership Roles

Stewardship Chair of Society for Conservation Biology (UC Davis Chapter)

Mentor for WiSE (Women in Science and Engineering) Mentorship Program

Member of American Ornithological Society

Member of Graduate Group in Ecology Diversity, Equity, and Inclusion Task Force

Languages

English – fluent; Spanish – limited working proficiency; Mandarin – limited working proficiency