

Alison Ke

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Education

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|---------------------------|---|
| 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
<i>*Honors with high distinction</i> |

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

Presentations and Workshop Sessions

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.

My Experience with SPUR. 2015. Invited oral speaker at the College of Natural Resources Advisory Board Meeting, UC Berkeley.

Awards

2019 Academic Senate Grant (\$25,000, co-written by Daniel Karp)

2019 Selma Herr Award (\$3,000)

2019 Hemispheric on the Americas Summer Field Research Award (\$1,600)

2018 Selma Herr Award (\$3,400)

2018 American Ornithological Society Student Membership Award

2017 Institute of International Studies Outstanding Poster Award (\$250)

2017 NSF Graduate Research Fellowship (\$138,000)

2016 Institute of International Studies Merit Scholarship (\$2,000)

2016 Show-Kotok Scholarship (Merit-based scholarship at UC Berkeley; \$2,000)

2016 College of Natural Resources Travel Grant (\$1,000)

2015 Grant-in-Aid of Research (\$500)

2015 College of Natural Resources Travel Grant (\$1,000)

2015 SERC Decal Fellowship (\$200 for class resources)

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

Teaching Experience

- 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

Research experience

- 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 as part of my dissertation to measure the effects of climate and land-use change on Neotropical bird communities
- 2016 - 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, and presented results to the Swazi National Trust Commission at an international conference
- 2014 - 2016 **Undergraduate Researcher in the Potts Lab**
Sorted photos of Sumatran wildlife, used automated software to manage the data, mapped species distributions using ArcGIS, conducted literature reviews and scientific presentations, and visited researchers in the field in Sabah, Malaysia
- 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
- 2012 **Fox Chase Cancer Center**
Worked in a biomolecular lab to create and maintain transgenic lines of zebrafish

Software Experience

Experienced user of *R* statistical software and ArcGIS

Professional Affiliations

American Ornithological Society; Society for Conservation Biology (Stewardship Chair);
Mentor for WiSE (Women in Science and Engineering) Mentorship Program

Languages

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