# 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. **Ke, A.,** Sollmann, R., Frishkoff, L., & Karp, D. S. (2022). A hierarchical N-mixture model to estimate behavioral variation and a case study of Neotropical birds. *Accepted to Ecological Applications*.
- 2. Fogarty, F., Yen, J., Fleishman, E., Sollmann, R., **Ke, A.** Multiple-region, N-mixture community model to assess associations of riparian area, fragmentation, and species richness. *(in review)*
- 3. 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.
- 4. Frishkoff, L. O., **Ke, A.**, Martins, I. S., Olimpi, E. M., & Karp, D. S. (2019). Countryside biogeography: the controls of species distributions in human-dominated landscapes. *Current Landscape Ecology Reports*, *4*(2), 15-30.
- 5. Karp, D. S., Echeverri, A., Zook, J., Juárez, P., **Ke, A.**, Krishnan, J., ... & Frishkoff, L. O. (2019). Remnant forest in Costa Rican working landscapes fosters bird communities that are indistinguishable from protected areas. *Journal of Applied Ecology*, *56*(7), 1839-1849.
- 6. **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.
- 7. 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.
- 8. 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.
- 9. 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.
- 10. 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.

11. 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; Ecography

#### 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)
2021	Jastro Research Award (\$6,000)
	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)
2014	Dineen Scholarship (Merit-based scholarship at UC Berkeley; \$5,000)

Spring 2020Teaching Assistant for Bayesian Models: A Statistical Primer (ECL 298)Spring 2019Teaching Assistant for Methods in Wildlife and Fish Biology (WFC 100)Winter 2019Teaching Assistant for Tropical Ecology (WFC 198)Winter 2019Helper for R-Davis Data Carpentry CourseFall 2018Teaching Assistant for Conservation Biology (WFC 198)Spring 2015Mathematics Tutor for The MasterCard Foundation one-on-one tutoring for a UC Berkeley Student in calculusFall 2015Faclitator for "Sustainable Energy for a Greener Tomorrow" UC Berkeley Energy & Resources Group; 18 undergraduate studentsFall 2014Mathematics Tutor for The Student Learning Center Drop-in tutoring for over 100 UC Berkeley students in calculus and statisticsRelevantresearch experience2019-presentField 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 experiments2018-presentField 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 Valley2016 - 2017IRES 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 biodiversity2014 - 2016Undergraduate Researcher in the Brashares Lab Sorted photos of Sumatran wildlife, used automated software to manage the data, and mapped species distributions using ArcGIS2016	Teaching Experience		
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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