
Evolution, Ecology and Organismal Biology – Ohio State University
318 W. 12th Ave., 300 Aronoff Laboratory, Columbus, OH, 43210

POSITIONS AND APPOINTMENTS

Ohio State University	Postdoctoral Researcher	2020–Present
Am. Museum of Natural History	Research Associate	2020–Present

EDUCATION

Richard Gilder Graduate School	Ph.D. Comparative Biology	2016–2020
Columbia University	M.A. Conservation Biology	2014–2016
Cornell University	B.A. Ecology and Evolutionary Biology	2010–2014

PUBLICATIONS AND MANUSCRIPTS

Provost, Kaiya; Myers, Edward; Smith, Brian. In press. Comparative phylogeography reveals how a barrier filters and structures taxa in North American warm deserts. *Journal of Biogeography*. Preprint available at *bioRxiv*, 2020.06.17.157842.

Ingala, Melissa; Simmons, Nancy; Wiltsch, Claudia; Krampis, Konstantinos; **Provost, Kaiya;** Perkins, Susan. In revision. DNA Metabarcoding Reveals Dietary Network Structure in a Neotropical Bat Community. *American Naturalist*.

Provost, Kaiya; Mauck, William; Smith, Brian. 2018. Genomic divergence in allopatric Northern Cardinals of the North American warm deserts is linked to behavioral differentiation. *Ecology and Evolution*, 8(24), 12456-12478. doi.org/10.1002/ece3.4596. Press: AMNH, Audubon, Gizmodo. Preprint available at *bioRxiv*, 347492.

Provost, Kaiya; Smith, Brian; Joseph, Leo. 2018. Resolving a phylogenetic hypothesis for parrots: implications from systematics to conservation. *Emu – Austral Ornithology*, 118(1), 7-21. DOI.10.1080/01584197.2017.1387030.

Provost, Kaiya. 2015. Little Nightjar (*Setopagis parvula*), Neotropical Birds Online (T. S. Schulenberg, Ed.). Ithaca: Cornell Lab of Ornithology; retrieved from Neotropical Birds Online: http://neotropical.birds.cornell.edu/portal/species/overview?p_p_spp=221016

IN-PREP PUBLICATIONS

Smith, Brian; Merwin, Jon; **Provost, Kaiya;** Brumfield, Robb; Ferreira, Mateus; Mauck, William; Moyle, Robert; Wright, Timothy; Joseph, Leo. In prep. Distinguishing sources of concatenated and species tree discordance to resolve phylogenomic relationships in the parrots of the world.

Tobias, Joseph; Sheard, Catherine; Pigot, Alex; Neate-Clegg, Montague; [...] **Provost, Kaiya;** [...] Schleuning, Matthias. In prep. Untitled bird trait big data paper.

Provost, Kaiya; Smith, Brian. In prep. Local adaptation matters for desert birds after divergence across barriers, not before.

Provost, Kaiya; Shue, Stephanie; Forcellati, Meghan; Smith, Brian. In prep. A mosaic of spatial, historical, and demographic factors structures the genomic landscape of desert birds.

CONFERENCE PRESENTATIONS

- Provost, Kaiya;** Shue, Stephanie; Forcellati, Meghan; Smith, Brian. *Landscape genomics of desert birds reveals that multiple mechanisms cause heterogeneity across chromosomes and species*. Talk presented at: Virtual Stand Alone Conference of The American Society of Naturalists 2021; Jan. 11 2021; Virtual.
- Provost, Kaiya;** Shue, Stephanie; Forcellati, Meghan; Smith, Brian. *Landscape genomics of desert birds reveals that multiple mechanisms cause heterogeneity across chromosomes and species*. Talk presented at: North American Ornithological Conference 2020; Aug. 14 2020; Virtual.
- Provost, Kaiya;** Shue, Stephanie; Forcellati, Meghan; Smith, Brian. *Environmental impacts structuring genomic and phenotypic variation in desert birds*. Talk presented at: Society of Systematic Biology 2020 Standalone Meeting: Systematics in the Swamp; Jan. 5 2020; Gainesville, FL.
- Provost, Kaiya.** *Environment Wins! Using SDMs to Assess Drivers of Morphological Divergence in Desert Birds*. Talk presented at: New York Regional Species Distribution Modeling Meeting; Dec. 2 2019; New York, NY.
- Provost, Kaiya;** Shue, Stephanie; Forcellati, Meghan; Smith, Brian. *Comparative genomics and modes of differentiation in North American warm desert birds*. Talk presented at: American Ornithological Society 137th Stated Meeting; Jun. 26 2019; Anchorage, AK.
- Provost, Kaiya;** Shue, Stephanie; Forcellati, Meghan; Smith, Brian. Ernst Mayr Symposium: *Comparative genomics and modes of differentiation in North American warm desert birds*. Talk presented at: Evolution Meeting; Jun. 22 2018; Providence, RI.
- Provost, Kaiya;** Mauck, William, III; Smith, Brian. *Population genomics of Southwestern Desert Birds*. Talk presented at: American Ornithological Society 136th Stated Meeting; Apr. 13 2018; Tucson, AZ.
- Provost, Kaiya;** Mauck, William, III; Smith, Brian. *Genomic differentiation in Northern Cardinals of the North American warm deserts is maintained by behavioral isolation*. Talk presented at: Metropolitan Society of Natural Historians Sixth Annual Symposium; Feb. 25 2018; New York, NY.
- Provost, Kaiya;** Mauck, William, III; Smith, Brian. *Genomic divergence across a barrier is mediated by song dialects*. Poster presented at: Evolution Meeting; Jun. 24 2017; Portland, OR.
- Provost, Kaiya;** Mauck, William, III; Smith, Brian. *Song dialect mediates genomic divergence across a barrier*. Poster presented at: Social Evolution and Genome Complexity Symposium; Mar. 3 2017; New York, NY.
- Provost, Kaiya;** Mauck, William, III; Smith, Brian. *Testing the permeability of a barrier using integrative phylogeography*. Talk presented at: Society of Systematic Biologists Standalone Meeting; Jan. 10 2017; Baton Rouge, LA.
- Provost, Kaiya;** Mauck, William, III; Smith, Brian. *Genetic and behavioral divergence among Northern Cardinal populations: Testing the permeability of a biogeographic barrier*. Talk presented at: North American Ornithological Conference; Aug. 18 2016; Washington, DC.
- Provost, Kaiya;** Mauck, William, III; Smith, Brian. *Genetic and behavioral divergence in a songbird across a barrier*. Poster presented at: Women in Science at Columbia Graduate Research Symposium; Apr. 23 2016; New York, NY.

Pian, Rebecca; Gill, Lucy; **Provost, Kaiya**; Wray, Amy; Cracraft, Joel. *The First American Biotic Interchange: finding congruence in fossil and molecular data*. Paper presented at: Society of Vertebrate Paleontology Meeting; Oct. 12-17 2015; Dallas, TX.

GRANTS, FELLOWSHIPS, AWARDS, AND HONORS

National Science Foundation	NSF DEB-2016189, Postdoc Co-PI	2020–2022
N. Am. Ornithological Conference	Student Presentation Honorable Mention	2020
Society of Systematic Biologists	Travel Award	2020
American Ornithological Society	Student Presentation Honorable Mention	2019
Society of Systematic Biologists	Ernst Mayr Symposium Finalist	2019
American Society of Naturalists	Travel Award	2019
Richard Gilder Graduate School	Sydney Anderson Travel Award 2019	2019
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American Ornithological Society	Travel Award	2018
AMNH Ornithology	Gormezano Memorial Grant	2018
Society of Systematic Biologists	Grad Student Research Award	2017
American Ornithological Society	AOS Award	2017
AMNH Ornithology	Gormezano Memorial Grant	2017
Society of Systematic Biologists	Travel Award	2017
Richard Gilder Graduate School	Ph.D. Fellowship	2016–2020
Cooper Ornithological Society	Travel Award	2016
Columbia University	Alfred Russel Wallace Award	2016
American Ornithologists Union	Wetmore Award	2016
Columbia University	Dept. of E3B Thesis Grant	2015
Cornell University	Dean’s List	2013–2014

TEACHING EXPERIENCE

The Ohio State University	Guest Lecturer, Birds of Ohio	2021
The Spence School	Scientist-in-Residence	2020
AMNH	Mentoring High School Student	2018–2019
Hunter College, CUNY	Adjunct Professor, Intro to Comp. Sci.	2018
Black Rock Forest	Summer Science Camp	2018
AMNH	Mentoring High School Student	2017–2018
Columbia University	Life Systems/Environmental Biology II	2016
Columbia University	Environmental Biology I	2015–2016
Cornell University	Human Biology and Evolution	2013–2014

RESEARCH EXPERIENCE

The Ohio State University	North American bird phylogeography	2020–2022
The Ohio State University	Big-data bird bioacoustics	2020–2022
Richard Gilder Graduate School	Simulation and machine learning	2018–2020
Richard Gilder Graduate School	Avian speciation across barriers	2016–2020
Richard Gilder Graduate School	Parrot systematics and phylogeny	2016–2020
Columbia University	Northern Cardinal genetics and behavior	2014–2016
Research Assistant, Marina Cords	Primate behavioral anthropology	2014–2016

Burke Museum	Ornithology collections volunteer	2014
Cornell University	Mistletoe invasions on junipers	2014
Cornell University	Habitat and bird flush distances	2014
Cornell University	Eastern Grey Squirrel behavior	2011

PROFESSIONAL MEMBERSHIPS

American Ornithological Society • Women in Natural Sciences, AMNH Chapter
 Sigma Xi • Society of Systematic Biologists • Society for the Study of Evolution
 Women in Science at Columbia • American Society of Naturalists
 Womxn in Museum Ornithology

SKILLS

Python • R • Octave/Matlab • Linux • SLiM • Next-Generation Sequencing • ArcGIS • QGIS
 Sanger Sequencing • Playback Experiments • Statistical Analyses • Open Office
 Video Editing • Scientific Collection • Specimen Preparation • Microsoft Office

LEADERSHIP AND OUTREACH

Dispatches from the Field	Guest Blogger	2021
AMNH	Milstein Science Series: Polar Bears	2020
Society of Systematic Biology	Grad Student Award Reviewer	2020
Graduate Women in Science	National Fellowship Reviewer	2019
GSTEM	Panel Speaker	2019
Biology on Tap	Invited Speaker: Deserts	2019
Bergen County Academies	Research Expo Judge	2019
AMNH	Superb Owl Animal Trivia	2019
AMNH	Instagram Research Outreach	2019
AMNH	Mentoring Circle Leader	2018–2019
AMNH	High School Mentorship	2018–2019
AMNH	Meet the Scientist	2018
AMNH	Identification Day	2018
AMNH	Member Open House	2018
Women in Natural Sciences	Steering Committee, Social Chair	2018–2020
AMNH	High School Mentorship	2017–2018
AMNH	Annual Family Party	2017
AMNH	Los Sueños del Caribe	2017
AMNH	Member Open House	2017–2018
Columbia University	Invited graduate orientation speaker	2015
Columbia University	E3B Student Representative	2014–2015
Columbia University	Science Saturday Starters	2014

ACADEMIC SERVICE

Evolutionary Applications	Peer review (1 manuscript)	2020
Ecology and Evolution	Peer review (1 manuscript)	2019
Molecular Ecology	Peer review (4 manuscripts)	2018–2021

DEPARTMENTAL TALKS

- Provost, Kaiya.** *Population genomics of southwestern desert birds.* Talk presented at: American Museum of Natural History Second Year Symposium: November 30 2017.
- Provost, Kaiya.** *Genetic and behavioral divergence among Northern Cardinal populations: Testing the permeability of a biogeographic barrier.* Talk presented at: Columbia University Department of Ecology, Evolution, and Environmental Biology MA Thesis Presentations: May 10 2016.
- Provost, Kaiya.** *Behavioral and molecular data suggest different mechanisms for isolation across a filter barrier.* Talk presented at: Columbia University Department of Ecology, Evolution, and Environmental Biology Seminar: Oct. 22 2015.
- Provost, Kaiya.** *Behavioral and molecular data suggest different mechanisms for isolation across a filter barrier.* Talk presented at: American Museum of Natural History Explorations in Ecological-Evolutionary Modeling Meeting: Sep. 24 2015.
- Provost, Kaiya.** *Testing the permeability of biogeographic barriers: avian diversification in the southwestern deserts.* Talk presented at: Columbia University Department of Ecology, Evolution, and Environmental Biology Seminar: Jan. 29 2015.

CERTIFICATES

SLiM Workshop, University of East Anglia (via Ben Haller, Cornell University), 15 Sep. 2019
Machine Learning, Stanford University (via Coursera), coursera.org/verify/8KEWL7E9LEK7

SELECTED COURSEWORK

- Richard Gilder Graduate School:* Machine Learning (Independent Study); Spatial Bioinformatics; Foundations of Biological Classification; Second Year Symposium; Speciation; Applied Phylogenetics; Evolution; GIS and Remote Sensing for Conservation and Evolutionary Biology; Grantsmanship, Ethics, and Communication; Systematics.
- Columbia University:* Algorithmic Approaches to Biological Data; Ethics in Sustainability and Development; Conservation Biology; Phylogenomics; Applied Statistical Methods; Fundamentals of Ecology and Evolution; Biogeography.
- Cornell University:* Deserts, Snakes, and Mentorship in the Field; Ornithology; Herpetology; Mammalogy; Chemical Ecology; Advanced and Field Ecology; Genetics and Genomics; Human Biology and Evolution; Vertebrates; Tropical Field Ecology; Evolutionary Biology and Diversity; Ecology and the Environment; Cell and Developmental Biology.