

Jacob C. Cooper, M.A. & M.S.
Curriculum Vitae

PhD Candidate, Committee on Evolutionary Biology, University of Chicago
1025 E. 57th Street, Culver Hall 402
Chicago, IL 60637 USA

Research Affiliate, The Field Museum
1400 S. Lake Shore Drive
Chicago, IL 60605 USA

Email: jccooper [at] uchicago.edu

Personal Information

Marital Status: Married
No dependents

Education

2016-present	The University of Chicago Chicago, Illinois, USA PhD student in the Committee on Evolutionary Biology Advisor: Dr. John M. Bates, The Field Museum
2013-2016	The University of Kansas Lawrence, Kansas, USA Master of Arts in Ecology & Evolutionary Biology Advisor: Dr. Jorge Soberón
2009-2013	Louisiana State University Baton Rouge, Louisiana, USA Bachelor of Science, Biology Advisor: Dr. J. Van Remsen

Employment

2019-2020	The University of Chicago Position: Graduate Teaching Assistant for Dr. Eric Larsen (Thrice) Position: Graduate Teaching Assistant for Dr. Bruce Patterson
2016	The University of Chicago Position: Engaged in summer research with Dr. John Bates
2016	The University of Kansas Position: Curatorial Assistant for Mark B. Robbins
2013-2015	The University of Kansas Position: Graduate Research Assistant for Dr. Jorge Soberón
2010-2016	Tropical Birding Position: Part-time Tour Guide under Sam Woods & Keith Barnes

- 2013-2014 **The University of Kansas**
Position: Graduate Teaching Assistant for Dr. Julie Campbell
- 2009-2014 **The Bird Conservancy of the Rockies**
[formerly Rocky Mountain Bird Observatory]
Position: Field Technician
- 2013 Multiple part time positions; supervisors Jeff Birek, Chris White
Tulane University
Position: Field Technician for Ashley Peele

Awards

Research

- 2019 **The University of Chicago Steiner Award**
Co-Investigator: Field testing avian niche models
Amount: \$750 USD
- 2019 **The University of Chicago CEB Pritzker Lab Fund**
Principal Investigator: Relationships of Pan-African Birds
Amount: \$2,300 USD
- 2018 **The University of Chicago CEB Summer Travel Grant**
Principal Investigator: Morphology of Afromontane Birds
Amount: \$1,500 USD
- 2018 **Collège de France Science Research Travel Grant**
Principal Investigator: Phylogeography of African Birds
Amount: \$6,000 USD
- 2017 **Committee on Evolutionary Biology DNA Funds**
Principal Investigator: Phylogeography of African Birds
Amount: \$2,000 USD
- 2017 **National Geographic Research & Exploration Grant**
Principal Investigator: Birds of the Bakossi Mountains, Cameroon
Amount: \$10,000 USD
- 2017 **The Field Museum Council on Africa Grant**
Principal Investigator: Birds of the Bakossi Mountains, Cameroon
Amount: \$3,500 USD
- 2017 **The University of Chicago CEB Summer Travel Grant**
Principal Investigator: Morphology of Afromontane Birds
Amount: \$1,450 USD
- 2017 **The University of Chicago Hinds Fund Grant**
Principal Investigator: Phylogeography of *Cinnyris reichenowi*
Amount: \$1,330 USD
- 2015 **The University of Kansas Summer Support Grant**
Recipient
Location: University of Kansas, USA
Amount: \$3,000 USD

- 2014 **National Geographic Society/Waitt's Grant**
 Co-Principal Investigator
 Location: Equatorial Guinea
 Amount: \$12,000 USD
- 2014 **Panorama Grant**
 Attendance at NSF Conference on Data Digitization
 Location: University of California, Riverside
 Amount: \$875 USD

Meetings/Workshops

- 2015 **American Ornithologists' Union/Cooper Ornithological Society Meeting**
 American Ornithologists Union Student Travel Award
 Travel Grant: \$270.00
- 2014 **CABalliance Professional Development Workshop**
 Central African Biodiversity Alliance
 Location: Yaoundé, Cameroon
 Travel Grant: All expenses to attend covered
- 2014 **ADBC Tri-trophic Database Workshop**
 Panorama Grant, KU Biodiversity Institute
 Location: University of California, Riverside
 Travel Grant: see aforementioned Panorama Grant

Academic

- 2012 **Udall Scholar**, Honorable Mention
- 2009-2013 **LSU Alumni Association Top 100 Scholar**
- 2009-2013 **LSU Golden Oaks Award**

Presentations & Publications

H-index: 4, Citations: 139 (Source: GoogleScholar, 2020).

Publications

1. **Cooper, Jacob C.** Hierarchical analyses of community biogeography in the Afromontane highlands. *In prep.*
2. **Cooper, Jacob C.**, Joshua I. Engel, Charles Kahindo, Bertin Murhabale, Kizungu Byamana, Ben D. Marks & John M. Bates. The effects of a changing climate on genetic diversity in the Lacustrine Rift. *In prep.*
3. **Cooper, Jacob C.**, J. Dylan Maddox, Kellie McKague & John M. Bates. Multiple lines of evidence indicate ongoing allopatric and parapatric diversification in an Afromontane sunbird (*Cinnyris reichenowi*). *In review.*
4. Owens, Hannah L., Vivian Ribiero, Erin Saupe, Marlon E. Cobos, Peter Hosner, **Jacob C. Cooper**, Abdallah Samy, Vijay Barve, Narayani Barve, Carlos Muñoz, & A. Townsend

- Peterson. 2020. Acknowledging uncertainty in evolutionary reconstructions of ecological niches. *Ecology & Evolution*. doi:10.22541/au/157963922.23681075
5. Voight, Janet R., **Jacob C. Cooper**, & Raymond W. Lee. 2020. Stable isotopic evidence of misotrophy in xylophagoids, deep-sea wood-boring bivalves. *Frontiers in Marine Science*. **7**:50. doi: 10.3389/fmars.2020.00050
 6. **Cooper, Jacob C.** 2018. Niche theory and its relation to morphology and phenotype in geographic space: a case study in woodpeckers (Picidae). *Journal of Avian Biology* doi:10.1111/jav.01771
 7. Da Silva, Thilina, Sumudu W. Fernando, Mark B. Robbins, **Jacob C. Cooper**, Eric B. Fokam, & A. Townsend Peterson. 2018. Recognition of a new generic-level swallow taxon from Central Africa. *Journal of Avian Biology* doi:10.1111/jav.01698
 8. **Cooper, Jacob C.** & Jorge Soberón. 2018. Creating individual accessible area hypotheses improves stacked species distribution model performance. *Global Ecology & Biogeography* **27**:156-165.
 9. Saupe, Erin E., Narayani Barve, Hannah L. Owens, **Jacob C. Cooper**, Peter Hosner & A. Townsend Peterson. 2018. Reconstructing ecological niche evolution when niches are incompletely characterized. *Systematic Biology* **67**:428-438. doi:10.1093/sysbio/syx084
 10. Ingenloff, Kathryn, Christopher Hensz, Tashitso Anamza, Vijay Barve, Lindsay P. Campbell, **Jacob C. Cooper**, Ed Komp, Laura Jimenez, Karen Olson, Luis Osorio-Olvera, Hannah L. Owens, A. Townsend Peterson, Abdallah Samy, Marianna Simões & Jorge Soberón. Predictable invasion dynamics in American populations of the Eurasian Collared Dove *Streptopelia decaocto*. *Proc.R. Soc. B* **284**:20171157.
 11. Brzeski, Kristin E., Jared D. Wolfe, **Jacob C. Cooper** & Luke L. Powell. 2016. Camera sighting of Congo Clawless otter in the midst of rapid development on mainland Equatorial Guinea. *IUCN Otter Spec. Group Bull.* **33**(2).
 12. **Cooper, Jacob C.**, Oscar Johnson, Tristan J. Davis, Ryan S. Terrill, Jared D. Wolfe, Kristin E. Brzeski, Amancio M. Etingüe & Luke L. Powell. 2017. Notes on the distribution of the avifauna of Bioko Island, Equatorial Guinea, including one new country record. *Malimbus* **39**(1):1-15.
 13. **Cooper, Jacob C.** & Andrés M. Cuervo. 2017. Vocal variation and species limits in the *Sclerurus mexicanus* complex. *Wilson Journal of Ornithology* **129**(1):13-24.
 14. **Cooper, Jacob C.**, Luke L. Powell & Jared D. Wolfe. 2016. Notes on the birds of Equatorial Guinea, including nine first country records. *Bull. of the African Bird Club* **23**(2):152-163.
 15. Simões, Marianna V. P., Laura C. V. Breitzkreutz, Mabel Alvarado G., Stephen M. Baca, **Jacob C. Cooper**, Liam E. Heins, Kaylee S. Herzog & Bruce S. Lieberman. 2016. The evolving theory of evolutionary radiations. *Trends in Ecology and Evolution* **31**(1):27-34.

Invited Manuscripts

1. **Cooper, Jacob C.** 2017. Book review of *Why Birds Matter* edited by Çağan Hakkı Şekercioğlu, Daniel G. Wenny & Christopher J. Whelan. *Quarterly Review of Biology*. **92**:464-465.

Articles

1. **Cooper, Jacob C.** Depredation of Golden-crowned Kinglet (*Regulus satrapa*) by an American Bullfrog (*Lithobates catesbeianus*) in an urban park. *In review*.
2. **Cooper, Jacob C.** & Diego Barragán. 2017. Tawny-throated Leaf-tosser *Sclerurus mexicanus*, version 1.0. In *Birds of the World* (T. S. Schulenberg, Editor). Cornell Lab of Ornithology, Ithaca, NY, USA. <https://doi.org/10.2173/bow.tatlea1.01>

Oral Presentations

1. **Cooper, Jacob C.** "Diversity and distribution of Rift birds." North American Ornithological Congress and 4th Meeting of the American Ornithological Society. **August 2020.** <https://youtu.be/59o6LSk3DMk>
2. **Cooper, Jacob C.** "The importance of geography and environment for diversification: a case study in the Northern Double-collared Sunbird *Cinnyris reichenowi*". 3rd Meeting of the American Ornithological Society. **June 2019.**
3. **Cooper, Jacob C.** "The past, present, and future of Cameroonian ornithology." Evanston Bird Club invited presentation, Evanston, Illinois. **October 2017.**
4. **Cooper, Jacob C.,** Kellie McKague, and Dylan Maddox. "A Comprehensive Phylogeny of Afromontane Birds." 1st Meeting of the American Ornithological Society, East Lansing, Michigan. **August 2017.**
5. **Cooper, Jacob C.** "Testing Stacked Distribution Models: Predicting Species Richness and Community Composition in Hummingbirds." 67th Meeting of the Kansas Ornithological Society, Emporia, Kansas. **October 2015.**
6. **Cooper, Jacob C.** "Testing Stacked Distribution Models: Predicting Species Richness and Community Composition in Hummingbirds." 133rd Meeting of the American Ornithologists' Union/85th Meeting of the Cooper Ornithological Society Joint Meeting, University of Oklahoma, Norman, Oklahoma. **August 2015.**
7. **Cooper, Jacob C.** "Supplementing Specimen-based Inventories with Observations." Biodiversity Informatics Training Curriculum meeting on Biodiversity Inventories, Buea, Cameroon. **March 2015.** <https://www.youtube.com/watch?v=m2VgL7Da8-E>
8. **Cooper, Jacob C.** "Citizen Science and its Importance for Creating Effective Ecological Niche Models." 66th Meeting of the Kansas Ornithological Society, Salina, Kansas. **October 2014.**

Invited Presentations

1. Field Museum, Chicago, USA internal presentations (2020; 4 presentations).
2. University of Chicago, USA internal presentation (2020).
3. Collège de France, Paris, France (2018).
4. Evanston Bird Club, Evanston, USA (2017).

Poster Presentations

1. **Cooper, Jacob C.**, Luke L. Powell and Jared D. Wolfe. "Equatorial Guinea Bird Initiative: Ornithology and Conservation in a Rapidly Developing Central African Nation." 132nd Meeting of the American Ornithologists' Union/ 84th Meeting of the Cooper Ornithological Society/Society of Canadian Ornithologists Joint Meeting, Estes Park, Colorado. **September 2014.**

Advising

Undergraduates

1. **Sara Velásquez Restrepo, Universidad EAFIT, Medellín, Colombia.** Primary advisor for undergraduate thesis titled: *Ecological niche evolution in a group of related Andean birds (Aves: Cotingidae)*. Submitting 11/2020.
2. **Mélusine F. Velde, University of Chicago, Chicago, United States.** Adjunct project advisor for undergraduate thesis titled: *Field tests of species distribution models based on community science data*. Advised with supervision from Dr. John M. Bates. Submitting 05/2021.

Teaching Experience

- 2017-2020 Teaching assistant for Dr. Eric Larsen, University of Chicago (2x Ecology & Evolution of the desert southwest; 1x Public and Private Lives of Insects; 2x Ecology field trip assistant [also with Dr. Cathy Pfister]).
- 2020 Guest lecturer for Biogeography with Dr. Larry Heaney, University of Chicago.
- 2019 Teaching assistant for Biogeography with Dr. Bruce Patterson, University of Chicago.
- 2015 Guest lecturer, Biodiversity Informatics Training Curriculum, Buea, Cameroon.
- 2013-2015 Teaching assistant, University of Kansas (5 classes)

Field Experience

- 2019 Community surveys of birds in Costa Rica. Collaboration between University of Chicago, Field Museum and Costa Rica Bird Observatories
- 2018 Ornithological inventory in Cameroon. Organization: University of Kansas.
- 2017 Ornithological inventory in Cameroon. Organization: Field Museum.
- 2016 Ornithological inventory in Honduras. Organization: University of Kansas.
- 2016 Ornithological survey in Equatorial Guinea. Organization: Biodiversity Initiative.
- 2015 Ornithological inventory in Cameroon. Organization: University of Kansas.
- 2014 Ornithological survey in Equatorial Guinea. Organization: Biodiversity Initiative.
- 2013 Ornithological surveys in North Dakota, South Dakota & Wyoming.
Organization: Bird Conservancy of the Rockies.
- 2013 Bird ring resighting survey in Jamaica. Organization: Tulane University.
- 2012 Ornithological surveys in Idaho. Organization: Idaho Bird Observatory.
- 2012 Sensitive species surveys in Colorado. Organization: Bird Conservancy of the Rockies.
- 2009-2011 Ornithological surveys in Arizona & New Mexico. Organization: Bird Conservancy of the Rockies.

2008

Ornithological surveys in Colorado & Utah. Organization: Bird Conservancy of the Rockies.

Reviewing

The Condor: Ornithological Applications, Methods in Ecology and Evolution, Biological Journal of the Linnean Society, PeerJ, Mitochondrial DNA Part B: Resources, Journal of Natural History.

Personal Skills

Language Skills

	READING	WRITING	SPEAKING
ENGLISH	Fluent	Fluent	Fluent
SPANISH	Fluent	OK	Fluent
PORTUGUESE	OK	OK	OK
AFRIKAANS	OK	Minimal	OK
GERMAN	OK	Minimal	Minimal
FRENCH	OK	Minimal	Minimal

Technical Skills

Software: R, Bash, ArcGIS, QGIS, MAXENT, RavenPro, Microsoft Office, LibreOffice
Field Skills: Mist-netting, bird banding, photography, sound recording, guiding, map reading, GPS operating, driving (manual & automatic for both left- and right-hand drive), experience with machetes and firearms