

Benjamin M. A. Winger

Department of Ecology and Evolutionary Biology & Museum of Zoology

University of Michigan

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EDUCATION

PhD University of Chicago, Committee on Evolutionary Biology, 2015
BA Cornell University, College Scholars program, *summa cum laude*, 2007

APPOINTMENTS & EXPERIENCE

2017- Assistant Professor & Assistant Curator of Birds,
Dept. of Ecology and Evolutionary Biology & Museum of Zoology, University of Michigan

2015-2017 Postdoctoral Scholar, Michigan Society of Fellows, University of Michigan

2016- Research Associate, Ornithology Dept., Cleveland Museum of Natural History

2009-2015 Resident Graduate Student, Field Museum of Natural History

2008-2009 Lab Associate, Cornell Lab of Ornithology

2007-2009 Curatorial Assistant, Ornithology Dept., Cleveland Museum of Natural History

2007 Research Assistant, Ornithology Dept., American Museum of Natural History

2006-2007 Collections Assistant, Cornell University Museum of Vertebrates

FELLOWSHIPS, AWARDS & GRANTS

FELLOWSHIPS

2015-2018 Postdoctoral Fellowship, Michigan Society of Fellows

2015-2017 Donnelley Postdoctoral Fellowship, Yale University (declined for Michigan Fellowship)

2015-2017 Cornell Lab of Ornithology Postdoctoral Fellowship (declined for Michigan Fellowship)

2013-2014 Lester Armour Graduate Student Fellowship, Field Museum of Natural History

2009-2012 Graduate Research Fellowship, National Science Foundation

2003-2007 Rawlings Presidential Research Scholarship, Cornell University

2003-2007 College Scholar, Cornell University

HONORS & AWARDS

2019 [AOS Katma Award](#) (for Winger et al. 2018, *Biological Reviews*).

2019 Teaching Excellence Award, UM Program in Biology (for Ornithology, Fall 2018)

2017 Elective Member, American Ornithological Society

2016 Best Dissertation Award, University of Chicago Biological Sciences Division

2016 - Honorary Visiting Professor ("Docente Visitante"), Universidad Nacional Toribio Rodríguez de Mendoza de Amazonas, Chachapoyas, Peru

2014 Ernst Mayr Award, Society of Systematic Biologists (for presentation at Evolution Meetings)

2014 American Ornithologists' Union Council Award (for presentation at AOU meeting)

2007 Honors Thesis Proposal Award, Cornell University College Scholars

RESEARCH GRANTS

2018 MCubed Grant, University of Michigan ("Migratory birds and the magnetosphere") \$60,000

2014 Illumina MiSeq grant, Pritzker Lab, Field Museum of Natural History \$2,850

2013 National Science Foundation Doctoral Dissertation Improvement Grant \$20,061

2013 American Museum of Natural History Frank M. Chapman Memorial Grant \$1,960

2012	University of Chicago/Field Museum Pritzker Lab student award	\$2,000
2012	University of Chicago Donald Steiner Travel Award	\$2,000
2011	American Ornithologists' Union Alexander Wetmore Award	\$2,500
2011	American Museum of Natural History Frank M. Chapman Memorial Grant	\$2,000
2011	Cooper Ornithological Society Joseph Grinnell Award	\$1,000
2010	University of Chicago Hinds Fund Award	\$1,800
2010	Society of Systematic Biologists Graduate Research Award	\$1,700
2008	Cornell Lab of Ornithology Student Research Grant	\$19,500
2008	National Geographic Society Young Explorers Grant	\$5,000
2008	Explorers Club Youth Activity Fund	\$1,500
2008	Jordani Zoology Club Student Research Grant	\$1,600
2007	Cornell Lab of Ornithology Student Research Grant	\$4,500
2005	Cornell University Morley Student Research Grant	\$1,000

TRAVEL AWARDS

2014	Student Conference Travel Award, American Ornithologists' Union
2014 (2x)	Conference Travel Support, University of Chicago Committee on Evolutionary Biology
2012	Conference Travel Support, University of Chicago Committee on Evolutionary Biology

PUBLICATIONS

Weeks, BC, DE Willard, AA Ellis, ML Witynski, M Hennen & **BM Winger** *. Body size reductions driven by climate change induce compensatory adaptation in migratory birds. *In Review (PNAS)*.

*Corresponding Author

Winger, BM, BC Weeks, A Farnsworth, AW Jones, M Hennen & DE Willard. Nocturnal flight-calling behaviour predicts vulnerability to artificial light in migratory birds. *Proceedings of the Royal Society B* In Press. doi: 10.1098/rspb.2019.0364

Winger, BM, GG Auteri, TM Pegan & BC Weeks. 2018. A long winter for the Red Queen: Rethinking the evolution of seasonal migration. *Biological Reviews*. In Press. doi:10.1111/brv.12476

winner of AOS Katma Award

Chesser, RT, KJ Burns, C Cicero, JL Dunn, AW Kratter, IJ Lovette, PC Rasmussen, JV Remsen, DF Stotz, **BM Winger** & K Winker. 2018. Fifty-ninth supplement to the American Ornithological Society's Check-list of North American Birds. *The Auk: Ornithological Advances* 135:798-813. doi:10.1642/auk-18-62.1

Winger, BM. 2017. Consequences of divergence and introgression for speciation in Andean cloud forest birds. *Evolution* 71:1815-1831. doi:10.1111/evo.13251

Toews, DP et al. (19 co-authors). 2016. Genomic approaches to understanding population divergence and speciation in birds. *The Auk: Ornithological Advances* 133:13-30. doi:10.1642/auk-15-51.1

Winger, BM, PA Hosner, GA Bravo, AM Cuervo, LE Cueto & JM Bates. 2015. Inferring speciation history in the Andes with reduced-representation sequence data: an example in the bay-backed antpittas (Aves; Gallariidae). *Molecular Ecology* 24: 6256-6277. doi: 10.1111/mec.13477

Winger, BM & JM Bates. 2015. The tempo of trait-divergence in geographic isolation: Avian speciation across the Marañón Valley of Peru. *Evolution* 69:772-787. doi:10.1111/evo.12607

Winger, BM, FK Barker & RH Ree. 2014. Temperate origins of long-distance seasonal migration in New World songbirds. *Proceedings of the National Academy of Sciences* 111(33):12115-12120. doi:10.1073/pnas.1405000111

Harvey, MG, GF Seeholzer, D Cáceres, BM Winger, G Tello, F Hernández, MA Aponte, CV Duffie, S Figueroa, RS Terrill, CE Brown, L Alza, G Bravo, M Combe, O Custodio, A Quiñones, A Urbay, WA Garcia, AS Savit, FW Pezo, WM Mauck III, and O Barden. 2014. Avian biogeography of an Amazonian headwater: the upper Ucayali River, Peru. *Wilson Journal of Ornithology* 126:179-191. doi:10.1676/13-135.1

Seeholzer, GF, BM Winger, MG Harvey, D Cáceres & JD Weckstein. 2012. A new species of barbet (Aves: Capitonidae) from the Cerros del Sira of Peru. *The Auk* 129:551-559. doi:10.1525/auk.2012.11250

Winger, BM, IJ Lovette & DW Winkler. 2012. Ancestry and evolution of seasonal migration in Parulidae. *Proceedings of the Royal Society B* 279:610-618. doi:10.1098/rspb.2011.1045

Harvey, MG, BM Winger, GF Seeholzer & D Cáceres. 2011. Avifauna of the Gran Pajonal and southern Cerros del Sira, Peru. *Wilson Journal of Ornithology* 123:289-316. doi:10.1676/10-066.1

Greeney, H, ME Juiña, JB Harris, MT Wickens, BM Winger, RA Gelis, ET Miller, & A Solano-Ugalde. 2010. Observations on the breeding biology of birds in south-east Ecuador. *Bulletin of the British Ornithologists Club* 130:61-68.

RESEARCH PRESENTATIONS

INVITED TALKS & SEMINARS

- 2019 (symposium talk) Midwest Fish & Wildlife Conference, Cleveland, OH
- 2018 (seminar) Department of Biology, University of Windsor
- 2018 (seminar) Integrative Research Center, Field Museum of Natural History
- 2018 (seminar) Biology Dept., Eastern Michigan University
- 2017 (seminar) Kellogg Biological Station, Michigan State University
- 2017 (seminar) Michigan Society of Fellows, University of Michigan
- 2016 (plenary lecture) 10th Peruvian Ornithology Congress, Chachapoyas, Peru
- 2015 (seminar) Dept. Ecology & Evolutionary Biology, University of Michigan
- 2015 (Christer Hemborg Lecture) Uppsala University, Uppsala, Sweden (Invited lecture for an early career researcher in evolutionary biology)
- 2014 (symposium talk) "Genomic approaches to understanding avian speciation," American Ornithologists' Union meeting, Estes Park, CO
- 2014 (symposium talk) Society of Systematic Biologists Ernst Mayr Award Competition, Evolution Meetings, Raleigh, NC
- 2014 (symposium talk) "Location, location, location: New advances in the science of biogeography," 12th Smithsonian Botanical Symposium, National Museum of Natural History, Washington, D. C.
- 2013 (seminar) Cornell University Graduate Seminar in Ornithology, Ithaca, NY
- 2013 (symposium talk) "Assembly of the North American Avifauna," American Ornithologists' Union meeting, Chicago, IL
- 2007 (symposium talk) "Assembling and using the nine-primaried oscine Tree of Life," American Ornithologists' Union meeting, Laramie, WY.

CONTRIBUTED TALKS & POSTERS

- 2018 (talk) International Ornithological Society meeting, Vancouver, BC
 2018 (talk) American Ornithological Society meeting, Tucson, AZ
 2017 (talk) American Ornithological Society meeting, East Lansing, MI
 2016 (talk) North American Ornithological Conference, Washington, DC
 2016 (talk) American Society of Naturalists meeting, Asilomar, CA
 2013 (talk) Evolution meetings, Snowbird, UT
 2013 (poster) University of Michigan Early Career Scientists Symposium, Ann Arbor, MI
 2012 (talk) North American Ornithological Conference, Vancouver, BC
 2007 (poster) Cornell Undergraduate Research Board Annual Undergraduate Research Forum
 2007 (poster) Cornell Presidential Research Scholars Senior Exposition
 2006 (poster) North American Ornithological Conference, Veracruz, Mexico

TEACHING EXPERIENCE**INSTRUCTOR**

- 2018 Ornithology (EEB433), University of Michigan
 2018 Biology of Birds (EEB330), University of Michigan Biological Station (field-based course)
 2016 Ornithology (EEB433), University of Michigan
 2013 Phylogenetics course, National Science Foundation Research Experience for Undergraduates summer program, Field Museum of Natural History
 2012 R programming workshop, Field Museum of Natural History Department of Zoology

GUEST LECTURER

- 2018 Unlocking the Museums (BIO 201), University of Michigan
 2017 Animal Diversity (BIO 288), University of Michigan
 2016 iTropBio tropical biology course, University of Michigan
 2016 Landscape History and Diversification course, University of Michigan
 2012 Ornithology, School of the Art Institute of Chicago (Instructor: Dr. Nicholas Block)

TEACHING ASSISTANT

- 2015 Biogeography, University of Chicago (Instructor: Dr. Bruce Patterson)
 2013 Biogeography, University of Chicago (Instructor: Dr. Bruce Patterson)
 2011 Environmental Ecology, University of Chicago (Instructor: Dr. Trevor Price)
 2006 Ornithology, Cornell University (Instructor: Dr. David Winkler)

TEACHER TRAINING

- 2015 & 2017 LSA Teaching Academy, College of Literature, Science, and the Arts, University of Michigan

MENTORSHIP**POSTDOCS**

- 2017- Dr. Brian Weeks

PhD STUDENTS

- 2018- Eric Gulson-Castillo
 2017- Teresa Pegan
 2017- Susanna Campbell (co-advised)

UNDERGRADUATES

- 2018- Caleb Kaczmarek (University of Michigan EEB undergraduate researcher)
 2017-2018 Melanie Florkowski (University of Michigan EEB undergraduate researcher)
 2017-2018 Seana Florida (University of Michigan EEB undergraduate researcher)
 2016-2018 Jessica Yan (University of Michigan UROP student)
 2016-2017 Bella Rios (University of Michigan UROP student)
 2016-2017 Aspen Ellis (University of Michigan PitE undergraduate researcher)
 2014 Max Witynski (undergraduate student / REU Field Museum summer intern)
 2013 Alice Henry (undergraduate student / Field Museum summer intern)

HIGH SCHOOL STUDENTS

- 2012 Griffin Harris (Field Museum summer intern)

PROFESSIONAL SERVICE
DEPARTMENTAL & SOCIETY SERVICE

- 2017-2018 North American Classification Committee, American Ornithological Society
 2017-2018 Early Career Professionals Committee, American Ornithological Society
 2017-2019 EEB Seminar Committee, University of Michigan
 2017 Symposium co-organizer, "Trait divergence and speciation: Tempo, mode, and mechanism," American Ornithological Society meeting, East Lansing, MI.
 2016 Organizing committee, 12th University of Michigan Early Career Scientists Symposium, "Frontiers in Community Assembly"
 2013 Symposium co-organizer, "Assembly of the North American Avifauna," American Ornithologists Union meeting, Chicago, IL
 2013 Local Committee, American Ornithologists Union meeting, Chicago, IL
 2011 Organizer, Sewall Wright Lecture, University of Chicago

JOURNAL REFEREE

<i>American Naturalist</i>	<i>Ibis</i>	<i>PLOS ONE</i>
<i>BMC Evolutionary Biology</i>	<i>Journal of Avian Biology</i>	<i>Proc Roy Soc B Biol Sci</i>
<i>Condor</i>	<i>Journal of Biogeography</i>	<i>Science Advances</i>
<i>Biol Journal Linnean Society</i>	<i>Molecular Ecology</i>	<i>Systematic Biology</i>
<i>Ecology Letters</i>	<i>Mol Phylogenetics & Evolution</i>	<i>Wilson Journal of Ornithology</i>
<i>Evolution</i>	<i>PeerJ</i>	<i>Zoologica Scripta</i>

PUBLIC OUTREACH AND EDUCATION
INVITED LECTURES

- 2019 Chicago Bird Collision Monitors, Chicago, IL
 2017 Washtenaw Audubon Society, Ann Arbor, MI
 2017 Michigan Ecology and Evolutionary Biology Society (student group), University of Michigan
 2016 Student Birding Club, University of Michigan
 2012 DuPage Birding Club, DuPage, IL (on ornithological exploration in Peru)
 2009, 2012 Board of Trustees meetings, Cornell Lab of Ornithology (on expedition to Peru)
 2008 College Club of Cleveland, Cleveland, OH (on ornithological exploration in the Neotropics)

2003 Kachemak Bay Shorebird Festival, Homer, AK (on shorebird biology)

RESEARCH FEATURES & PROFILES

2017 Turbek, S. 2017. Digest: For ecologically similar Andean birds, gene flow and plumage uniformity go hand in hand. *Evolution* 71:1911-1912. doi10.1111/evo.13265

2017 EEB web feature, University of Michigan, "New speciation research in Andean cloud forest birds shines light on age-old questions"

2017 *Living Bird* magazine Spring 2017 feature, "The Evolution of Bird Migration"

2016 Textbook box feature, Cornell Lab of Ornithology Handbook of Bird Biology 3rd Edition

2015 Annual Report to Donors, Field Museum of Natural History (featured for migration research)

2014 Featured recordist, Macaulay Library of Natural Sounds Facebook page

2013 Radio interview, Groks Science Radio Show

2012 Annual Report to Donors, Field Museum of Natural History (for discovery of new species)

2012 Annual Report to Donors, Cornell Lab of Ornithology (for discovery of new species)

2012 Pritzker Laboratory for Molecular Systematics and Evolution Facebook page

2011-2015 Research featured in public exhibit at DNA Discovery Center, Field Museum

2010 Featured scientist, Wingtrip.org natural history blog

2009 Annual Report to Donors, Cornell Lab of Ornithology (featured for expedition to Peru)

2002 Radio interview on ornithology, Jazz Tracks, WCPN Cleveland

SELECT POPULAR ARTICLES

Winger, B. 2012. New species and new birders: A reflection on ABA youth programs. *Winging It* 24(5)

Winger, B. 2003. Molt strategies in adult dowitchers: Criteria for field identification in Ohio. *The Ohio Cardinal* 26(3):125-136

Winger, B. 2001. Molt in shorebirds. *A Bird's-Eye View* 9(5):1-3

CONSULTANCIES

2014 David Attenborough's *Conquest of the Skies 3D* television series

2007 BBC's *Life* television series (consultant and field assistant)

MEDIA COVERAGE

Aububon Magazine Blog	Groks Science Radio Show	Science Daily
Birding magazine	LiveScience	Science Dialogues
Birdwatch UK	Living Bird	Sci News
Cornell Chronicle	Mongabay	UChicago ScienceLife
Daily Mail	MSNBC	The Why Files
Discovery News	National Geographic	Yale e360
EarthWeek	New Scientist	Yahoo! News
The Guardian	Our Amazing Planet	

SELECT FIELD EXPERIENCE

2017 Expedition Co-Leader, University of Michigan Museum of Zoology and Cleveland Museum of Natural History joint expedition to Minnesota & Upper Peninsula, Michigan

2016 Expedition Co-Leader, University of Michigan Museum of Zoology and Cleveland Museum of Natural History joint expedition to Alberta, Canada

2008-2014 Expedition Co-Leader, Cleveland Museum of Natural History expeditions (U.S.)

- 2013 Avian audio recordist, dissertation research (Peru and Ecuador)
2011 Expedition Leader, Field Museum expedition (Peru)
2010 Expedition Co-Leader, Field Museum expedition (Peru)
2004-2009 Field Assistant, PRBO Conservation Science Eastern Sierra Program (California)
2008 Expedition Co-Leader, Cornell University Museum of Vertebrates expedition (Peru)
2007 Field Assistant, Jocotoco Conservation Foundation (Ecuador)
2002-2007 Field Assistant, Cornell University Golondrinas de las Americas (California, New York and Argentina)
2003 Field Assistant, Cleveland Museum of Natural History Natural Areas Program (Ohio)
1997- Extensive birding and natural history travel throughout North America and the Neotropics
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ADVISORS

PhD Committee:

- Dr. John Bates (Advisor/Chair), Field Museum of Natural History
Dr. Shannon Hackett, Field Museum of Natural History
Dr. Marcus Kronforst, University of Chicago
Dr. Trevor Price, University of Chicago
Dr. Richard Ree, Field Museum of Natural History

Undergraduate Advisors/Mentors:

- Dr. Irby Lovette, Cornell University
Dr. David Winkler, Cornell University
Dr. Kimberly Bostwick, Cornell University