

Benjamin M. A. Winger

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University of Michigan

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EDUCATION

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

APPOINTMENTS & EXPERIENCE

2017-present Assistant Professor (tenure track), Dept. of Ecology and Evolutionary Biology
& Assistant Curator of Birds, Museum of Zoology,
University of Michigan

2015-2017 Postdoctoral Fellow & Assistant Professor (non-tenure track),
Michigan Society of Fellows, University of Michigan

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

2008-2009 Lab Associate, Cornell Lab of Ornithology

2007-2009 Curatorial Assistant, Cleveland Museum of Natural History

2007 Research Assistant, 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

HONORS & AWARDS

2019 Katma Award, American Ornithological Society

2019 Teaching Excellence Award, EEB & Program in Biology, University of Michigan

2017 Elective Member, American Ornithological Society

2016 Best Dissertation Award, University of Chicago Biological Sciences Division

2016 Honorary Visiting Professor, Universidad Nacional Toribio Rodríguez de Mendoza, Peru

2015 Christer Hemborg Lecture, Uppsala University

2014 Ernst Mayr Award, Society of Systematic Biologists

2014 American Ornithologists' Union Council Award

2007 Honors Thesis Proposal Award, Cornell University College Scholars Program

RESEARCH GRANTS

2020 (pending) NSF DEB: "Evolutionary Consequences of Migration and Dispersal in Boreal Birds"

2019 UM Institute for Global Change Biology Action Group (co-PI)

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

Pegan, TM & **BM Winger**. 2020. The influence of seasonal migration on range size in temperate North American passerines. *In Review*.

Weeks, BC, DE Willard, M Zimova, AA Ellis, ML Witynski, M Hennen & **BM Winger**. 2019. Shared morphological consequences of global warming in North American migratory birds. *Ecology Letters*. *In Press*.

Winger, BM, BC Weeks, A Farnsworth, AW Jones, M Hennen & DE Willard. 2019. Nocturnal flight-calling behaviour predicts vulnerability to artificial light in migratory birds. *Proceedings of the Royal Society B* 286:20190364.

Winger, BM, GG Auteri, TM Pegan & BC Weeks. 2019. A long winter for the Red Queen: Rethinking the evolution of seasonal migration. *Biological Reviews* 94:737-753.

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.

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

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.

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; Grallariidae). *Molecular Ecology* 24: 6256-6277.

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

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.

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.

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

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

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

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 SEMINARS

- 2019 Department of Biological Sciences, University of South Carolina
- 2018 Department of Biology, University of Windsor
- 2018 Integrative Research Center, Field Museum of Natural History
- 2018 Biology Dept., Eastern Michigan University
- 2017 Kellogg Biological Station, Michigan State University
- 2017 Michigan Society of Fellows, University of Michigan
- 2016 Plenary lecture, 10th Peruvian Ornithology Congress, Chachapoyas, Peru
- 2015 Dept. Ecology & Evolutionary Biology, University of Michigan
- 2015 Christer Hemborg Lecture, Uppsala University, Uppsala, Sweden
- 2013 Cornell University Graduate Seminar in Ornithology, Ithaca, NY

INVITED SYMPOSIUM TALKS

- 2019 Symposium: "Migratory Wildlife Collisions with Manmade Structures: Monitoring, Prevention, and Patterns from Collision Data." Midwest Fish & Wildlife Conference, Cleveland, OH
- 2017 Symposium: "Trait divergence and speciation: Tempo, mode, and mechanism." American Ornithological Society meeting, East Lansing, MI
- 2014 Symposium: "Genomic approaches to understanding avian speciation." American Ornithologists' Union meeting, Estes Park, CO

- 2014 *SSB Ernst Mayr Award Competition*, Evolution Meetings, Raleigh, NC
- 2014 Symposium: "Location, location, location: New advances in the science of biogeography." 12th Smithsonian Botanical Symposium, National Museum of Natural History, Washington, D. C.
- 2013 Symposium: "Assembly of the North American Avifauna." American Ornithologists' Union meeting, Chicago, IL
- 2007 Symposium: "Assembling and using the nine-primaried oscine Tree of Life." American Ornithologists' Union meeting, Laramie, WY

CONTRIBUTED TALKS & POSTERS (first-authored only)

- 2019 (talk) American Ornithological Society meeting, Anchorage, AK
- 2018 (talk) International Ornithological Society meeting, Vancouver, BC
- 2018 (talk) American Ornithological Society meeting, Tucson, AZ
- 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

- 2020 (Upcoming in Winter 2020): Evolution (EEB390), University of Michigan
- 2019 Ornithology (EEB433), University of Michigan
- 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

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)

GRADUATE 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)

TEACHER TRAINING

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

MENTORSHIP
POSTDOCS

- 2019- Dr. Marketa Zimova (UM Institute for Global Change Biology, co-mentored)
 2019- Dr. Jacob Berv (Michigan Life Sciences Fellow, co-mentored)
 2017-2019 Dr. Brian Weeks (now Assistant Professor at University of Michigan SEAS)

PhD ADVISEES

- 2019- Kristen Wacker
 2018- Eric Gulson-Castillo
 2017- Teresa Pegan
 2017- Susanna Campbell (co-advised)

PhD COMMITTEES

- 2018- John David Curlis (Advisor Alison Davis Rabosky)
 2018- Rachel Wadleigh (Advisor Lacey Knowles)
 2017- Giorgia Auteri (Advisor Lacey Knowles)

UNDERGRADUATES

- 2018- Vera Ting (University of Michigan UROP student)
 2018-2019 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 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
UNIVERSITY & ACADEMIC SERVICE

- 2019-2020 Graduate Admissions Committee, University of Michigan
 2017-2019 NextProf Mentor, University Michigan
 2019- Reviewer, University of Michigan Life Science Fellows
 2017-2019 EEB Seminar Committee, University of Michigan
 2018 Search Committee Chair, Bird Collections Manager, UMMZ
 2018 Search Committee, Registrar, UMMZ
 2017-2018 North American Classification Committee, American Ornithological Society
 2017-2018 Early Career Professionals Committee, American Ornithological Society
 2015-2017 Reviewer, Michigan Society of Fellows
 2016 Organizing committee, 12th University of Michigan Early Career Scientists Symposium, "Frontiers in Community Assembly"
 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>The Auk</i>	<i>Journal of Avian Biology</i>	<i>Proc Roy Soc B Biol Sci</i>
<i>BMC Evolutionary Biology</i>	<i>Journal of Biogeography</i>	<i>Science Advances</i>
<i>The Condor</i>	<i>Molecular Ecology</i>	<i>Systematic Biology</i>
<i>Biol Journal Linnean Society</i>	<i>Mol Phylogenetics & Evolution</i>	<i>Wilson Journal of Ornithology</i>
<i>Ecology Letters</i>	<i>Nature Communications</i>	<i>Zoologica Scripta</i>
<i>Evolution</i>	<i>PeerJ</i>	

PUBLIC OUTREACH AND EDUCATION
INVITED PRESENTATIONS

2019	Science Café, Ann Arbor, MI
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
2009, 2012	Board of Trustees meetings, Cornell Lab of Ornithology
2008	College Club of Cleveland, Cleveland, OH
2003	Kachemak Bay Shorebird Festival, Homer, AK

RESEARCH FEATURES & PROFILES

2017	Turbek, S. 2017. Digest: For ecologically similar Andean birds, gene flow and plumage uniformity go hand in hand. <i>Evolution</i> 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	<i>Living Bird</i> magazine Spring 2017 feature, "The Evolution of Bird Migration"
2016	Textbook box feature, Cornell Lab of Ornithology Handbook of Bird Biology 3 rd Edition
2015	Annual Report to Donors, Field Museum of Natural History
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
2012	Annual Report to Donors, Cornell Lab of Ornithology
2012	Pritzker Laboratory for Molecular Systematics and Evolution Facebook page
2011-2015	Research featured in public exhibit at DNA Discovery Center, Field Museum
2009	Annual Report to Donors, Cornell Lab of Ornithology
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. <i>Winging It</i> 24(5)
Winger, B. 2003.	Molt strategies in adult dowitchers: Criteria for field identification in Ohio. <i>The Ohio Cardinal</i> 26(3):125-136
Winger, B. 2001.	Molt in shorebirds. <i>A Bird's-Eye View</i> 9(5):1-3

SCIENTIFIC CONSULTANCIES

2019	Silverback Films (for film featuring the evolution of bird migration)
2014	David Attenborough's <i>Conquest of the Skies 3D</i> television series
2007	BBC's <i>Life</i> television series (consultant and field assistant on bird migration)

SELECT MEDIA COVERAGE
GENERAL INTERVIEWS

Radiolab | National Wildlife Magazine | National Geographic Magazine | Groks Science Radio Show

FOR Weeks et al. 2019, *Ecology Letters*

#1 all-time Altmetric Attention Score for *Ecology Letters* (as of December, 2019)

Washington Post | Wall Street Journal | NBC News | CNN | BBC News | Science Magazine | National Audubon Society

FOR Winger et al. 2019, *Proceedings B*

Science Magazine | PBS Nova | Chicago Tribune | National Audubon Society | The Guardian | The Conversation | NSF News | The Environment Report, Michigan Radio

FOR Winger et al. 2014, *PNAS*

Living Bird | National Geographic: Not Exactly Rocket Science | New Scientist | UChicago ScienceLife | The Why Files | Earthweek

FOR Seeholzer et al. 2008, *The Auk*

Living Bird | The Guardian | MSBNC | Daily Mail | Yahoo! News | Science Daily | Mongabay | National Audubon Society | Discovery News | Yale e360 | Live Science | Cornell Chronicle | American Birding Association

SELECT FIELD EXPERIENCE

2019	Expedition Leader, University of Michigan Museum of Zoology and Cleveland Museum of Natural History joint expedition to Manitoba, Canada
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 Lab of Ornithology/CUMV expedition (Peru)
2007	Field Assistant, Jocotoco Conservation Foundation (Ecuador)
2002-2007	Field Assistant, Cornell University Golondrinas de las Americas (California & New York)
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