

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

2015–2017 Postdoctoral Fellow, Michigan Society of Fellows, University of Michigan
2016– Research Associate, Cleveland Museum of Natural History
2009–2015 Resident Graduate Student, Field Museum of Natural History
2008–2009 Lab Associate, Cornell Lab of Ornithology
2009 Visiting Researcher, Smithsonian National Museum of Natural History
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)
2015–2017 Cornell Lab of Ornithology Postdoctoral Fellowship (declined)
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

2022 Fellow, American Ornithological Society
2022 Brina C. Kessel Award, American Ornithological Society
2022 George Mercer Award, Ecological Society of America
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
2014 Ernst Mayr Award, Society of Systematic Biologists
2014 American Ornithologists' Union Council Award (for student presentation at AOU meeting)
2007 Honors Thesis Proposal Award, Cornell University College Scholars Program

RESEARCH GRANTS

2022–2025 NSF DEB: How does seasonal migration influence genetic migration? \$770,868
Testing the evolutionary consequences of a widespread life history adaptation

	in a species assemblage of boreal birds (sole PI).	
2019–2021	UM Institute for Global Change Biology Action Group (co-PI)	\$162,500
2018–2022	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	NSF 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	Cornell 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

PUBLICATIONS

‡senior/co-senior author

Herman, RW, **BM Winger**, DL Dittman & MG Harvey. Fine-scale population structure and barriers to gene flow in a widespread seabird (*Ardenna pacifica*). *Biological Journal of the Linnaean Society*. *In Press*.

Winger, BM & TM Pegan. 2021. Migration distance is a fundamental axis of the slow-fast continuum of life history in boreal birds. *Ornithology* 138:1-18.

*winner of AOS Brina C. Kessel Award *

selected as Editor’s Choice

Zimova, M, DE Willard, **BM Winger**‡ & BC Weeks‡. 2021. Widespread shifts in bird migration phenology are decoupled from parallel shifts in morphology. *Journal of Animal Ecology*. 90:2348–2361.

Van Doren, BM, DE Willard, M Hennen, KG Horton, EF Stuber, D Sheldon, AH Sivakumar, J Wang, A Farnsworth‡ & **BM Winger**‡. 2021. Drivers of fatal bird collisions in an urban center. *Proceedings of the National Academy of Sciences* 118: e2101666118.

Pegan, TM & **BM Winger**‡. 2020. The influence of seasonal migration on range size in temperate North American passerines. *Ecography* 43:1191-1202

Weeks, BC, S Naeem, **BM Winger**, JL Cracraft. 2020. The relationship between morphology and behavior in mixed-species flocks of island birds. *Ecology and Evolution* 10:10593-10606.

Starkloff, NC, JJ Kirchman, AW Jones, **BM Winger**, Y-H Huang, PC Pulgarín-R, WC Turner. 2020. Drivers of community turnover differ between avian haemoparasite genera along a North American latitudinal gradient. *Ecology and Evolution* 10:5402-5415.

Weeks, BC, DE Willard, M Zimova, AA Ellis, ML Witynski, M Hennen & **BM Winger**[†]. 2020. Shared morphological consequences of global warming in North American migratory birds. *Ecology Letters* 23:316-325

winner of ESA George Mercer Award

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.

Covered in Evolution "Digests"

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.

PRESENTATIONS & LECTURES

LECTURESHIPS AND PLENARIES

- 2022 Hann Endowed Lecture in Ornithology, University of Michigan Biological Station
- 2016 Plenary lecture, 10th Peruvian Ornithology Congress, Chachapoyas, Peru
- 2015 Christer Hemborg Lecture, Uppsala University, Uppsala, Sweden

INVITED RESEARCH SEMINARS

- 2021 Georgetown University, Biology of Animal Migration course
- 2020 Ornithology Department, University of New Mexico Museum of Southwestern Biology
- 2020 Department of Zoology & Physiology, University of Wyoming
- 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
- 2015 Dept. Ecology & Evolutionary Biology, University of Michigan
- 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

OTHER INVITED LECTURES

- 2022 Society Les Voyageurs, Ann Arbor, MI
- 2017, 2022 UM Ecology and Evolutionary Biology Society (undergrad student group; MEEBS)
- 2021 Kirtland Bird Club, Cleveland, OH
- 2017, 2020 Washtenaw Audubon Society, Ann Arbor, MI
- 2019 Science Café, Ann Arbor, MI
- 2019 Chicago Bird Collision Monitors, Chicago, IL
- 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

CONTRIBUTED CONFERENCE TALKS & POSTERS (first/presenting author)

2022 (talk) Evolution meetings, Cleveland, OH
 2021 (talk) American Ornithological Society meeting (virtual)
 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

CONTRIBUTED CONFERENCE TALKS & POSTERS (senior-authored abstracts presented by mentees)

2022 Pegan et al., American Ornithological Society meeting, Puerto Rico
 2022 Wacker et al., American Ornithological Society meeting, Puerto Rico
 2022 Gulson-Castillo et al., American Ornithological Society meeting, Puerto Rico
 2022 Ting et al., American Ornithological Society meeting, Puerto Rico
 2022 Campbell et al., Evolution meetings, Cleveland, OH
 2022 Kimmitt et al., Evolution meetings, Cleveland, OH
 2021 Pegan et al., Evolution meetings (virtual)
 2021 Pegan et al., American Ornithological Society meeting (virtual)
 2021 Gulson-Castillo et al., American Ornithological Society meeting (virtual)
 2020 Gulson-Castillo et al., North American Ornithological Congress (virtual)
 2020 Ting et al., North American Ornithological Conference (virtual)
 2019 Pegan et al., American Ornithological Society meeting, Anchorage, AK
 2019 Weeks et al., American Ornithological Society meeting, Anchorage, AK

TEACHING

FREQUENTLY TAUGHT COURSES

Ornithology (EEB433), University of Michigan: 2016, 2018, 2019, 2022

Evolution (EEB390), University of Michigan: 2020, 2021

OTHER COURSES

2022 The Biology of Animal Migration (BIO121), University of Michigan
 2018 Biology of Birds (EEB330), University of Michigan Biological Station (field-based course)
 2013 Phylogenetics course, NSF-REU, Field Museum of Natural History

GUEST LECTURER

2020 Environmental Journalism (ENVIRON 320), University of Michigan
 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, University of Michigan
 2012 Ornithology, School of the Art Institute of Chicago

TEACHING ASSISTANT

2015 Biogeography, University of Chicago (graduate TA)
 2013 Biogeography, University of Chicago (graduate TA)
 2011 Environmental Ecology, University of Chicago (graduate TA)
 2006 Ornithology, Cornell University (undergraduate TA)

TEACHER TRAINING

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

EDITORIAL & REFEREE WORK
EDITORIAL POSITIONS

2020– Associate Editor, *Ornithology* (formerly *The Auk*)

JOURNAL AD-HOC REVIEWER

<i>American Naturalist</i>	<i>Global Ecology & Biogeography</i>	<i>PLOS ONE</i>
<i>The Auk</i> (now <i>Ornithology</i>)	<i>Ibis</i>	<i>Proc Roy Soc B Biol Sci</i>
<i>Biol Journal Linnean Society</i>	<i>Journal of Avian Biology</i>	<i>PNAS</i>
<i>BMC Evolutionary Biology</i>	<i>Journal of Biogeography</i>	<i>Science</i>
<i>The Condor</i>	<i>Journal of Heredity</i>	<i>Science Advances</i>
<i>Ecography</i>	<i>Molecular Ecology</i>	<i>Systematic Biology</i>
<i>Ecology</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>Ornithology</i>	
<i>Functional Ecology</i>	<i>PeerJ</i>	

RESEARCH GRANT AD-HOC REVIEWER

2020 UK National Environmental Research Council
 2020 US National Science Foundation, DEB, Population and Community Ecology

MISCELLANEOUS REVIEWER WORK

2021 Animal Behavior textbook revision (Rubenstein & Alcock; Oxford University Press)
 2020 University of Michigan Press, Digital Media

PROFESSIONAL SERVICE
ACADEMIC SOCIETY SERVICE

2020– Collections Committee, American Ornithological Society
 2017–2019 Early Career Professionals Committee, American Ornithological Society
 2017–2018 North American Classification Committee, American Ornithological Society
 2013 Local Committee, American Ornithologists Union meeting, Chicago, IL

UNIVERSITY/DEPARTMENTAL SERVICE

2022– Research Advisory Committee, University of Michigan Biological Station
 2022 UM EEB Executive Committee
 2022 UM EEB Nominating Committee
 2021– UM NextProf committee
 2021–2022 UM Pathogens Biorepository Science Advisory committee
 2021–2022 UM Pathogens Biorepository infrastructure committee

- 2019–2021 Graduate Admissions Committee, University of Michigan
 2017–2020 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
 2015–2017 Reviewer, Michigan Society of Fellows
 2016 Organizing committee, 12th University of Michigan Early Career Scientists Symposium, “Frontiers in Community Assembly”
 2011 Organizer, Sewall Wright Lecture, University of Chicago

MENTORSHIP

POSTDOCS

- 2021– Dr. Abby Kimmitt
 2019– Dr. Jacob Berv (Michigan Life Sciences Fellow, co-mentored)
 2019–2021 Dr. Marketa Zimova (now Assistant Professor at Appalachian State University)
 2017–2019 Dr. Brian Weeks (now Assistant Professor at University of Michigan SEAS)

PhD ADVISEES

- 2021– Matt Hack
 2019– Kristen Wacker
 2018– Eric Gulson-Castillo
 2017– Teresa Pegan
 2017– Susanna Campbell (co-advised)

PhD COMMITTEES (University of Michigan)

- 2018– John David Curlis (Advisor Alison Davis Rabosky)
 2018– Rachel Wadleigh (Advisor Lacey Knowles)
 2017–2022 Giorgia Auteri (Advisor Lacey Knowles)

PhD EXTERNAL EXAMINER/COMMITTEE MEMBER

- 2021– Elkin Tenorio, City University of New York
 2021 Zach Gayk, University of Windsor
 2017 Joshua Peñalba, Australian National University

MS COMMITTEES (University of Michigan)

- 2021–2022 Chloe Weise
 2020–2021 Aurelia Allen

UNDERGRADUATE MENTEES

- 2021– Ethan Van Valkenberg
 2018– Vera Ting
 2020–2021 Michael Lyons
 2018–2019 Caleb Kaczmarek
 2017–2018 Melanie Florkowski
 2017–2018 Seana Florida
 2016–2018 Jessica Yan (UM UROP)
 2016–2017 Bella Rios (UM UROP)
 2016–2017 Aspen Ellis

- 2014 Max Witynski (undergraduate student / REU Field Museum summer intern)
 2013 Alice Henry (undergraduate student / Field Museum summer intern)

HIGH SCHOOL STUDENTS

- 2022 Eladiss Fuge (UM Aspirnaut Summer Research Intern)
 2019 Benjamin Hack (UM research assistant)
 2012 Griffin Harris (Field Museum summer intern)

SELECT MEDIA COVERAGE

HIGHLIGHTS

My research has garnered major media attention with **coverage in most major news sources** and interviews for popular science outlets including **Radiolab** and **National Geographic Magazine**. In 2019, two of my articles were highlighted in University of Michigan News' [Top 20 News Stories of the year](#). In Michigan, I give frequent interviews about ornithology and bird conservation for the state's top media outlets, including Michigan Radio, MLive, and Detroit Free Press. My research is highlighted in ornithology textbooks including a feature in the Cornell Lab of Ornithology's Handbook of Bird Biology.

GENERAL INTERVIEWS (SELECT)

- 2022 Audubon, "How and why did bird migration evolve?"
 2022 Audubon, "Many birds are shrinking and growing longer wings as the world warms..."
 2021 Michigan Radio Statewide with April Baer interview, "Bird migration changes"
 2021 Michigan Radio Environment Report, "Migrating birds confused by lighted buildings..."
 2021 Science News, "Climate Change may be Shrinking Amazonian Birds"
 2021 Smithsonian Magazine, "Climate Change is Transforming the Bodies of Amazonian Birds"
 2021 Detroit Free Press, "Rare bird sighting in Saline brings bird-watchers together"
 2021 MLive, "It's still winter in Michigan so why are we seeing robins?"
 2021 Smithsonian Magazine, "Earth's Harshest Ecosystems May Birth New Species Fastest"
 2021 Crain's Business Detroit, "Buildings kill a billion birds a year. Detroit is among the worst..."
 2020 Greater Bloomfield Megacast Interview on birding in Michigan
 2020 MLive, "Why unusual birds are showing up around Michigan this fall"
 2020 MLive, "How to level up your Michigan birdwatching this spring"
 2019 Radiolab, "There and Back Again"
 2019 National Wildlife Magazine, "Going the Distance"
 2018 National Geographic Magazine, "The Epic Journeys of Migratory Birds"
 2013 Groks Science Radio Show, "Discovering Bird Species"

Zimova et al. 2021, *Journal of Animal Ecology* ("Widespread shifts of bird migration phenology...")

Michigan Radio | Wildlife Society | Nature Conservancy Cool Green Science

Van Doren et al. 2021, *PNAS* ("Drivers of fatal bird collisions...")

Chicago Tribune front page story & editorial | The Hill | Daily Mail

Weeks et al. 2020, *Ecology Letters* ("Shared morphological consequences of global warming...")

#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 | Smithsonian Magazine

Winger et al. 2019, *Proc B* ("Nocturnal flight calling behavior predicts vulnerability to artificial light...")

Science Magazine | PBS Nova | Chicago Tribune | National Audubon Society | The Guardian | The

Conversation | NSF News | The Environment Report, Michigan Radio

Winger et al. 2014, PNAS (“Temperate origins of long-distance seasonal migration...”)

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

Seeholzer et al. 2008, The Auk (“A new species of barbet...”)

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

OTHER RESEARCH FEATURES & PROFILES

2021 [American Ornithological Society Wingbeat blog feature](#)
 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
 2014 Featured recordist, Macaulay Library of Natural Sounds Facebook page
 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

SCIENTIFIC CONSULTANCIES

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