

BRIAN WEEKS

University of Michigan
School for Environment and Sustainability
Dana Building, 440 Church St, Ann Arbor, MI 48109
bcweeks@umich.edu; <http://bcweeks.weebly.com>

EDUCATION

Columbia University

Ph.D. in Ecology, Evolution and Environmental Biology	2017
Advisors: Shahid Naeem and Joel Cracraft	
M.Phil. in Ecology, Evolution and Environmental Biology	2014
M.A. in Ecology, Evolution and Environmental Biology	2013

Brown University

B.A., with honors, in Human Biology: Ecology and Evolution	2006
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EMPLOYMENT

- Assistant Professor, School for Environment and Sustainability, University of Michigan, September 2019 – present
- Affiliated Researcher, Department of Ornithology, University of Michigan Museum of Zoology 2020 – present
- Postdoctoral Researcher, Department of Ecology and Evolutionary Biology, University of Michigan, 2017-2019
- Pacific Programs Manager, Center for Biodiversity and Conservation, American Museum of Natural History, July 2010-July 2011
- Production Manager, Network of Conservation Educators and Practitioners, Center for Biodiversity and Conservation, American Museum of Natural History, August 2007-July 2010

PUBLICATIONS (*student or postdoc in the lab)

Submitted or in review

1. **Weeks, B.C.**, S. Naeem, J.R. Lasky, and J.A. Tobias. In revision. An inverse relationship between diversity and extinction risk at a global scale.
2. Allgeier, J.E., **B.C. Weeks**, K.S. Munsterman, N. Wale, S.J. Wenger, V. Parravicini, N.M.D. Schiettekatte, S. Villéger, D.E. Burkepile. In revision. Phylogenetic conservatism drives nutrient dynamics of coral reef fishes.
3. Tobias, J.A...**B.C. Weeks**...*et al.* Avonet: Functional traits for the world's birds. In revision.
4. Zhou, Z., G. Mohammed, **B.C. Weeks**, D. Fouhey. Quantifying bird skeletons. In review.

Published or in press

5. Zimova, M.*, D.E. Willard, B.M. Winger, and **B.C. Weeks**. In press. Widespread shifts in bird migration phenology are decoupled from parallel shifts in morphology. *Journal of Animal Ecology*.
6. Cowles, S.A., **B.C. Weeks**, L. Perrin, N. Chen, and J.A.C. Uy. In press. Small estimated population sizes of the two Kolombangara White-eye *Zosterops* species suggest need for stringent conservation efforts. *Emu – Austral Ornithology*.
7. Anujan, K., S.A. Heilpern, C.M. Prager, **B.C. Weeks**, S. Naeem. 2021. Trophic complexity alters the diversity-multifunctionality relationship in experimental grassland mesocosms. *Ecology and Evolution*.
8. **Weeks, B.C.**, S. Naeem, B.M. Winger, and J. Cracraft. 2020. The relationship between morphology and behavior in mixed-species flocks of island birds. *Ecology and Evolution*.
9. Oliver, R.Y., P.J. Mahoney, E. Gurarie, N. Krikun, **B.C. Weeks**, M. Hebblewhite, G. Liston, and N. Boelman. 2020. Dynamic responses to the local environment are a mechanism for shifting migratory phenology. *Environmental Research Letters*. 15(4): 045003.
10. **Weeks, B.C.**, D. Willard, M. Zimova*, M. Hennen, M. Witynski, A. Ellis, S. Florida, and B.M. Winger. 2020. Shared morphological consequences of global warming in North American migratory birds. *Ecology Letters*. 23(2): 316-325.

Covered in *Science*, *Wall Street Journal*, *Washington Post*, *BBC News*, *Le Monde*, *El País*, and over 100 additional news outlets from over 10 countries. [Highest altmetric score \(1,391\) for a paper in the history of the journal \(as of Jan 2021\); complete altmetrics here.](#)
11. Pigot, A.L., C. Sheard, E.T. Miller, T.P. Bregman, B.G. Freeman, U. Roll, N. Seddon, D. Swindlehurst, **B.C. Weeks**, and J.A. Tobias. 2020. Macroevolutionary convergence connects morphological form to ecological function in birds. *Nature Ecology and Evolution*. 4: 230-239.
ISI Highly Cited paper (Jan. 2021).
12. Winger, B.M., **B.C. Weeks**, A. Jones, and D. Willard. 2019. Light and flight calls interact to determine building collision frequency in migratory birds. *Proceedings of the Royal Society B: Biological Sciences* 286(1900): 20190364.
Covered by: [Science](#), [The Chicago Tribune](#), [Audubon](#), and 14 other outlets; [Complete altmetrics here.](#)
13. Winger, B.M., G. Auteri, T.M. Pegan, and **B.C. Weeks**. 2019. A long winter for the red queen: rethinking the evolution of seasonal migration. *Biological Reviews*.
Received the American Ornithological Society [Katma Award](#) (for papers that challenge dogma)
14. Heilpern, S., **B.C. Weeks**, and S. Naeem. 2018. Predicting ecosystem vulnerability to biodiversity loss from community composition. *Ecology*. 99(5): 1099-1107.

15. **Weeks, B.C.**, J. Diamond, P. Sweet, C. Smith, G. Scoville, and C.E. Filardi. 2017. New behavioral, ecological, and biogeographic data on the montane avifauna of Kolombangara, Solomon Islands. *The Wilson Journal of Ornithology*. 129(4): 676-700.
16. Lasky, J., T.H. Keitt, **B.C. Weeks**, and E.P. Economo. 2017. A hierarchical model of whole assemblage island biogeography. *Ecography*. 40(8): 982-990.
17. **Weeks, B.C.**, N. Gregory, and S. Naeem. 2016. Bird assemblage vulnerability depends on the diversity and biogeographic histories of islands. *Proceedings of the National Academy of Sciences*. 113(36): 10109-10114.
18. Naeem, S., C. Prager, **B.C. Weeks**, A. Varga, D. Flynn, K. Griffin, R. Muscarella, S. Wood, and W. Schuster. 2016. Biodiversity as a multidimensional construct: a review, framework, and case study of herbivory's impact on plant biodiversity. *Proceedings of the Royal Society B: Biological Sciences*. 283: 20153005.
19. **Weeks, B.C.**, S. Claramunt, and J. Cracraft. 2016. Integrating systematics and biogeography to disentangle the roles of history and ecology in biotic assembly. *Journal of Biogeography*. 43(8): 1546-1559.
20. **Weeks, B.C.** and S. Claramunt. 2014. Dispersal has inhibited avian diversification in Australasian archipelagoes. *Proceedings of the Royal Society B: Biological Sciences*. 281: 20141257.
21. **Weeks, B.C.** and C.E. Filardi. 2011. Community is key to REDD success. *Nature* 474: 450.
22. Alexander, C., N. Bynum, L. Johnson, U. King, T. Mustonen, P. Neofotis, N. Oetlé, C. Rosenzweig, C. Sakakibara, M. Vicarelli, J. Waterhouse, and **B.C. Weeks**. 2011. Linking indigenous and scientific knowledge of climate change. *BioScience* 61(6): 477-484.
23. **Weeks, B.C.**, S.P. Hamburg, and M.A. Vadeboncoeur. 2009. Ice storm effects on the canopy structure of a northern hardwood forest after 8 years. *Canadian Journal of Forest Research* 39(8): 1475-1483.
24. Bynum, N., E.J. Sterling, **B.C. Weeks**, A. Gomez, K. Roosenburg, E. Vintinner, F. Arengo, M. Domroese, and R. Pearson. 2009. Emerging topics in the study of life on earth: systems approaches to biological and cultural diversity. *Science Education and Civic Engagement: An International Journal* 2(1): 38-55.

GRANTS AND FELLOWSHIPS

- Predicting the limits to adaptive shifts in range and phenology in migratory birds. 2019. PI. **Institute for Global Change Biology, University of Michigan (\$149,500).**
- Untangling history and ecology to reconstruct the assembly of an iconic avifauna. 2016. Doctoral Dissertation Improvement Grant, **National Science Foundation.**
- Mixed-species flock ecology on Makira and Choiseul, Solomon Islands. 2016. Frank M. Chapman Memorial Fund, **American Museum of Natural History.**

Community assembly in the Solomon Islands: Integrating phylogenetics and community ecology. 2011-2015. Graduate Research Fellowship Program, **National Science Foundation**.

Mixed-species flock characterization on Malaita, Solomon Islands. 2013. Frank M. Chapman Memorial Fund, **American Museum of Natural History**.

Research on customary lands: A preliminary assessment of fieldwork feasibility in the Solomon Islands. 2012. **Columbia University**.

TEACHING

Master's Thesis Development, University of Michigan, Fall 2020

Conservation Biology, University of Michigan, Winter 2021

An Introduction to R, University of Michigan, Winter 2021

MENTORING

PhD Primary Advisor: Tiffany Dias (UM; 2020-)

MS Thesis Advisor: Madeleine Klemz (UM; 2020-), Mingyu Zhang (UM 2020-), Morgan Dean (UM 2020-)

Postdoctoral Research Fellows: Marketa Zimova (UM; 2017-)

PhD Committee Member: Katrina Munsterman (UM; 2020-), Kristen Wacker (UM; 2020-)

Faculty Advisor, Michigan Internship Learning Environment, 2019

Program in the Environment, Independent Research (2 BA students: Madeleine Klemz and Sophie Barlow), Fall 2019

Mentor for the Undergraduate Research Opportunity Program, U of Michigan, academic year 2017-2018

Mentor for the Student Research Mentorship Program (2 HS students), AMNH, academic year 2016-2017

Rebecca Lewis, HS student, Measuring bird wings of the world, Summer 2014

FIELD WORK

2018 Ornithological collection, Upper Peninsula, Michigan

2017 Ornithological collection, Kyrgyzstan and Upper Peninsula, Michigan

2016 Migratory bird GPS tagging, Northern Canada; Mixed-species flock observation, Solomon Islands

2013 Ornithological collection and ecological observation, Solomon Islands

2012 Ornithological collection and ecological observation, Australia and Solomon Islands

2011 Conservation and education programmatic support, Solomon Islands

2010 Conservation and education programmatic support, Solomon Islands

2009 Conservation and education programmatic support, Solomon Islands

2005 Canopy foliage-height profile research at Hubbard Brook Forest, NH.

2004 Soil nutrient study at the Hubbard Brook Experimental Forest, NH.

PROFESSIONAL SERVICE

Reviewer: *Nature Communications, Evolution, Molecular Ecology, Ecological Applications, Journal of Avian Biology, Communications Biology, Biological Journal of the Linnean Society, Biology Letters, Ecology and Evolution, Emu: Austral Ornithology, The Wilson Journal of Ornithology, New Phytologist, Global Ecology and Conservation*

Specimen collection and preparation from expeditions to: Solomon Islands (multiple), Kyrgyzstan, Australia, Boreal North America (multiple)

PRESENTATIONS

1. **Weeks, B.C.** 2021. What can 70,000 bird specimens tell us about the impacts of climate change on migratory birds? Rocky Point Bird Observatory.
2. **Weeks, B.C.** 2020. Using 70,000 bird specimens to understand 40 years of warming-driven morphological change. Invited talk. Kellogg Biological Station, Michigan State University.
3. **Weeks, B.C.** 2020. The relationship between morphology and behavior in mixed-species flocks of island birds. Invited talk. Andersen Lab, University of New Mexico.
4. **Weeks, B.C.** and J. Tobias. 2019. The impacts of diversity and assembly on community vulnerability. Invited talk. Annual meeting of the American Ornithological Society.
5. Pegan, T., **B.C. Weeks**, and B. Winger. 2019. How do dispersal and migration influence range expansion in birds? Annual meeting of the American Ornithological Society.
6. Winger, B., **B.C. Weeks**, et al. 2019. Nocturnal flight-calling behaviour predicts vulnerability to artificial light in migratory birds. Annual meeting of the American Ornithological Society.
7. **Weeks, B.C.** 2018. A role for history in biodiversity-ecosystem function relationships. Early professional mini talks. Annual meeting of the American Ornithological Society.
8. **Weeks, B.C.** 2018. Moving to the mainland: Expanding assessment of the impacts of biodiversity and biogeography on assemblage vulnerability. Annual meeting of the American Ornithological Society.
9. Heilpern, S., **B.C. Weeks**, and S. Naeem. Predicting ecosystem vulnerability to biodiversity loss from community composition. 2018. Annual meeting of the Ecological Society of America.
10. Anujan, K., S. Heilpern, C. Prager, **B.C. Weeks**, S. Bruner, and S. Naeem. 2018. Trophic level structure alters the diversity-multifunctionality effect in experimental grassland mesocosms. Annual meeting of the Ecological Society of America.
11. **Weeks, B.C.** 2014. Origins of avian diversity in the South Pacific, community assembly, and contemporary ecology. Invited seminar, Jetz lab at Yale University.
12. **Weeks, B.C.**, E.R. Fischer, N. Gregory, H. Jaris, A. Klavans, D.L. Kriensky, A. Varga, and S. Naeem. 2014. Diversity and the robustness of avian assemblages in the Solomon Archipelago. Annual Meeting of the Ecological Society of America. Sacramento, CA.
13. Naeem, S., **B.C. Weeks**, C.M. Prager, A.T. Varga, S.A. Wood, and R. Muscarella. 2014. Herbivore-induced dissolution of the dimensional structure of biodiversity's association with ecosystem functioning: Impacts of deer exclusion on biodiversity

and ecosystem functioning in a temperate forest. Annual Meeting of the Ecological Society of America. Sacramento, CA.

14. Cracraft, J.L., **B.C. Weeks**, and S. Claramunt. 2012. Reconstructing the history of ecological assemblages at different spatiotemporal scales: an evolutionary approach. Presented as a keynote talk at the Association for Tropical Biology and Conservation's 49th Annual Meeting. Bonito-MS, Brazil.
15. Filardi, C.E. and **B.C. Weeks**. 2011. Pan-Pacific evolutionary scale, regional policy, and meeting the challenges of local conservation action in the Solomon Islands. Presented at the Smithsonian National Museum of Natural History's Evolution of Life on Pacific Islands and Reefs: Past, Present, and Future. Honolulu, HI.

LANGUAGES

R, Solomon Islands Pijin (fluent)