

BRIAN WEEKS

University of Michigan
Department of Ecology and Evolutionary Biology
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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, starting September, 2019
- Postdoctoral Researcher, Department of Ecology and Evolutionary Biology, University of Michigan, Advisor: Benjamin Winger, 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

1. **Weeks, B.C.**, D. Willard, M. Hennen, M. Witynski, A. Ellis, S. Florida, and B.M. Winger. In revision. Shared morphological consequences of global warming in North American migratory birds. *Ecology Letters*.
2. Anujan, K., S.A. Heilpern, C.M. Prager, **B.C. Weeks**, and S. Naeem. In review. Trophic complexity alters the diversity-multifunctionality relationship in experimental grassland mesocosms. *Nature Ecology and Evolution*
3. Pigot, A.L., C. Sheard, T.P. Bregman, B.G. Freeman, E.T. Miller, N. Seddon, C.H. Trisos, **B.C. Weeks**, D. Swindlehurst, and J.A. Tobias. Submitted. The multidimensional hypervolume of avian form and function.
4. Oliver, R.Y., P.J. Mahoney, E. Gurarie, N. Krikun, **B.C. Weeks**, M. Hebblewhite, G. Liston, and N. Boelman. In review. Dynamic responses to the local environment are a mechanism for shifting migratory phenology. *Science Advances*.

5. 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](#), [PBS Nova](#), [The Chicago Tribune](#), [Audubon](#), [Cosmos](#), [Phys.org](#), [Tech Times](#) & [Science Alert](#)
6. Winger, B.M., G. Auteri, T.M. Pegan, and **B.C. Weeks**. 2018. 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)
7. Heilpern, S., **B.C. Weeks**, and S. Naeem. 2018. Predicting ecosystem vulnerability to biodiversity loss from community composition. *Ecology*. 99(5): 1099-1107.
8. **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.
9. 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.
10. **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.
11. 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.
12. **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.
13. **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.
14. **Weeks, B.C.** and C.E. Filardi. 2011. Community is key to REDD success. *Nature* 474: 450.
15. Alexander, C., N. Bynum, L. Johnson, U. King, T. Mustonen, P. Neofotis, N. Oetllé, 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.
16. **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.
17. 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.

Manuscripts in advanced stages

18. **Weeks, B.C.**, S. Naeem, B.M. Winger, and J. Cracraft. A complex relationship between morphology and behavior in mixed-species flocks of island birds.
19. **Weeks, B.C.**, T.M. Pegan, and B.M. Winger. Decomposing dispersal ability: using migration to gain insights into the impacts of movement on evolutionary dynamics.
20. **Weeks, B.C.** and B.M. Winger. Interpreting macroevolutionary rates of morphological disparification in light of decadal-scale local adaptation.

GRANTS AND FELLOWSHIPS

Predicting the limits to adaptive shifts in range and phenology in migratory birds. 2019. **Institute for Global Change Biology, University of Michigan.**

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

Food, Ecology, and Globalization, Columbia University, Teaching Assistant, Spring 2014

Conservation Biology, Columbia University, Teaching Assistant, Spring 2013

Fundamentals of Ecology and Evolution, Columbia University, Teaching Assistant, Fall 2012

Environmental Policy and Practice, Brown University, Teaching Assistant, Spring 2006

MENTORING

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: *Evolution, Molecular Ecology, Journal of Avian Biology, Biological Journal of the Linnean Society, Biology Letters, Emu: Austral Ornithology, New Phytologist, Global Ecology and Conservation*

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

PEER-REVIEWED EDUCATIONAL MATERIALS AND BOOK CHAPTERS

1. Hemmer, C., D. Boseto, and **B.C. Weeks**. In press. Timber agreements affecting customary land in the Solomon Islands. Network of Conservation Educators and Practitioners, American Museum of Natural History.
2. **Weeks, B.C.** 2016. Birds, pages 72-80 in *Solomon Islands Forest Life: Information on biology & management of forest resources*, eds. T. Lavery, P. Pikacha, and D. Fisher.
3. **Weeks, B.C.** and M. Esbach. 2015. Valuing ecosystem services: A qualitative analysis of drinking water in the Solomon Islands. Network of Conservation Educators and Practitioners, American Museum of Natural History. Available from: <http://ncep.amnh.org>.
4. Manioli, J., P. Pikacha, and **B.C. Weeks**. 2013. Tetepare: The last wild island. Network of Conservation Educators and Practitioners, American Museum of Natural History. Available from: <http://ncep.amnh.org>.
5. Landrigan, K.A. and **B.C. Weeks**. 2012. Biological and Cultural Diversity of the Solomon Islands. Network of Conservation Educators and Practitioners, American Museum of Natural History. Available from: <http://ncep.amnh.org>.
6. Christensen, N., K. Wheeler, E. Vintinner, and **B.C. Weeks**. 2010. Exploring the Colorado River Basin: An Interactive Water Management Exercise. Available from: <http://ncep.amnh.org> and http://ncep.amnh.org/colorado_simulation/.
7. Harrison, I.J., M.F. Laverty, E.J. Sterling, **B.C. Weeks**, and E. Vintinner. 2008. What is biodiversity? Network of Conservation Educators and Practitioners, American Museum of Natural History. Available from: <http://ncep.amnh.org>.

8. Laverty, M.F., E.J. Sterling, **B.C. Weeks**, and E. Vintinner. 2008. Overview of threats to biodiversity. Network of Conservation Educators and Practitioners, American Museum of Natural History. Available from: <http://ncep.amnh.org>.
9. Laverty, M.F., E.J. Sterling, E.A. Johnson, E. Vintinner, and **B.C. Weeks**. 2008. Why is biodiversity important? Network of Conservation Educators and Practitioners, American Museum of Natural History. Available from: <http://ncep.amnh.org>.

PRESENTATIONS

1. **Weeks, B.C.** 2018. A role for history in biodiversity-ecosystem function relationships. Early professional mini talks. Annual meeting of the American Ornithological Society.
2. **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.
3. 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.
4. 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.
5. **Weeks, B.C.** 2014. Origins of avian diversity in the South Pacific, community assembly, and contemporary ecology. Invited seminar, Jetz lab at Yale University.
6. **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.
7. 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.
8. 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.
9. 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)