**Brian Weeks**

University of Michigan

School for Environment and Sustainability

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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

**Employment**

• Assistant Professor, School for Environment and Sustainability, University of Michigan, September 2019 – 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. Anujan, K., S.A. Heilpern, C.M. Prager, **B.C. Weeks**, S. Naeem. Trophic complexity alters the diversity-multifunctionality relationship in experimental grassland mesocosms*.*
2. **Weeks, B.C.**, S. Naeem, B.M. Winger, and J. Cracraft. There is a complex relationship between morphology and behavior in mixed-species flocks of island birds.
3. **Weeks, B.C.** Operational taxonomic units are unreliable reflections of biodiversity.

*Published or in press*

1. 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.
2. **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 for a paper in the history of the journal; complete altmetrics here.](https://wiley.altmetric.com/details/72023372)

1. 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.
2. 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*](https://www.sciencemag.org/news/2019/04/tweeting-while-flying-kills-migratory-birds)*,* [*The Chicago Tribune*](https://www.chicagotribune.com/news/local/breaking/ct-met-migratory-bird-collisions-chicago-20190402-story.html)*,* [Audubon](https://www.audubon.org/news/four-decades-building-strike-records-point-super-collider-birds), and 14 other outlets; [Complete altmetrics here.](https://royalsociety.altmetric.com/details/58423524)

1. 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](http://www.americanornithology.org/content/aos-katma-award) (for papers that challenge dogma)

1. Heilpern, S., **B.C. Weeks**, and S. Naeem. 2018. Predicting ecosystem vulnerability to biodiversity loss from community composition. *Ecology.* 99(5): 1099-1107.
2. **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.
3. 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.
4. **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.
5. 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.
6. **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.
7. **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.
8. **Weeks, B.C.** and C.E. Filardi. 2011. Community is key to REDD success. *Nature* 474: 450.
9. Alexander, C., N. Bynum, L. Johnson, U. King, T. Mustonen, P. Neofotis, N. Oettlé, 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.
10. **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.
11. 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*

1. **Weeks, B.C.** and B.M. Winger. Interpreting macroevolutionary rates of morphological disparification in light of decadal-scale local adaptation.
2. **Weeks, B.C.**, A.L. Pigot, S. Naeem, and J.A. Tobias. Biodiversity, assembly, and vulnerability in birds.

**Grants and Fellowships**

Reconstructing exposure to heavy metals in Michigan using historical bird specimens. Principal Investigator. Pending. **M-LEEaD, University of Michigan ($24,825).**

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**

*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**

PhD Committee Member Katrina Munsterman (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, Journal of Avian 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)

**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.** and J. Tobias. 2019. The impacts of diversity and assembly on community vulnerability. Invited talk. Annual meeting of the American Ornithological Society.
2. 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.
3. 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.
4. **Weeks, B.C.** 2018. A role for history in biodiversity-ecosystem function relationships. Early professional mini talks. Annual meeting of the American Ornithological Society.
5. **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.
6. 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.
7. 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.
8. **Weeks, B.C.** 2014. Origins of avian diversity in the South Pacific, community assembly, and contemporary ecology. Invited seminar, Jetz lab at Yale University.
9. **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.
10. 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.
11. 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.
12. 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)