

## Biographical Sketch

Christine A. Bahlai Ph.D

### a) Professional Preparation

University of Guelph	Guelph, Canada	Physical Science	B.Sc. 2004
University of Guelph	Guelph, Canada	Entomology	M.Sc. 2007
University of Guelph	Guelph, Canada	Environmental Biology	Ph.D. 2012

### (b) Appointments

2017-	<b>Assistant Professor</b> , Biological Sciences, Kent State University
2015-	<b>Associate Scientist</b> , Kellogg Biological Station LTER, Michigan State University
2016-2017	<b>Research Associate</b> , Integrative Biology, Michigan State University
2015-2016	<b>Mozilla Fellow for Science</b> , Mozilla Foundation
2012-2015	<b>Research Associate</b> , Kellogg Biological Station LTER, Michigan State University
2010-2011	<b>Consultant</b> , Species-At-Risk Recovery Planning, Nature Conservancy of Canada.
2007-2009	<b>Instructor</b> , School of Environmental Sciences, University of Guelph.

### (c) Publications

#### i) Publications relating to proposed research

- Cusser, S, **C. Bahlai**, S.M Swinton, G.P. Robertson, N.M. Haddad. 2020. Long-term research avoids spurious and misleading trends in sustainability attributes of no-till. **Global Change Biology**. DOI: <https://doi.org/10.1111/gcb.15080>
- Bahlai, C.A.** and E.F. Zipkin. 2020. The Dynamic Shift Detector: a model to identify changes in dynamic rules governing populations. **PLoS Computational Biology**. 16(1): e1007542. DOI: <https://doi.org/10.1371/journal.pcbi.1007542>
- Saunders, S.P., \*M.T. Farr, \*A.D. Wright, **C.A. Bahlai**, \*J.W. Ribeiro Jr., S. Rossman, \*A.L. Sussman, T.W. Arnold, and E.F. Zipkin. 2019. Disentangling data discrepancies and deficiencies with integrated population models. **Ecology**. DOI: <https://doi.org/10.1002/ecy.2714>
- Spasojevic, M.J., **C A. Bahlai**, B.A. Bradley, B.J. Butterfield, M.N. Tuanmu, S. Sistla, R. Wiederholt, and K.N. Suding. **2016**. Scaling up the diversity-resilience relationship with trait databases and remote sensing data: the recovery of productivity after wildfire. **Global Change Biology**. DOI: 10.1111/gcb.13174
- Bahlai, C.A.**, W. van der Werf, M.E. O'Neal, L. Hemerik, and D.A. Landis. **2015**. Dual regime shifts in dynamics of an invasive predator are linked to the invasion and insecticidal control of its prey. **Ecological Applications**. <http://dx.doi.org/10.1890/14-2022.1>

#### ii) Additional significant products

- McGlynn, T.P., E.K. Meineke, C.A. Bahlai, E. Li, E.A. Hartop, B.J. Adams, and B.V. Brown. 2019. Temperature accounts for the biodiversity of a hyperdiverse group of insects in urban Los Angeles. *Proceedings of the Royal Society B*. DOI: <https://doi.org/10.1098/rspb.2019.1818>

- Hermann, S. S. Xue, L. Rowe, E. Davidson-Lowe, A. Myers, B. Eshchanov, and C.A. Bahlai. 2016. Thermally moderated firefly activity is delayed by precipitation extremes. *Royal Society Open Science*. DOI: 10.1098/rsos.160712
- Bahlai, C.A.** and D.A. Landis. **2016**. Predicting plant attractiveness to pollinators with passive crowdsourcing. **Royal Society Open Science**. DOI: 10.1098/rsos.150677
- Bahlai, C.** and T. Teal, eds. (48 authors). **2017**. Data Carpentry Spreadsheet Ecology Lesson v2017.04.0 Zenodo. <http://doi.org/10.5281/zenodo.570047> (**peer and community reviewed**)
- Bahlai, C.A.**, M. Colunga-Garcia, S.H. Gage, and D.A. Landis. **2015**. The role of exotic species in the decline of native ladybeetle populations: evidence from long-term monitoring. **Biological Invasions**. 17: 1005-1024. DOI: 10.1007/s10530-014-0772-4

#### (d) Synergistic Activities

1. Designer and instructor, the *Reproducible Quantitative Methods* course (<https://cbahlai.github.io/rqm-template/>), 2016- current
2. *Mozilla Science Fellow*, 2015-2016- fellowship supporting advocacy, curriculum development and other activities to support web-enabled scientific practice.
3. *Species-at-Risk Recovery plan consultant*, *Nature Conservancy of Canada*- drafted Canadian governmental environmental policy documents in collaboration with conservation organizations.
4. Co-Developer, *The Aphid Advisor*, a smartphone app which serves as a scouting and identification tool for pest management- linking ecological processes to land management decisions (<http://www.aphidapp.com/>).
5. Blogger, *Practical Data Management for Bug Counters (and people that count other things, too)* (<https://practicaldatamanagement.wordpress.com/>)