

Jacob Usinowicz

Institute of Integrative Biology, ETH Zurich | Universitaetstrasse 16,8092 Zurich, Switzerland
+41 44 633 87 43 | jacob.usinowicz@usys.ethz.ch | jacobusinowicz.com

Professional Appointments and Education

Postdoctoral researcher:

Institute of Integrative Biology, ETH Zurich, Postdoctoral Researcher. 2014 – present
Mentor: Jonathan Levine

Ph.D. Integrative Biology

University of Wisconsin, Madison. PhD. program in Zoology. 2009 – 2014
Mentor: Anthony R. Ives

B.A. Human Ecology, focus in Physics and Biology

College of the Atlantic. 1999-2003.

Publications

- 8) **Usinowicz, J.** and J.M. Levine. In Press. Species persistence under climate change: a geographic scale coexistence problem. *Ecology Letters*.
- 7) Alexander, J. M., J. M. Diez, **J. Usinowicz**, and S. P. Hart. 2018. Species' Distributions as a Coexistence Problem: A Response to Godsoe et al. *Trends in ecology & evolution* 33:144–145.
- 6) **Usinowicz, J.**, C. Chang-Yang, Y. Chen, J. S. Clark, C. Fletcher, N. C. Garwood, Z. Hao, J. Johnstone, Y. Lin, M. R. Metz, T. Masaki, T. Nakashizuka, I. Sun, R. Valencia, Y. Wang, J. K. Zimmerman, A. R. Ives, S. J. Wright. 2017. Temporal coexistence mechanisms contribute to the latitudinal gradient in forest diversity. *Nature*. 550:105–108.
- 5) Hart, S. P., **J. Usinowicz**, and J. M. Levine. 2017. The spatial scales of species coexistence. *Nature Ecology & Evolution* 1:1066.
- 4) **Usinowicz, J.**, J. Qiu, and A. Kamarainen. 2016. Flashiness and Flooding of Two Lakes in the Upper Midwest During a Century of Urbanization and Climate Change. *Ecosystems*:1–15.
- 3) **Usinowicz, J.** 2015. Limited Dispersal Drives Clustering and Reduces Coexistence by the Storage Effect. *The American Naturalist* 186:634–648
- 2) S. K. Carter, E. S. Childress, K. J. Cromwell, C. Gratton, A. O. Hasley, B. M. Kraemer, **J. Usinowicz** and Others. 2015. The rise of novelty in ecosystems. *Ecological Applications* 25:2051–2068.
- 1) **Usinowicz, J.**, S. J. Wright, and A. R. Ives. 2012. Coexistence in tropical forests through asynchronous variation in annual seed production. *Ecology* 93:2073–2084.

Non-academic reports

Childress, E. , Christel, S., Cromwell, K., Hasley, A., Kraemer, B., Latzka, A., Mikulyuk, A., Ramirez Reyes, C., Raynor, J., Stenglein, J., Usinowicz, J., Vander Zanden, J., Walsh, J. 2013. Interim Progress of the Yahara Watershed Adaptive Management Pilot Project .

Grants and Fellowships

Graduate

- 2013-2014. NSF IGERT Fellowship: Novel Ecosystems
- 2012. Teaching Fellow. College of Letters and Sciences, University of Wisconsin, Madison.
- 2010, 2012. John Jefferson Davis Travel Award. Zoology Department, University of Wisconsin, Madison.
- 2008, 2010. Bundt Research Award. Zoology Department, University of Wisconsin, Madison.

Undergraduate

- 2003. Kathryn Davis International Travel Scholarship.
- 2002. NSF REU Fellow at the Santa Fe Institute.
Mentor: Dr. Jim Crutchfield
- 1999-2003, Geneva S. Hull Scholarship for Environmental Studies.

Scientific Presentations

Invited Seminars

- 2014. Asynchronous reproduction and coexistence in forest communities. Center for Tropical Forest Studies (CTFS) annual workshop, Front Royal, Virginia.
- 2012. Annual variability and the storage effect in a tropical forest. Smithsonian Tropical Research Institute, Barro Colorado Island, Panama

Conference Presentations

- 2018. Species persistence in a changing environment: a geographic scale coexistence problem. Invited speaker, Ecological Society of America.
- 2017. Disentangling the impacts of changing competitive interactions during climate-driven range shifts. Ecological Society of America
- 2015. Reproductive asynchrony and the storage effect contribute to the latitudinal gradient in forest diversity. Ecological Society of America,
- 2013. Limited dispersal drives clustering and reduces coexistence by the storage effect in a spatially explicit lottery model. Ecological Society of America,
- 2010. Coexistence in tropical forests mediated by asynchronous variation in annual seed production. Ecological Society of America

Journal Peer Review

- 2018. Ecology Letters, The American Naturalist, Global Ecology and Biology, Biology Letters, Plant Biology.
- 2017. Global Change Biology
- 2016. Functional Ecology, Ecology
- 2015. Ecology, Annals of Botany, Methods in Ecology and Evolution
- 2014. The American Naturalist
- 2013. PNAS, Ecological Monographs

Teaching and Mentoring

Teaching honors

2012. L&S Teaching Fellowship. College of Letters and Science. UW - Madison

Teaching appointments

2015-2018. Co-instructor "Advanced Topics in Plant Population and Community Ecology" (M.Sc. level), ETH Zürich.

2012. Instructor "L&S Teaching Fellows - Tips for Teachers" series

2008- 2012. Co-Instructor, Zoology 102, Introductory Zoology Lab. UW-Madison

2009. Spring. Teaching Assistant, Zoology/Botany 260, Introduction to Ecology. UW-Madison

Mentoring

2016-2017. Pascal Schweizer, M.Sc. Term Paper, ETH Zürich.

2015-2016. Sebastian Schneider, M.Sc. Term Paper, ETH Zürich.

2012-2013. Todd Olson, B.Sc. in Physics -- Quantitative Biology, UW-Madison