

Jacob Usinowicz

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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. 2018. Species persistence under climate change: a geographic scale coexistence problem. *Ecology Letters*. 21:1589–1603.
- 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 Presentations

- 2018. Species persistence in a changing environment: a geographic scale coexistence problem. Ecological Society of America Annual Conference.
- 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

- 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

Posters

- 2018. Gordon Research Conference: Unifying ecology across scales. Temporal coexistence mechanisms contribute to the latitudinal gradient in forest diversity.

Other

- 2018. Gordon Research Conference: Unifying ecology across scales. Session chair.

Journal Peer Review

- 2018. Ecology Letters, Ecology, 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-present. 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

2018. Vasco J. Lepori. M.Sc. Thesis reader: Competition drives species-specific phenological shifts in an annual grassland

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