

JACOB USINOWICZ

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PROFESSIONAL APPOINTMENTS AND EDUCATION

2019-Present. *Postdoctoral Fellow*: Biodiversity Research Center, University of British Columbia, Mentor: Mary O'Connor

2014 – 2019. *Postdoctoral Researcher*: Institute of Integrative Biology, ETH Zurich. Mentor: Jonathan Levine

2009 – 2014. *Ph.D. Integrative Biology*. University of Wisconsin, Madison. PhD. program in Zoology. Mentor: Anthony R. Ives

1999-2003. *B.A. Human Ecology, focus in Physics and Biology*. College of the Atlantic.

PEER-REVIEWED PUBLICATIONS

9. **Usinowicz, J.** and J.M. Levine. In Press. Climate-driven range shifts reduce persistence of competitors in a perennial plant community. *Global Change Biology*.
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 PUBLICATIONS

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

GRANTS AND FELLOWSHIPS

Graduate

2013-2014. \$70,000. NSF IGERT Fellowship: Novel Ecosystems

2012. \$3,000. Teaching Fellow. College of Letters and Sciences, University of Wisconsin, Madison.

2010, 2012. \$600 each, John Jefferson Davis Travel Award. Zoology Department, University of Wisconsin, Madison.

2008, 2010. \$3,000 each Bundt Research Award. Zoology Department, University of Wisconsin, Madison.

Undergraduate

2003. \$1600. 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

2020. Connecting Theory and Conservation. Conservation Discussion Group. University of British Columbia.

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

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

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.

ACADEMIC SERVICE

Professional services.

2019 *Ad hoc* proposal review. NSF DEB, Population & Community Ecology Program.

Reviewer services.

2020. Ecology Letters, Ecological Monographs, Global Change Biology.
2019. Ecology Letters, Oikos, Theoretical Population Biology, Ecology
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 awards

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

Teaching appointments

2015-2019 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

2020. Lara Calvo, Bamfield Marine Sciences Center. Directed studies project.
2020. Maggie Slein. Honors Thesis Co-Supervisor, Reed College
2020. Coreen Forbes. PhD. Thesis chapter co-supervisor with Mary O’Connor
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

Significant contributions to PhD. thesis work:

2020. Keila Stark, O’Connor Lab. 2019-2020. Kaleigh Davis, O’Connor Lab. 2015-2019. Mariana S.

2015-2019. Sebastian Block-Mungia, Levine Lab

REFERENCES

Mary O'Connor, Associate Professor, Biodiversity Research Center, University of British Columbia, Telephone: (604) 827-5653, Email: oconnor@zoology.ubc.ca

Jonathan M. Levine, Professor, Ecology and Evolutionary Biology, Princeton University, Telephone: (609) 258-8256, Email: levinej@princeton.edu

Ph.D. Adviser

Anthony R. Ives, Steenbock Professor of Biological Sciences, Department of Integrative Biology, University of Wisconsin–Madison, Madison, WI, Telephone: 608-262-1519, Email: arives@wisc.edu

Professional collaborators

S. Joseph Wright, Senior Staff Scientist: Smithsonian Tropical Research Institute, Balboa, Republic of Panama, Telephone: +507 212-8132, Email: wrightj@si.edu