

NATHAN I. WISNOSKI

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EDUCATION

Indiana University, Bloomington Ph.D in Biology – Evolution, Ecology, and Behavior Minor in Environmental Sciences, School of Public and Environmental Affairs	2014 – Present
The University of Texas at Austin B.S. in Biology – Ecology, Evolution, and Behavior Minor in Business, McCombs School of Business	2009 – 2013

RESEARCH EXPERIENCE

Ph.D. Candidate Indiana University Lennon Lab: Microbial Ecology and Evolution	August 2014 – Present <i>Bloomington, IN</i>
Field/Lab Technician University of Texas Hawkes Lab: Microbial Ecology and Biogeochemistry	Spring 2014 <i>Austin, TX</i>
Undergraduate Researcher University of Texas Leibold Lab: Community and Evolutionary Ecology	June 2012 – February 2014 <i>Austin, TX</i>

GRANTS

NSF LTER Network Communications Office (NCEAS). *A synthesis to identify how metacommunity dynamics mediate community responses to disturbance across the ecosystems represented in the LTER network.* PI: E.R. Sokol, co-PIs: C.M. Swan, **N.I. Wisnoski**. \$76,000. 2016–2018.

IU Sustainability Research Development Grant. *How does hydrological flow rate alter bioremediation of pesticides at the surface- groundwater interface?* PI: **N.I. Wisnoski**. \$5400. 2015.

FELLOWSHIPS AND AWARDS

Travel Award, Association for the Sciences of Limnology and Oceanography. \$606	2018
Travel Award, ESA Microbial Ecology Section. \$600	2017
George W. Brackenridge Fellowship, IU Biology. \$2000	2016
Travel Award, International Society for Microbial Ecology. €300	2016
Travel Award, Honorable Mention, ESA Microbial Ecology Section. \$150	2016
Departmental Research Recruitment Fellowship, IU Biology.	2014

MANUSCRIPTS

Wisnoski, N.I., M.A. Leibold, and J.T. Lennon. In review. *Dormancy in metacommunities*. <https://doi.org/10.17605/OSF.IO/UJMZC>

Voelker, N.M., P.L. Zarnetske, **N.I. Wisnoski**, J.D. Tonkin, C.M. Swan, S. Record, L. Marazzi, N. Lany, T. Lamy, A. Compagnoni, M.C.N. Castorani, R. Andrade, and E.R. Sokol. In review. *Novel insights to be gained from applying metacommunity theory to long-term biodiversity data*.

In preparation:

Wisnoski, N.I. and J.T. Lennon. In preparation. *Habitat-specific community assembly processes in a dendritic metacommunity*.

Wisnoski, N.I., M.E. Muscarella, M.L. Larsen, and J.T. Lennon. In preparation. *Dormancy and dispersal across ecosystem boundaries*.

Wisnoski N.I. and J.T. Lennon. In preparation. *The contribution of “seed banks” to bacterial community dynamics*.

Lamy, T., **N.I. Wisnoski**, R. Andrade, M.C.N. Castorani, A. Compagnoni, N. Lany, L. Marazzi, S. Record, C.M. Swan, J.D. Tonkin, N. Voelker, S. Wang, P.L. Zarnetske, and E.R. Sokol. In preparation. *The dual dimensions of metacommunity stability*.

Mueller, E.A., **N.I. Wisnoski**, A.L. Peralta, J.T. Lennon. In preparation. *Microbial rescue effects: how microbiomes can save hosts from extinction*.

BOOK REVIEWS

Wisnoski, N.I. and J.T. Lennon. 2016. “*Principles of Microbial Diversity*” by James W. Brown. The Quarterly Review of Biology. <https://doi.org/10.1086/685351>.

INVITED TALKS

Wisnoski, N.I. and J.T. Lennon. 2018. *Contribution of “seed banks” to bacterioplankton community dynamics*. Society for Freshwater Science Annual Meeting. Detroit, MI.

CONTRIBUTED TALKS AND POSTERS

Ward, A.S., S. Herzog, S.M. Wondzell, N. Schmadel, P. Blaen, J. Drummond, D.M. Hannah, C.J. Harman, J. Knapp, S. Krause, M.J. Kurz, A. Li, E. Marti, M. Miller, A. Milner, K. Neil, S. Plont, K. Roche, A.I. Packman, **N. Wisnoski**, J. Zarnetske. 2018. *How do hydrologic forcing and geologic setting control river corridor exchange in a 5th order mountain stream network?*. Geological Society of America Annual Meeting. Indianapolis, IN.

Sokol, E.R., **N.I. Wisnoski**, C.M. Swan. 2018. *Using long-term data to understand when metacommunities respond to disturbance*. Ecological Society of America Annual Meeting. New Orleans, LA.

Wisnoski, N.I., M.E. Muscarella, and J.T. Lennon. 2018. *Dispersal and dormancy across ecosystem boundaries*. Association for the Sciences of Limnology and Oceanography. Victoria, BC, Canada.

- Wisnoski, N.I.** and J.T. Lennon. 2017. *Microbial community assembly in dendritic metacommunities*. Ecological Society of America Annual Meeting. Portland, OR.
- Sokol, E.R., **N.I. Wisnoski**, C.M. Swan, R. Andrade, H.L. Bateman, A.G. Hope, J. Kominoski, N.K. Lany, L. Marazzi, S.J. Presley, A. Rassweiler, S. Record, M.R. Willig, and P.L. Zarnetske. 2017. *The role of long-term ecological research programs for testing metacommunity theory and understanding biodiversity patterns*. Ecological Society of America Annual Meeting. Portland, OR.
- Voelker, N.M., E.R. Sokol, **N.I. Wisnoski**, C.M. Swan, T. Lamy, M.C.N. Castorani, L. Marazzi, A. Compagnoni, J.R. Blanchard, R. Andrade, and N.K. Lany. 2017. *Evaluating the link between metacommunity stability and environmental variability across trophic groups represented at LTER sites*. Ecological Society of America Annual Meeting. Portland, OR.
- Wisnoski, N.I.** and J.T. Lennon. 2016. *Community assembly processes differ between surface water and sediment-associated communities in stream networks*. Ecological Society of America Annual Meeting. Fort Lauderdale, FL.
- Wisnoski, N.I.** and J.T. Lennon. 2016. *Local and regional processes in stream microbial community assembly (poster)*. International Symposium on Microbial Ecology (ISME 16). Montreal, QC.
- Wisnoski, N.I.**, A.S. Ward, and J.T. Lennon. 2015. *Bacterial metacommunity structure across a stream network (poster)*. LTER All Scientists Meeting. Estes Park, CO.

TEACHING

- Co-Instructor.** Quantitative Biodiversity (<https://goo.gl/y4oK7c>). *Indiana University*. Spring 2017.
- Associate Instructor.** Foundations of Biology: Diversity, Evolution, and Ecology. *Indiana University*. Spring 2016, Fall 2016, Spring 2018, Spring 2019.
- Associate Instructor.** Biology Laboratory. *Indiana University*. Fall 2014, Fall 2017, Fall 2018.
- Grader.** Microbial Ecology. *University of Texas*. Spring 2014.
- Teaching Assistant.** Biostatistics. *University of Texas*. Spring 2013, Fall 2013.

MENTORSHIP AND SERVICE

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| Undergraduate STEM Mentor
Indiana University
Undergraduate Mentees: Luke Pryke, Mollie Carrison
Summer REU Program: Jaylen Beatty, Mary Wallace, SydneyEllen Gooding | Jan 2015 – Present |
| High School STEM Mentor
Jim Holland Summer Scholars Program
High School Mentees: Dakayla Calhoun, Samuel Iwu, Ian Schowe | Summer 2015 – Present |
| High School Riverwatch Sampling Coordinator
Jim Holland Summer Enrichment Program
Supervised macroinvertebrate sampling activity with high school students to analyze stream quality | Summer 2017 – Present |
| EcoLunch Co-Organizer
Indiana University | August 2015 – May 2016 |

Led student research and professional development seminar series

Metacommunity Reading Group Organizer

Summer 2015

Indiana University

Organized a graduate reading group on metacommunity ecology

COMPUTATIONAL SKILLS

Scripting	python, bash
Analysis	R, Mathematica
Productivity	L ^A T _E X, markdown, git/GitHub, Microsoft Office

PROFESSIONAL SOCIETY MEMBERSHIP

Ecological Society of America
International Society for Microbial Ecology
Association for the Sciences of Limnology and Oceanography
Society for Freshwater Sciences