

# NATHAN I. WISNOSKI

Department of Biology, Indiana University ♦ 1001 E. Third Street, Bloomington, IN 47405

wisnoski@indiana.edu ♦ [nwisnoski.github.io](https://nwisnoski.github.io)

## EDUCATION

---

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

## RESEARCH EXPERIENCE

---

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

## 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: Sokol ER, co-PIs: Swan CM, **Wisnoski NI**. \$76,000. 2016–2018.

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

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*.

Voelker, N, R. Andrade, M.C.N. Castorani, A. Compagnoni, T. Lamy, N. Lany, S. Record, C.M. Swan, J.D. Tonkin, **N.I. Wisnoski**, P.L. Zarnetske, and E.R. Sokol. In preparation. *Metacommunity ecology as a lens to interpret long-term biodiversity data*.

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*.

## 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.

**Associate Instructor.** Biology Laboratory. *Indiana University.* Fall 2014, Fall 2017.

**Grader.** Microbial Ecology. *University of Texas.* Spring 2014.

**Teaching Assistant.** Biostatistics. *University of Texas.* Spring 2013, Fall 2013.

## MENTORSHIP AND SERVICE

---

**Undergraduate STEM Mentor** Jan 2015 – Present  
Indiana University

Undergraduate Mentees: Luke Pryke, Mollie Carrison

Summer REU Program: Jaylen Beatty, Mary Wallace, Sydney Ellen Gooding

**High School STEM Mentor** Summer 2015 – Present  
Jim Holland Summer Scholars Program

High School Mentees: Dakayla Calhoun, Samuel Iwu

**High School Riverwatch Sampling Coordinator** Summer 2017 – Present  
Jim Holland Summer Enrichment Program

Supervised macroinvertebrate sampling activity with high school students to analyze stream quality

**EcoLunch Co-Organizer** August 2015 – May 2016  
Indiana University

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

---

<b>Scripting</b>	python, bash
<b>Analysis</b>	R, Mathematica, MATLAB
<b>Productivity</b>	L <sup>A</sup> T <sub>E</sub> 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