

Matthew J. Michalska-Smith

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Education

University of Chicago, Chicago, IL

Ph.D., Ecology & Evolution

Since 2013

University of Notre Dame, Notre Dame, IN

B.S., Biological Sciences and Theology

2008-12

Work Experience

Research

Laboratory Technician

U. Chicago, Dept. Ecology & Evolution, Allesina Lab

- Theoretical ecology with an emphasis on networks

2012-13

Undergraduate Researcher

U. Notre Dame, Dept. Biological Sciences, Ridenhour Lab

- Ecology and evolution of infectious disease
- Independent research topic: Influenza dynamics at Notre Dame

2011-12

Practicum in Field Environmental Biology

U. Notre Dame, PI: Ashley Baldrige, PhD Candidate, Lodge Lab

- Modules on Herpetology, Ornithology/Mammalogy, Entomology, Aquatic- and Forest Ecology
- Independent research topic: Intraspecific shelter competition among crayfish

Summer 2010

Other Work

Teaching Assistant

U. Chicago, Biological Sciences Division

- Introduction to Scientific Computing (Winter 2014, 2016)
- Ecology & Evolution Laboratory (Winter 2015)
- QBIO: quantitative biology workshop (Summer 2015)

2014-2016

Undergraduate Teaching Assistant

U. Notre Dame, Dept. Biological Sciences

- Mammalogy Laboratory course with focus on specimen identification and anatomy

Spring 2012

Laboratory Assistant

U. Notre Dame, Dept. Biological Sciences

- Tank Lab: Stream Ecology and Biogeochemistry
- Pfrender Lab: Ecological Genomics, Adaptation in Natural Populations, Plasticity

Fall 2009, Summer 2011

Single/Group Tutor

U. Notre Dame, Academic Services for Student Athletes

- Tutored Notre Dame students in Calculus through basic multivariate

2008-11

Publications & Presentations

Publications

Smith, Matthew J., Elizabeth Sander, György Barabás, and Stefano Allesina. Stability and feedback levels in food web models. *Ecology Letters*, 18(6):593–595, 2015.

Smith, Matthew J., Cody Weinberger, Emilio M. Bruna, and Stefano Allesina. The scientific impact of

nations: Journal placement and citation performance. *PLOS ONE*, 9(10):e109195, 2014.

Phillip P. A. Staniczenko, **Smith, Matthew J.**, and Stefano Allesina. Selecting food web models using normalized maximum likelihood. *Methods in Ecology and Evolution*, 5(6):551–562, 2014.

Kimbra G. Turner, **Smith, Matthew J.**, and Benjamin J. Ridenhour. Whirling disease dynamics: An analysis of intervention strategies. *Preventive Veterinary Medicine*, 113(4):457–468, 2014.

Stefano Allesina, Elizabeth Sander, **Smith, Matthew J.**, and Si Tang. Superelliptical laws for complex networks. *arXiv preprint arXiv:1309.7275*, 2013.

Papers in Progress

Phillip P. A. Staniczenko, **Smith, Matthew J.**, J. D. Farmer, and Stefano Allesina. Modelling and measuring progress in complex systems.

Phillip P. A. Staniczenko, **Smith, Matthew J.**, and Stefano Allesina. Modularity and anti-modularity in food webs.

György Barabás, **Michalska-Smith, Matthew J.**, and Stefano Allesina. The effect of intra- and interspecific competition on coexistence in multispecies communities. *American Naturalist*. In Review.

Posters & Presentations

Ecological Society of America Annual Meeting: Theoretical Ecology Session

Baltimore, MD USA

12 August 2015

- Presentation: Looking locally to see globally

ACS International Center Webinar Series

<http://www.acs.org/content/acs/en/global/international-center.html>

25 February 2015

- Webinar: Global Scientific Collaboration: Key to Scientific Success

Undergraduate Scholars Conference, College of Science Joint Annual Meeting

Notre Dame, IN USA

4 May 2012

- Poster: Modeling Seasonal Influenza in Indiana with an Age-Stratified SEIR Model

ICTP-SAIFR School on Pathogen Dynamics, Climate and Global Change

IFT-UNESP, São Paulo, Brazil

21 January 2015

- Presentation: The Scientific Impact of Nations: Journal Placement and Citation Performance

Honors & Awards

2015: NSF Graduate Research Fellowship Program Honorable Mention

2015-2018: Department of Education Graduate Assistance in Areas of National Need (GAANN) Fellow

Schools & Meetings

Ecological Society of America Annual Meeting

Baltimore, MD USA

9-14 August 2015

ICTP-SAIFR School on Pathogen Dynamics, Climate and Global Change

IFT-UNESP, São Paulo, Brazil

12-23 January 2015

Non-adaptive selection: explaining macroscopic laws in ecology and evolution

EPFL CIB, Lausanne, Switzerland

7-11 July 2014

Peer-Reviewing

- o Oikos
- o Ecology
- o Environmental Modelling & Software
- o BioScience
- o PLOS Computational Biology
- o PLOS ONE

- Journal of Forestry Research
- Scientific Reports