

# 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

*University of Chicago, Dept. Ecology & Evolution, Allesina Lab*

- Theoretical ecology with an emphasis on networks

2012-13

#### Undergraduate Researcher

*University of 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 Collegiate Division*

- Introduction to Scientific Computing

- Ecology & Evolution Laboratory

- QBIO: quantitative biology workshop

Winter 2014, 2015; Summer 2015

#### 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, **Smith, Matthew J.**, and Stefano Allesina. The effect of intra- and interspecific competition on coexistence in multispecies communities. Submitted.

## **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**

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**2015:** NSF Graduate Research Fellowship Program Honorable Mention

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

## **Schools & Meetings**

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### **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**

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- Oikos
- Ecology
- Environmental Modelling & Software
- BioScience
- PLOS Computational Biology
- PLOS ONE
- Journal of Forestry Research