Matthew J. Michalska-Smith

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Education	
University of Chicago, Chicago, IL Ph.D., Ecology & Evolution	Since 2 <u>013</u>
Adviser: Stefano Allesina	
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	2012–13
- Theoretical ecology with an emphasis on networks	
Undergraduate Researcher	
U. Notre Dame, Dept. Biological Sciences, Ridenhour Lab	2011-12
 Ecology and evolution of infectious disease Independent research topic: Influenza dynamics at Notre Dame 	
Practicum in Field Environmental Biology	g
U. Notre Dame, PI: Ashley Baldridge, PhD Candidate, Lodge Lab	Summer 2010
- Modules on Herpetology, Ornithology/Mammalogy, Entomology, Aquatic- and - Independent research topic: Intraspecific shelter competition among crayfish	Forest Ecology
Teaching	
Instructor	
U. Chicago, BSD-QBio	2015-2017
(Biological Sciences Division Quantitative Biology Boot-camp for incoming grad - Beginner/Advanced programming in the biological sciences - Statistics for large datasets	$uate\ students)$
Teaching Assistant	
U. Chicago, Biological Sciences Division	2014-2017
- Theoretical Ecology (Winter 2017)	
 Biodiversity (Spring 2016) Introduction to Scientific Computing (Winter 2014, 2016) 	
- Ecology & Evolution (Winter 2015)	
Undergraduate Teaching Assistant	
U. Notre Dame, Dept. Biological Sciences	Spring 2012
- Mammalogy Laboratory course with focus on specimen identification and anat	omy
Single/Group Tutor	2005
U. Notre Dame, Academic Services for Student Athletes	2008-11
- Tutored Notre Dame students in Calculus through basic multivariate	

Publications & Presentations

Publications...

- 1. György Barabás, **Matthew J. Michalska-Smith**, and Stefano Allesina. Self-regulation and the stability of large ecological networks. *Nature Ecology & Evolution*, 2017.
- 2. Jacopo Grilli, György Barabás, Matthew J. Michalska-Smith, and Stefano Allesina. Higher-order interactions stabilize dynamics in competitive network models. *Nature*, 548(7666):210–213, 2017.
- 3. **Matthew J. Michalska-Smith** and Stefano Allesina. And, not or: Quality, quantity in scientific publishing. *PLOS ONE*, 12(6):1–12, 2017.
- 4. **Matthew J. Michalska-Smith***, Elizabeth L. Sander*, and Stefano Allesina. Understanding the role of parasites in food webs using the group model. *Journal of Animal Ecology*, 2017. In Press.
- 5. György Barabás*, **Matthew J. Michalska-Smith***, and Stefano Allesina. The effect of intra- and interspecific competition on coexistence in multispecies communities. *The American Naturalist*, 188(1):E1–E12, 2016.
- 6. **Matthew J. Smith**, Elizabeth Sander, György Barabás, and Stefano Allesina. Stability and feedback levels in food web models. *Ecology Letters*, 18(6):593–595, 2015.
- 7. Phillip P. A. Staniczenko, **Matthew J. Smith**, and Stefano Allesina. Selecting food web models using normalized maximum likelihood. *Methods in Ecology and Evolution*, 5(6):551–562, 2014.
- 8. **Matthew J. Smith**, Cody Weinberger, Emilio M. Bruna, and Stefano Allesina. The scientific impact of nations: Journal placement and citation performance. *PLOS ONE*, 9(10):e109195, 2014.
- 9. Kimbra G. Turner, **Matthew J. Smith**, and Benjamin J. Ridenhour. Whirling disease dynamics: An analysis of intervention strategies. *Preventive Veterinary Medicine*, 113(4):457–468, 2014.
- 10. Stefano Allesina, Elizabeth Sander, **Matthew J. Smith**, and Si Tang. Superelliptical laws for complex networks. arXiv preprint arXiv:1309.7275, 2013.

Posters & Presentations.....

NetSci International School and Conference on Network Science

Indianapolis, IN USA

20 June 2017

- Presentation: Higher-order interactions stabilize dynamics in competitive network models

Ecological Society of America Annual Meetings: Species Interactions Session

Ft. Lauderdale, FL USA

9 August 2016

- Presentation: Identifying unique species roles by characterizing differences in ecological network structure

Dissertation Proposal Hearing

Chicago, IL USA

27 August 2015

- Presentation: Structure and Stability

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

https://global.acs.org/international-center-events/...

25 February 2015

- Webinar: Global Scientific Collaboration: Key to Scientific Success

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

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

^{*} These authors have contributed equally to this publication.

Funding Awarded

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

Honors & Awards

2015: NSF Graduate Research Fellowship Program Honorable Mention

Schools & Meetings

NetSci International School and Conference on Network Science

Indianapolis, IN USA 20-24 June 2017

Ecological Society of America Annual Meeting

Fort Lauderdale, FL USA 7-12 August 2016

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
- Ecology
- o Journal of Theoretical Biology
- o PLOS Computational Biology
- o BioScience

- o PLOS ONE
- Scientific Reports
- o Journal of Forestry Research
- o Frontiers in Genetics
- Scientometrics
- o Environmental Modelling & Software
- o Proceedings of the Royal Society of London B