

## **Lisa C. McManus**

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### **EDUCATION**

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- 2012-2017 Ph.D. in Ecology and Evolutionary Biology, Princeton University  
Advisor: Simon A. Levin
- 2006-2010 B.S. summa cum laude in Marine and Atmospheric Science, University of Miami

### **PROFESSIONAL EXPERIENCE**

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- 2017- Postdoctoral Associate, Department of Ecology, Evolution, and Natural Resources,  
Rutgers University. Supervisor: Malin L. Pinsky

### **HONORS AND AWARDS**

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- 2018 National Institute for Mathematical and Biological Synthesis Short-term Visit (\$2000)
- 2015 Princeton EEB Women Scientists in Conservation Biology Research Award (\$6000)
- 2015 Best Poster: NMFS-Sea Grant Fellowship Symposium
- 2014-2017 NMFS-Sea Grant Fellowship in Population and Ecosystem Dynamics (\$96,000)
- 2014-2017 National Defense Science and Engineering Graduate Fellowship (\$250,000)
- 2014 Princeton Environmental Institute Walbridge Fund Graduate Award (\$7500)
- 2013 Lerner-Gray Fund for Marine Research Award (\$1400)
- 2013 Princeton EEB Seed Grant (\$2500)
- 2013 National Science Foundation Graduate Research Fellowship – Honorable Mention
- 2012 Princeton University First Year Fellowship in Science and Engineering
- 2010 Rosenstiel School of Marine and Atmospheric Science Outstanding Student Award
- 2010 Rosenstiel School of Marine and Atmospheric Science Program Honors
- 2009 Phi Beta Kappa Honor Society
- 2008-2010 NOAA Hollings Undergraduate Scholarship

### **PUBLICATIONS**

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- McManus LC**, Watson JR, Vasconcelos VV and Levin SA. 2018. The stability and recovery of coral-algae systems: the importance of recruitment seasonality and grazing influence. *Theoretical Ecology* 10.1007/s12080-018-0388-x
- McManus LC**, Yurek S, Teare PB, Dolan TE and Serafy JE. 2014. Killifish habitat suitability as a measure of coastal restoration performance: integrating field data, behavioral trials and simulation. *Ecological Indicators* 44:173-181.
- McManus JW and **McManus LC**. 2012. Proposed Dredging for an Aircraft Carrier Turning Basin in Apra Harbor, Guam: Options for Assessment and Mitigation. Technical Report. Engineer Research and Development Center, U.S. Army Corps of Engineers. 121 pages.
- McManus LC**, Vasconcelos VV, Thompson DM, Levin SA, Kleypas JA, Castruccio FS, Curchitser EN, Watson JR. Ecological implications of thermal stress and larval connectivity in the Coral Triangle. Submitted to *Global Change Biology*.

### **MANUSCRIPTS IN PREPARATION**

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- McManus LC**, Schindler DE, Tekwa E, Walsworth TE, Forrest DL, Colton MA, Webster MS, Essington TE, Palumbi SR, Mumby PJ and Pinsky ML. Trait dispersal network structure drives eco-evolutionary dynamics under environmental change. In preparation for *Science*.
- DeFilippo LB, **McManus LC**, Pinsky ML, Colton MA, Webster MS, Essington TE, Palumbi SR, Mumby PJ and Schindler DE. Eco-evolutionary considerations for coral restoration.

Tekwa EW, **McManus LC**, Schindler DE, Tekwa E, Walsworth TE, Forrest DL, Colton MA, Webster MS, Essington TE, Palumbi SR, Mumby PJ and Pinsky ML. Mechanisms of bistability in coral-algal systems

**McManus LC**, Schindler DE, Tekwa E, Walsworth TE, Forrest DL, Colton MA, Webster MS, Essington TE, Palumbi SR, Mumby PJ and Pinsky ML. Connectivity and coral persistence: a comparison of projected coral dynamics in the Caribbean, Coral Triangle and Southwest Pacific.

**McManus LC**, Levin SA and Pinsky ML. Coral dispersal and implications for persistence in the Philippines.

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## PRESENTATIONS

- 2018 **Ecological Society of America Annual Meeting**, New Orleans, LA. Invited talk. Spatial marine metacommunity connectivity and the response of the Coral Triangle to climate change.
- 2018 **Ocean Sciences Meeting**, Portland, Oregon. Contributed talk. Ecological implications of thermal stress and larval connectivity in the Coral Triangle.
- 2016 **International Coral Reef Symposium**, Honolulu, HI. Contributed talk. Larval dispersal as a mechanism for coral persistence on reef communities.
- 2015 **Ecological Society of America Annual Meeting**, Baltimore, MD. Contributed talk. Larval dispersal as a mechanism for coral persistence on reef metacommunities.
- 2015 **Pacific Islands Fisheries Science Center**, Honolulu, HI. Invited talk. Linking dispersal scales, genetic differentiation and persistence in corals.
- 2015 **National Marine Fisheries Service – SeaGrant Fellows Symposium**, Miami, FL. Poster presentation. Linking dispersal scales, genetic differentiation and persistence in corals.
- 2013 **Student Conference on Conservation Science**, New York, NY. Poster presentation. Modeling fine-scale coral connectivity on the Bermuda platform.
- 2013 **Princeton University-Marine Biology (EEB 312)**, Bermuda Institute of Ocean Sciences, St. George's, Bermuda. Guest lecture. Connectivity of Marine Ecosystems.

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## TEACHING EXPERIENCE

<b>New Brunswick High School STEM Club</b> <i>Volunteer Instructor for Agent-based Modeling Class</i> Facilitated NetLogo programming lessons to members of the Science, Technology, Engineering and Math Club	New Brunswick High School New Brunswick, NJ Feb – April 2018 Contact: Rebecca Donatelli
<b>Department of Ecology and Evolutionary Biology</b> <i>Assistant in Instruction for EEB 312 Marine Biology</i> Conducted precepts and facilitated marine science field and laboratory experiments.	Princeton University and Bermuda Institute of Ocean Sciences St. George's, Bermuda May – June 2013 Supervisors: James Gould and Samantha de Putron
<b>Department of Ecology and Evolutionary Biology</b> <i>Assistant in Instruction for EEB 211 Life on Earth</i> Presented lectures and facilitated biology laboratory experiments	Princeton University Princeton, NJ Sept. 2012 – Jan. 2013 Supervisors: Daniel Rubenstein and Stephen Pacala

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## ADVISING EXPERIENCE

**Princeton University** Princeton, NJ  
Beth McKenna, undergraduate senior thesis (2012-2014)  
Clare Gallagher, undergraduate senior thesis (2012-2014)

### **ADDITIONAL TRAINING**

June 2014      Methods in Ecological Genome Analysis: Whole-genome genotyping with 2bRAD workshop led by Mikhail Matz (University of Texas), Summerland Key FL

### **PROFESSIONAL ASSOCIATIONS**

International Society for Reef Studies, Ecological Society of America, Association for the Sciences of Limnology and Oceanography

### **SKILLS**

Scientific Diver: 300+ logged scientific dives  
Programming languages – Python, Mathematica, MATLAB  
Foreign languages – Filipino (native)

### **SERVICE**

**Princeton University** Princeton, NJ  
*Organizer* Theoretical Ecology Lab Tea Seminar Series (2013-2014)  
*Organizer* Conservation Book Club (2013-2015)  
*Reviewer* American Naturalist, Theoretical Ecology