# Lisa C. McManus

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## EDUCATION

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| 2012-2017 | Ph.D. in Ecology and Evolutionary Biology, Princeton University<br>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

**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, Levin SA, Thompson DM, 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

**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 reef 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**, Vasconcelos VV, Levin SA, Santos, FP, Thompson DM, 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.

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

## 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.

## TEACHING EXPERIENCE

**New Brunswick High School STEM Club**
*Volunteer Instructor for Agent-based Modeling Class*
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

**Department of Ecology and Evolutionary Biology**
*Assistant in Instruction for EEB 312 Marine Biology*
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

**Department of Ecology and Evolutionary Biology**
*Assistant in Instruction for EEB 211 Life on Earth*
Presented lectures and facilitated biology laboratory experiments

Princeton University
Princeton, NJ
Sept. 2012 – Jan. 2013
Supervisors: Daniel Rubenstein and Stephen Pacala

## 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

*Mentor*, Rutgers Future Scholars Internship, Rutgers University (2018)
*Volunteer Instructor*, New Brunswick High School STEM Club (2018)
*Organizer,* Theoretical Ecology Lab Tea Seminar Series, Princeton University (2013-2014)
*Organizer,* Conservation Book Club, Princeton University (2013-2015)
*Reviewer,* American Naturalist, Theoretical Ecology