

# Michael J. McCann

The Nature Conservancy  
322 8<sup>th</sup> Avenue, 16<sup>th</sup> Floor  
New York, NY 10001

Tel: (845) 546-8264  
michael.mccann@tnc.org  
mccannecology.weebly.com

---

## EMPLOYMENT

---

THE NATURE CONSERVANCY, New York, NY 2016 – Present  
NYC Urban Program  
Urban Marine Ecologist

RUTGERS UNIVERSITY, New Brunswick, NJ 2015 - 2016  
Department of Marine and Coastal Science  
Postdoctoral Research Associate  
Supervisor: Dr. Olaf Jensen

---

## EDUCATION

---

STONY BROOK UNIVERSITY, Stony Brook, NY 2008 - 2015  
Department of Ecology and Evolution, Ph.D.  
Advisor: Dr. Dianna K. Padilla  
Dissertation: “Ecological tipping points in freshwater lakes and ponds”

UNIVERSITY OF NOTRE DAME, Notre Dame, IN 2004 - 2008  
Environmental Science, B.S.  
Advisor: Dr. David Lodge

---

## PUBLICATIONS

- 
- McCann, M.J.** Evidence of alternative states in freshwater lakes: A spatially-explicit model of submerged and floating plants. *Ecological Modelling* 337: 298-308.
- McCann, M.J.** 2016. Response diversity of free-floating plants to nutrient stoichiometry and temperature: Growth and resting body formation. *PeerJ* 4:e1781.
- McCann, M.J.** and D.K. Padilla. 2015. Effects of a patchy food environment across life history stages. *Journal of Experimental Marine Biology and Ecology* 472: 135-141.
- McCann, M.J.** 2015. Local and regional determinants of an uncommon functional group in freshwater lakes and ponds. *PLoS ONE* 10: e0131980.
- Padilla, D.K., **M.J. McCann**, M. McCarty-Glenn, A. Hooks, and S. Shumway. 2014. Effect of food on metamorphic competence in the model system, *Crepidula fornicata*. *Biological Bulletin* 227: 242-251.
- McCann, M.J.** 2014. Population dynamics of the non-native freshwater gastropod, *Cipangopaludina chinensis* (Viviparidae): A capture-mark-recapture study. *Hydrobiologia* 730: 17-27.
- McCann M.J.** 2013. Book review of Small Impoundment Management in North America. Edited by J. Wesley Neal and David W. Willis. *The Quarterly Review of Biology* 88: 240.

Padilla, D.K., **M.J. McCann**, and S.E. Shumway. 2011. Marine invaders and bivalve aquaculture: Sources, impacts and consequences IN: *Shellfish Aquaculture and the Environment* Ed. S.E. Shumway, Wiley-Blackwell.

*In Review*

**McCann, M.J.** *et al.* Key taxa in food web responses to stressors: The *Deepwater Horizon* Oil Spill

Flenniken, M., **M.J. McCann** and N. Cloduis. Biogeographic patterns of reproduction and growth in a globally introduced sea anemone.

**McCann, M.J.** *et al.* Trophic enrichment factors of stable isotopes and fatty acid biomarkers in the blue crab, *Callinectes sapidus*.

**PRESENTATIONS**, first author presentations only (\* indicates poster)

---

**McCann, M.J.**, *et al.* Identifying key species in the response of marsh food webs to the Deepwater Horizon Oil Spill. Ecological Society of America Annual Meeting, Fort Lauderdale, FL, August 2016.

**McCann, M.J.**, *et al.* Identifying key species in the response of marsh food webs to the Deepwater Horizon Oil Spill. Gulf of Mexico Oil Spill & Ecosystem Science Conference, Tampa, FL, February 2016.

**McCann, M.J.** The BP Deepwater Horizon Oil Spill and Modern Food Web Ecology. Department of Marine and Coastal Sciences Invited Seminar. November 2015.

**McCann, M.J.** Effects of community and ecosystem properties on an alternative state: A simulation model. Ecological Society of American Annual Meeting, Baltimore, MD, August 2015.

**McCann, M.J.** Local and regional determinants of an uncommon functional group. Dept. of Ecology & Evolution Annual Retreat. Stony Brook, NY, March 2015.

**McCann, M.J.** Ecosystem size and species occurrence limit an alternative state in freshwater lakes and ponds. Joint Aquatic Sciences Meeting, Portland, OR, May 2014.

**McCann, M.J.** Multiple levels of ecological organization determine susceptibility to critical transitions. Ecological Society of American Annual Meeting, Minneapolis, MN, August 2013.

**McCann, M.J.** Nutrient stoichiometry, species traits, and regime shifts in freshwater ponds. Society of Integrative and Comparative Biology Annual Meeting, San Francisco, CA, January 2013. [*Finalist – Raymond B. Huey Best Student Poster Competition*]

**McCann, M.J.** Using aquatic plants to understand community regime shifts. Ecological Society of America Annual Meeting, Portland, OR. August 2012.

**McCann, M.J.** Using aquatic plants to understand community regime shifts. Stony Brook University Dept. of Ecology & Evolution Annual Retreat. Stony Brook, NY, March 2012. [*Won the Cedar Brook Award for Best Talk*]

**McCann, M.J.** Using mark-recapture to study the population biology of a non-native aquatic invader. Society of Integrative and Comparative Biology Annual Meeting, Salt Lake City, UT, January 2011.\*

**McCann, M.J.** The cost-effective management of aquatic invasive plants. University of Notre Dame College of Science Joint Annual Meeting. Notre Dame, IN, May 2008.

**McCann, M.J.,** R.P. Keller, A.M. Deines, and D.M. Lodge. Controlling invasive aquatic plants: How much could we spend? How much should we spend? Ecological Society of America Annual Meeting, Milwaukee, WI, August 2008.

## **TEACHING**

---

### ***Awards***

Best Teaching Assistant, Dept. of Ecology & Evolution (SBU) 2015

### ***Instructor***

Introduction to R for Statistical Computing (SBU), *two-day workshop* Winter 2015

Organisms to Ecosystems (SBU), introductory ecology & evolution, *online* Summer 2014

Invertebrate Zoology (SBU), *lecture & lab* Fall 2013

### ***Teaching Assistantships***

Biometry (SBU), *graduate-level* Spring 2015

Applied Ecology and Conservation Biology (SBU) Spring 2014

Ecology (SBU) Fall 2012

Invertebrate Zoology (SBU) Fall 2010, Fall 2011, Fall 2014

General Ecology (SBU), *non-majors* Spring 2010

Organisms to Ecosystems (SBU) Fall 2009

The Living World (SBU) Fall 2008, Spring 2009

Practicum in Field Biology (University of Notre Dame) Summer 2008

### ***Guest Lectures***

“Invertebrates and Plankton” Stony Brook-Millstone Watershed Center Spring 2016

“Wet and Wild Pond Life” Frank Melville Memorial Park Foundation Summer 2011

“Lophotrochozoans” Organisms to Ecosystems (SBU) ~575 students enrolled. Fall 2009

## **ADVISING**

---

*High School Students:* more than 11 students since 2010

*Undergraduates:* more than 25 students since 2010

## **FELLOWSHIPS AND AWARDS**

---

ASLO Student Travel Grant (\$500) 2014

Department of Ecology & Evolution Departmental Excellence in Research Award (\$750) 2014

The Lawrence B. Slobodkin Graduate Research Fund (\$2600) 2009 – 2013

ESA Aquatic Section Travel Award (\$300) 2012

Friday Harbor Laboratories Summer Scholarship (\$2500) 2009

Stony Brook University Graduate Dean’s Fellowship for Professional Activities (\$250) 2009

Univ. of Notre Dame College of Science Travel Grant for Undergrad Researchers (\$500) 2008

University of Notre Dame, Hank Family Biological Science Fellowship 2006, 2007

## **PROFESSIONAL SOCIETIES**

---

Association for the Sciences of Limnology & Oceanography 2014 - Present

Ecological Society of America 2012 - Present

Society of Integrative and Comparative Biology 2009 - Present

## **REVIEWING**

---

Journal of Applied Ecology, Estuaries & Coasts, Journal of Experimental Marine Biology and Ecology, The Southwestern Naturalist, Journal of Shellfish Research (*with DK Padilla*), Limnology & Oceanography (*with DK Padilla*), Marine Ecology Progress Series (*with DK Padilla*), Water South Africa (*with DK Padilla*)

## **SERVICE**

---

Gowanus Canal Conservancy	2016 - Present
Volunteer Judge, Long Island Science & Engineering Fair (LISEF)	2012 - 2014
Prospective Student Hospitality Committee Chair, Ecology & Evol. Dept. Retreat	2009 - 2010

## **REFERENCES**

---

Available upon request