

# Jennifer Hoey

Graduate Program in Ecology and Evolution • Environmental and Natural Resources Building  
14 College Farm Road, 1st Floor • New Brunswick, NJ 08901 • (619) 987-3334 • jennifer.hoey@rutgers.edu

## EDUCATION:

---

### **Rutgers University** (2014 – present)

PhD candidate, Graduate Program in Ecology and Evolution

Advisor: Malin Pinsky

### **University of California, Berkeley** (2006 – 2010)

B.A. with Distinction in Integrative Biology

## RESEARCH INTERESTS:

---

Marine ecology, adaptation, evolution, climate change, ocean acidification, connectivity, conservation, science education

## RESEARCH EXPERIENCE:

---

### **Graduate Assistant/Fellow**

*August 2014-present*

Pinsky Lab, Rutgers University

**Project:** Adaptation and evolutionary potential in light of anthropogenic stressors in the ocean

### **Field Assistant in Trinidad & Tobago**

*September 2011-June 2012*

Reznick Lab, University of California Riverside

**Project:** Evo-eco feedback interactions between guppies (*Poecilia reticulata*), killifish (*Rivulus hartii*) and their environment in Trinidadian streams

### **AmeriCorps Volunteer**

*September 2010-August 2011*

University of California Cooperative Extension – Sonoma County & Conservation Corps North Bay, Santa Rosa, CA

**Project:** Monitoring and restoration of the endangered Coho salmon in the Russian River Basin

### **Undergraduate Researcher**

*September 2009-May 2010*

Roderick Lab, University of California Berkeley

**Project:** Parrotfish population biology of the Indo-Pacific using microsatellites

### **NOAA Summer Intern**

*May 2009-July 2009*

Fishery Resource Analysis and Monitoring Division, NOAA Northwest Fisheries Science Center, Oregon  
State University Hatfield Marine Science Center, Newport, OR

**Project:** Life history characteristics of the curlfin sole (*Pleuronichthys decurrens*) along the U.S. West Coast

### **Undergraduate Field Researcher**

*August 2008-December 2008*

Biology and Geomorphology of Tropical Islands Field Course, University of California Berkeley Richard B. Gump South Pacific Research Station, Mo'orea, French Polynesia

**Project:** The effect of herbivory by the long-spined sea urchin, *Diadema savignyi*, on algae growth in the coral reefs of Mo'orea, French Polynesia

### **NSF Research Experiences for Undergraduates Summer Intern**

*June 2008-August 2008*

Gaylord & Sanford Labs, University of California Davis Bodega Marine Laboratory

**Project:** The effect of ocean acidification on larval growth in the native oyster *Ostrea lurida*

JENNIFER HOEY

Updated 1/2019

Page 1 of 5

**NOAA Summer Volunteer**

May 2007-August 2007

Fisheries Research Division, NOAA Southwest Fisheries Science Center, La Jolla, CA

**Project:** Population structure of shortfin mako shark, *Isurus oxyrinchus*, in the Pacific as inferred through mtDNA**GRANTS:**

---

2018 - 2020 New Jersey Sea Grant. "Quantifying the effects of a changing climate on summer flounder recruitment." Pinsky, M.L., J.A. Hoey, R.C. Chambers. \$139,859

**PUBLICATIONS:**

---

**Hoey, J.A.** and M.L. Pinsky. 2018. Genomic signatures of environmental selection despite near panmixia in summer flounder. *Evolutionary Applications* 11(9): 1732-1747. <https://doi.org/10.1111/eva.12676>

Hettinger, A., E. Sanford, T.M. Hill, A.D. Russell, K.N.S. Sato, **J. Hoey**, M. Forsch, H.N. Page, and B. Gaylord. 2012. Persistent carry-over effects of planktonic exposure to ocean acidification in the Olympia oyster. *Ecology* 93(12): 2758-2768. <https://doi.org/10.1890/12-0567.1>

**PRESENTATIONS:**

---

**Hoey, J.** & M.L. Pinsky. 2018. Genomic signatures of environmental selection despite near-panmixia in summer flounder. *Flatfish Biology Conference*. Westbrook, CT.

**Hoey, J.** & M.L. Pinsky, K.W. Able and F.J. Fodrie. 2018. Understanding population connectivity in summer flounder using natural tags. *Rutgers University Ecology & Evolution Graduate Student Association Seminar*. New Brunswick, NJ.

DiLorenzo, M.\*, **J. Hoey**, M.L. Pinsky, K.W. Able and F.J. Fodrie. 2018. The effects of temperature on size and development of larval summer flounder. *American Fisheries Society Meeting*. Atlantic City, NJ. Poster.

\* indicates undergraduate presenter

**Hoey, J.A.** and M.L. Pinsky. 2018. Genomic signatures of environmental selection despite near panmixia in summer flounder. *2<sup>nd</sup> Joint Congress on Evolutionary Biology Meeting*. Montpellier, France. Poster.

Roble, C, **J. Hoey**, and R Castro-Diephouse. 2018. Strategic Framing for Climate Change Communicators. *Philadelphia Climate Urban Systems Partnerships Workshop*. Philadelphia, PA.

**Hoey, J.** 2018. Understanding the impacts of climate change on the distribution, population connectivity, and fisheries for summer flounder (*Paralichthys dentatus*) in the Mid-Atlantic. *New Jersey Sea Grant Consortium Quarterly Extension Meeting*. Sandy Hook, NJ.

**Hoey, J.** & M.L. Pinsky. 2018. Genomic signatures of environmental selection despite near-panmixia in summer flounder. *Rutgers University Ecology & Evolution Graduate Student Association Seminar*. New Brunswick, NJ.

**Hoey, J.** & M.L. Pinsky. 2018. Genomic signatures of environmental selection despite near-panmixia in summer flounder. *New York Area Population Genomics Workshop*. Cold Spring Harbor, NY.

**Hoey, J.** 2017. Communicating climate change using the strategic framing of the National Network for Ocean and Climate Change Interpretation (NNOCCI). *Gathering of Rutgers Earth, Environmental & Natural Sciences (GREENS) Monthly Meeting*. New Brunswick, NJ.

- Hoey, J.** M.L. Pinsky, K.W. Able, F.J. Fodrie. 2017. Natural history collections and genomics reveal cryptic northward movement of a marine fish. *Ecological Society of America (ESA) Annual Meeting*. Portland, OR.
- DiLorenzo, M. \*, **J. Hoey**, M.L. Pinsky, K.W. Able and F.J. Fodrie. 2017. Using natural history collections to understand climate impacts on a widespread marine fish. *Rutgers University Aresty Undergraduate Research Symposium*. Piscataway, NJ. Poster.  
\* indicates undergraduate presenter
- Hoey, J.** 2017. How are species responding to climate change & how do we study that? *NNOCCI Seminar*. New Haven, CT.
- Hoey, J.** 2017. Combining natural history collections & genomics to study climate impacts on species. *Rutgers University Ecology & Evolution Graduate Student Association Seminar*. New Brunswick, NJ.
- Hoey, J.** and M.L. Pinsky. 2016. Candidate loci under selection in a panmictic marine population. *The American Genetic Association President's Symposium - "Local adaptation: from phenotype to genotype to fitness."* Pacific Grove, CA. Poster.
- Hoey, J.** 2016. Is population structure in summer flounder a fluke? *Rutgers University Ecology & Evolution Graduate Student Association Seminar*. New Brunswick, NJ.
- Hoey, J.**, M.L. Pinsky, K.W. Able and F.J. Fodrie. 2015. Understanding the impacts of climate change on population connectivity. *Student Conference on Conservation Science Meeting*. New York, NY. Speed Talk.
- Hoey, J.**, M.L. Pinsky, K.W. Able and F.J. Fodrie. 2015. Understanding the impacts of climate change on population connectivity. *Ecological Society of America (ESA) Annual Meeting*. Baltimore, MD. Poster.
- Hoey, J.**, T. Spaulding, M. Obedzinski, N. Bauer, S. Nossaman and H. Fett. 2011. Coho Monitoring and Restoration in the Russian River Basin. *American Fisheries Society Meeting: California-Nevada Chapter*. Folsom, CA. Poster.
- Hoey, J.** and A. Keller. 2009. Life history characteristics of the curlfin sole (*Pleuronichthys decurrens*) along the U.S. West Coast. *NOAA Hollings Scholarship Summer Research Symposium*. Silver Spring, MD.
- Hoey, J.** 2008. The effect of herbivory by the long-spined sea urchin, *Diadema savignyi*, on algae growth in the coral reefs of Moorea, French Polynesia. *Biology and Geomorphology of Tropical Islands Research Symposium*. Berkeley, CA.  
**Paper:** <http://www.escholarship.org/uc/item/7xj4g5dm>
- Hettinger, A., **J. Hoey**, E. Sanford, B. Gaylord, T.M. Hill, A.D. Russell. 2008. Ocean acidification reduces larval and juvenile growth in the Olympia oyster (*Ostrea lurida*). *American Geophysical Union (AGU) Fall Meeting*. San Francisco, CA. Poster.
- Hettinger, A., **J. Hoey**, E. Sanford, B. Gaylord, T.M. Hill, A.D. Russell. 2008. Ocean acidification impacts larval and juvenile growth in the native oyster *Ostrea lurida*. *89th Annual Western Society of Naturalists Meeting*. Vancouver, British Columbia.

Hettinger, A., **J. Hoey**, E. Sanford, B. Gaylord, T.M. Hill, A.D. Russell. 2008. Bodega Ocean Acidification Research (B.O.A.R.). *Friday Harbor Laboratory Research Symposium: Planning for Research, Monitoring, and Policy Responses to Ocean Acidification in the Northeastern Pacific*. Friday Harbor, WA. Poster.

**Hoey, J.**, A. Hettinger, E. Sanford, B. Gaylord, T.M. Hill, and A.D. Russell. 2008. The effect of ocean acidification on larval growth in the native oyster *Ostrea lurida*. *Summer Research Experiences for Undergraduates (REU) Symposium*. Bodega Bay, CA. Presentation and Poster.

## **TEACHING EXPERIENCE:**

---

### **Teaching Assistant**

*September 2018-present*

Rutgers University, New Brunswick, NJ

- Principles of Biology 01:119:103
- Biology Research Laboratory 01:119:117

### **Restoration Technician**

*August 2013-June 2014*

Acterra: Action for a Healthy Planet (currently Grassroots Ecology), Palo Alto, CA

- Developed and executed citizen-science-based water quality monitoring programs in local creeks
- Led and managed volunteers assisting with restoration efforts along neighborhood creeks
- Guided volunteers assisting with tasks at a native plant nursery

### **AmeriCorps Volunteer**

*October 2012-August 2013*

Farallones Marine Sanctuary Association & Watershed Stewards Project, San Francisco, CA

- Led, coordinated and educated students assisting with hands-on watershed restoration projects
- Developed and implemented classroom watershed education for low-income students

### **AmeriCorps Volunteer**

*September 2010-August 2011*

University of California Cooperative Extension – Sonoma County & Conservation Corps North Bay, Santa Rosa, CA

- Developed and presented lessons about salmonid lifecycles, habitat requirements and anthropogenic impacts to 3<sup>rd</sup> graders

### **Sea Education Association Housing Leader**

*August 2010*

Science at Sea Summer Program for High School Students, Sea Education Association, Woods Hole, MA

- Designed and conducted an ocean acidification workshop
- Tutored students in oceanography and maritime studies

### **Undergraduate Student Presenter**

*January 2010-May 2010*

Communicating Ocean Science to Informal Audiences, University of California Berkeley Lawrence Hall of Science

- Designed and presented climate change activities on the museum floor

## **EXTRACURRICULARS & PROFESSIONAL ACTIVITIES:**

---

2018 - 2019	Science Partnership Committee, NNOCCI
2017	Meeting Mentor, ESA SEEDS
2017	Marine Science Mentor, GOALS for Girls Summer Intensive Program
2017	Science Fellow, National Network for Ocean and Climate Change Interpretation (NNOCCI)
2017	Organizing Committee, Rutgers Ecology & Evolution Prospective Student Visit
2016 - 2018	Vice President, Rutgers University Ecology & Evolution Graduate Student Association
2015 - 2017	Member, Ecological Society of America
2015 - 2018	Member, Rutgers University Ecology & Evolution Diversity Focus Group

JENNIFER HOEY

Updated 1/2019

Page 4 of 5

- 2015 Member, Rutgers University Ecology & Evolution Graduate Student Association Fundraising Committee
- 2015 Participant, Cluster of Excellence COTE Summer School - Ecology and society: Biodiversity and global change, Bordeaux, France
- 2015 - 2019 Volunteer, Regional Shore Bowl at Rutgers University, New Brunswick, NJ
- 2013 - 2014 Volunteer Diver, California Academy of Sciences, San Francisco, CA

---

**FELLOWSHIPS & AWARDS:**

- 2018 Rutgers School of Graduate Studies Conference Travel Award
- 2016 Manasquan River Marlin & Tuna Club Burlew Scholarship
- 2016 Rutgers Graduate School New Brunswick Conference Travel Award
- 2016 Rutgers Climate Institute Student Support Fund
- 2015 Rutgers TA/GA Professional Development Fund
- 2015 - 2018 NSF Graduate Research Fellowship
- 2014 GAANN Fellowship (offered but declined)
- 2008 - 2010 NOAA Hollings Undergraduate Scholar

---

**HONORS:**

College of Letters and Science Dean's List, University of California Berkeley (2008)