

Jenna L. Pearson

Broadly, my interests are at the intersection of physical oceanography and biogeochemistry. I use statistical methods paired with models, observations, and theory to understand the transport and fate of tracers like oil, pathogens, and nutrients in the upper and coastal ocean, with emphasis on submesoscales.



Connect with me at jenna_pearson@brown.edu

Education



PhD in Earth, Environmental and Planetary Sciences

Advisor: Prof. Baylor Fox-Kemper

2015-Expected 2020

Brown University



B.A. in Mathematics

Advisor: Prof. Lidia Filus

2008-2014

Northeastern Illinois University



B.A. in Earth Science

Advisor: Prof. Ken Voglesonger

2008-2014

Northeastern Illinois University

Professional & Teaching Experience



Graduate Research Assistant

Advisor: Prof. Baylor Fox-Kemper

Fall 2015-Present

Brown, University

Models, observations, and theory to isolate statistical biases and benefits of surface drifters in the coastal ocean.



Instructor for Summer @ Brown

Studying the Ocean from Blackboard to the Bay

Summer 2020

Brown University



Course Designer and Co-instructor for Summer @ Brown

Studying the Ocean from Blackboard to Drones

Summer 2018 & 2019

Brown University



Graduate Teaching Assistant

Intro. to Oceanography under Prof. Steve Clemens

Spring 2019

Brown University



Graduate Teaching Assistant

Global Climate & Weather under Prof. Amanda Lynch

Fall 2017

Brown University



Undergraduate Researcher

Advisor: Prof. Björn Sandstede, Division of Applied Mathematics

Summer 2014

Analysis of data assimilation and parameter estimation schemes

Brown University



Undergraduate Researcher

Advisor: Prof. Alkes Price, Department of Epidemiology

Statistical methods to infer consistency across populations of genetic variants associated with type-II diabetes

Summer 2013

Harvard University

Awards & Honors

Funding

Brown Fellow, Brown University	2015-2016
NSF MaPs Scholar, Northeastern Illinois University	2012-2014
First Sergeant Council Scholarship, ILARNG	2011

Honors

Tse Cheuk Ng Tai Innovations in Fluids and Health 2019 Award [Article]	07/26/2019
GoMRI Scholar, Gulf of Mexico Research Initiative [Article]	2018
Deans List, Northeastern Illinois University	2008-2014
Women in Mathematics, Northeastern Illinois Univ.	2013
Army Achievement Medal, ILARNG	2011
Army Achievement Medal, ILARNG	2011
Command Sergeant Major's Award, ILARNG	2009
National Service Award, ILARNG	2006

Travel Grants

Fluids and Health 2019 Junior Researcher Fellowship	2019
Brown University Graduate School Conference Travel Grant	2019
Brown University Graduate School International Travel Grant	2019
National Institute for Mathematical and Biological Synthesis Travel Grant	2013
Society for Advancement of Chicanos and Native Americans in Science Travel Grant	2012

Skills & Training

2008-Present







Computer Languages:

Matlab, Python, R, Java and LATEX



Consortium for Advanced Research on Transport of Hydrocarbon in the Environment III
2 weeks launching driftcards in the Gulf of Mexico shelf area and optimizing plate detection algorithms.

Spring 2017
Grand Isle, LA

	Community Earth System Model (CESM) Tutorial 2019 1 week of lecture and hands on activities to learn to operate CESM.	08/05-08/09 2019 NCAR, CO
	Cornell Satellite Remote Sensing Training Program 2 week summer course on remote sensing with a focus on ocean color.	06/03-06/14 2019 Ithaca, NY
	American Institute of Biological Sciences & RI NSF EPSCoR/RI C-AIM Enabling Interdisciplinary and Team Science Workshop	Feb 2019 Kingston, RI
	The Harriet W. Sheridan Center for Teaching and Learning Certificate I: Reflective Teaching	Fall 2018 Providence, RI
	GODAE Oceanview International School New frontiers in operational oceanography	Fall 2017 Mallorca, Spain
	Northeastern Illinois University Field School 2 weeks producing detailed geologic maps, stereonets, and reports on geomorphological and glacial features of a syncline area	Summer 2014 Baraboo, WI

Service & Outreach

Contributions

Big Bang Science Fair Demonstrator, Waterfire in Providence, RI	Sept 2019
Career Day Geosciences Speaker, Lincoln Middle School	Apr 2019
GradCon Coordinator, Brown University	Aug 2018
Elementary School Science Instructor, Vartan Gregorian Elementary	2015-2016
GRE Math Preparation Course Instructor, Northeastern Illinois University	Aug 2015
EMERGE Peer Leader, Northeastern Illinois University	Jul-Aug 2015
Mathematics Enrichment Workshop Program Peer Leader, Northeastern Illinois Univ.	2010-2012
CLS Coordinator and Instructor, ILARNG	2009-2011

Reviews

Reviewer, Ocean Science	2019-Present
Reviewer, Journal of Physical Oceanography	2019-Present
Reviewer, Journal of Fluid Mechanics	2018-Present
Expert Reviewer, Intergovernmental Panel on Climate Change	2018-2019

Departmental Service

International Graduate Student Mentor, Brown University	2017-Present
First Year Graduate Student Mentor, Brown University	2017-Present
Geoclub Treasurer, Brown University	2016-2017

Professional Memberships

American Meteorological Society	2018-Present
American Geophysical Union	2018-Present
Graduate Women in Science & Engineering	2015-Present
Association for the Sciences of Limnology and Oceanography	2015-Present