

layout: splash title: "Curriculum Vitae" #author\_profile: true permalink: /cv/ classes:  
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# 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](mailto: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*  
Models, observations, and theory to isolate statistical biases and benefits of surface drifters in the coastal ocean.

Fall 2015-Present  
*Brown, University*



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  
*Analysis of data assimilation and parameter estimation schemes  
 applied to traffic models*

Summer 2014  
*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 [ <a href="#">Article</a> ]	07/26/2019
GoMRI Scholar, Gulf of Mexico Research Initiative [ <a href="#">Article</a> ]	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