layout: splash title: "Curriculum Vitae" #author_profile: true permalink: /cv/ classes: wide header: overlay_filter: "0.5" overlay_image: /assets/images/ocean_eddies.jpg

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		2015-Expected 2020
Advisor: Prof. Baylor Fox-Kemper		*Brown University*
B.A. in Mathematics		2008-2014
Advisor: Prof. Lidia Filus		*Northeastern Illinois University*
B.A. in Earth Science		2008-2014
Advisor: Prof. Ken Voglesonger		*Northeastern Illinois University*

Professional & Teaching Experience

Graduate Research Assistant		Fall 2015-Present
Advisor: Prof. Baylor Fox-Kemper		*Brown, University*
Models, observations, and theory to isolate statistical biases and benefits of surface drifters in the coastal ocean.		
Instructor for Summer @ Brown		Summer 2020
Studying the Ocean from Blackboard to the Bay		*Brown University*
Course Designer and Co-instructor for Summer @ Brown		Summer 2018 & 2019
Studying the Ocean from Blackboard to Drones		*Brown University*

	Graduate Teaching Assistant	Spring 2019
	Intro. to Oceanography under Prof. Steve Clemens	*Brown University*
	Graduate Teaching Assistant	Fall 2017
	Global Climate & Weather under Prof. Amanda Lynch	*Brown University*
	Undergraduate Researcher	Summer 2014
	Advisor: Prof. Björn Sandstede, Division of Applied Mathematics	*Brown University*
	Analysis of data assimilation and parameter estimation schemes	
	applied to traffic models	
	Undergraduate Researcher	Summer 2013
	Advisor: Prof. Alkes Price, Department of Epidemiology	*Harvard University*
	Statistical methods to infer consistency across populations of genetic	
	variants associated with type-II diabetes	

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   08/05-08/09 2019
1 week of lecture and hands on activities to learn to operate CESM.   *NCAR, CO*

Cornell Satellite Remote Sensing Training Program   06/03-06/14 2019
2 week summer course on remote sensing with a focus on ocean color.   *Ithaca, NY*

American Institute of Biological Sciences & RI NSF EPSCoR/RI C-AIM   Feb 2019
Enabling Interdisciplinary and Team Science Workshop   *Kingston, RI*

The Harriet W. Sheridan Center for Teaching and Learning   Fall 2018
Certificate I: Reflective Teaching   *Providence, RI*

GODAE Oceanview International School   Fall 2017
New frontiers in operational oceanography   *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
Career Day Geosciences Speaker, Lincoln Middle School
GradCon Coordinator, Brown University
Elementary School Science Instructor, Vartan Gregorian Elementary
GRE Math Preparation Course Instructor, Northeastern Illinois University
EMERGE Peer Leader, Northeastern Illinois University
Mathematics Enrichment Workshop Program Peer Leader, Northeastern Illinois Univ.
CLS Coordinator and Instructor, ILARNG

Sept 2019
Apr 2019
Aug 2018
2015-2016
Aug 2015
Jul-Aug 2015
2010-2012
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