
layout: splash
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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
Statistical methods paired with models, observations, and theory
to isolate biases in quasi-Lagrangian observation platforms and
reactive-tracer fields in the presence of turbulence

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, [Tse Cheuk Ng Tai Innovation Fund](#)

GoMRI Scholar, Gulf of Mexico Research Initiative [[Article](#)]

Deans List, Northeastern Illinois University

Women in Mathematics, Northeastern Illinois University

Army Achievement Medal, ILARNG

Army Achievement Medal, ILARNG

Command Sergeant Major's Award, ILARNG

National Service Award, ILARNG

07/26/2019

2018

2008-2014

2013

2011

2011

2009

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

Computer Languages: Matlab, Python, R, Java and LATEX

2008-Present



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, stereonet, 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 University
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
