
layout: splash
title: "Curriculum Vitae"
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Education



BROWN

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

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

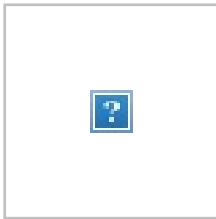
Travel Grants

| | |
|--|------|
| 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

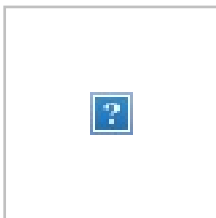
Computer Languages: Matlab, Python, R, Java and LATEX

2008-Present



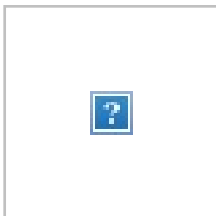
Consortium for Advanced Research on Transport of Hydrocarbon in the Environment III
2 weeks launching driftcards in the Gulf of Mexico shelf area and optimizing plate detection algorithms.

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



nsf_logo.png

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

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|--|--------------|
| 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

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|--|--------------|
| 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 |
