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## Education

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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

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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*

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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

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# 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*

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# Service & Outreach

## Contributions

Big Bang Science Fair Demonstrator, Waterfire in Providence, RI  
Career Day Geosciences Speaker, Lincoln Middle School  
GradCon Coordinator, Brown University

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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

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## 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

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