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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



**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

## 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	07/26/2019
GoMRI Scholar, Gulf of Mexico Research Initiative [Article]	2018
Deans List, Northeastern Illinois University	2008-2014
Women in Mathematics, Northeastern Illinois University	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	
Society for Advancement of Chicanos and Native Americans in Science Travel Grant	

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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

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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  
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  
Reviewer, Journal of Physical Oceanography  
Reviewer, Journal of Fluid Mechanics  
Expert Reviewer, Intergovernmental Panel on Climate Change  
2019-Present  
2019-Present  
2018-Present  
2018-2019

### Departmental Service

International Graduate Student Mentor, Brown University

First Year Graduate Student Mentor, Brown University  
Geoclub Treasurer, Brown University

2017-Present  
2017-Present  
2016-2017

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## Professional Memberships

American Meteorological Society  
American Geophysical Union  
Graduate Women in Science & Engineering  
Association for the Sciences of Limnology and Oceanography

2018-Present  
2018-Present  
2015-Present  
2015-Present

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