# Dr. Paige E. Martin



https://paigem.github.io





Climate Data Scientist | Open Science Enthusiast

## **ACHIEVEMENTS** Open science community leadership

Member of the Pangeo Steering Council working toward a sustainable future of open-source computing in big data geoscience, Organizer and convener of day-long conference sessions showcasing open science practitioners, Co-founder of Pangeo Oceania

#### Open-source software education and curriculum development

Developer and leader of Python computing curriculum at the Coastal Ocean Environment Summer School, Member of the Steering Council and co-organizer of the 2021 and 2022 OceanHackWeek, Leader of the Big Data group with the Australian Climate Data Guide

## Global capacity development in ocean sciences

Co-lead of Global Ocean Corps and Conveyor - an endorsed programme through the UN Decade of the Ocean, Lead organizer of Coastal Ocean Environment Summer School in Ghana

# Expertise in scientific and cloud computing, large datasets, and software development

Years of experience analyzing large ocean and climate model datasets using tools including Jupyter, Xarray, and Dask on cloud computing frameworks, Proficiency in Git and GitHub, Contributor to open-source tools (aerobulk-python, xrft)

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Postdoctoral Research Scientist, Advisor: Ryan Abernathey	May 2022 – present
Lamont-Doherty Earth Observatory, Columbia University	NY
Postdoctoral Research Scientist (dual affiliation)	
Research School of Earth Science, Australian National University	Feb. 2021 – Apr. 2022

Australia Advisor: Andy Hogg Apr. 2021 – Feb. 2022 Lamont-Doherty Earth Observatory, Columbia University Advisor: Ryan Abernathey

**Research Assistant,** *Advisor:* Brian Arbic Jun. 2019 – Jul. 2020 MI University of Michigan, Earth and Environmental Sciences Dept.

**Graduate Student Research Assistant,** *Advisor:* Brian Arbic May 2013 – May 2019 MI University of Michigan, Earth and Environmental Sciences Dept.

#### **EDUCATION**

University of Michigan, Dept. of Physics, Advisor: Brian Arbic	IVII
Ph.D. in Physics & Physical Oceanography	Aug. 2019
M.S. in Physics	Dec. 2017

Potsdam Institute for Climate Impact Research / Humboldt	Sep. 2011 – Aug. 2012
Universität, Physics Dept., Advisor: Jürgen Kurths	Germany
One-year fellowship (non degree-seeking)	

Harvard University	May 2011
A.B. (cum laude honors) in Physics, minor in French	MA

	Université Pierre et Marie Curie Junior year abroad (through Hamilton College)	Sep. 2009 – Jan. 2010 France
FELLOWSHIPS	National Science Foundation Graduate Research Fellowship	2013 - 2018
	<b>Graduate Opportunities Worldwide</b> (through NSF GRFP) Awarded for research at the Australian National University, Canber	Feb. – Jun. 2017 rra <i>Australia</i>
	Fellow at the Geophysical Fluid Dynamics Program Woods Hole Oceanographic Institute	Jun. – Aug. 2014 <i>MA</i>
	DAAD Study/Research Graduate Scholarship in Germany Potsdam Institute for Climate Impact Research/Humboldt Universit	2011 - 2012 tät <i>Germany</i>
OUTREACH &	Co-lead for Global Ocean Corps and Conveyor	2021 – present
CAPACITY DEVELOPMENT	Co-organizer and lead computing instructor of the <u>Coastal Ocean</u> and <u>Environment Summer School in Ghana</u>	2017 – present
	Co-organizer and mentor at OceanHackWeek	2021 – present
	Scientific advisor for non-profit Plastic Punch (Accra, Ghana)	2019 – present
SERVICE	Member of the <u>Pangeo</u> Steering Council	Feb. 2022 – present
	Member of the OceanHackWeek Steering Council	Feb. 2022 – present
	Co-organizer of Pangeo Oceania, a regional branch of Pangeo	Jun. 2021 – present
	Leader of "Working with Big and Challenging Data Collections" working group, part of the community-driven Australian Climate Data Guide	Feb. 2021 – present
	Elected Early Career Council Member of the <u>American</u> <u>Geophysical Union</u> (AGU)	Jan. 2019 – present
	Co-organizer of the Student/Early Career Conference at the AGU Fall Meeting	2016, 2020, 2021
	Member of the AGU On-Demand Advisory Group for the 2016 AGU Fall Meeting	July – Sep. 2016
	Student Member of the AGU Ocean Sciences Executive Committee	Feb. 2014 – Feb. 2016
	Student Organizer for the 2016 Ocean Sciences Meeting	2014 – 2016
	Conference session convener:  Ocean Sciences Meeting: "Open Ocean Science"	2022 2021

2017

AGU Fall Meeting: "Open Science in Action"

Dask Distributed Summit: "Pangeo Workshop"

Journal reviewer: Journal of Climate, Journal of Geophysical

Research: Oceans

Affiliations: American Geophysical Union, The Oceanography

Society

#### **PUBLICATIONS**

- Light, C.X., Arbic, B.K., **Martin, P.E.** *et al.* (2022) Effects of grid spacing on high-frequency precipitation variance in coupled high-resolution global ocean-atmosphere models, *Climate Dynamics*, <a href="https://doi.org/10.1007/s00382-022-06257-6">https://doi.org/10.1007/s00382-022-06257-6</a>
- Loose, N., Abernathey, R., Grooms, I., Busecke, J., Guillaumin, A.P., Yankovsky, E., Marques, G., Steinberg, J.M., Ross, A.S., Khatri, H., Bachman, S.D., Zanna, L., **Martin, P.** (2022). GCM-Filters: A Python Package for Diffusion-based Spatial Filtering of Gridded Data, *Journal of Open Source Software*. doi: 10.21105/joss.03947.
- **Martin, P. E.**, Arbic, B. K., & Hogg, A. M. (2021). Drivers of Atmospheric and Oceanic Surface Temperature Variance: A Frequency Domain Approach, *Journal of Climate*, *34*(10), 3975-3990. https://doi.org/10.1175/JCLI-D-20-0557.1
- Nyadjro, E.S., Arbic, B.K., Buckingham, C.E., **Martin, P.E.** *et al.* (2021) Enhancing Satellite Oceanography-Driven Research in West Africa: a Case Study of Capacity Development in an Underserved Region. *Remote Sens Earth Syst Sci.* <a href="https://doi.org/10.1007/s41976-021-00051-4">https://doi.org/10.1007/s41976-021-00051-4</a>
- Martin, P. E., Arbic, B. K., McC. Hogg, A., Kiss, A. E., Munroe, J. R., & Blundell, J. R. (2020). Frequency-Domain Analysis of the Energy Budget in an Idealized Coupled Ocean—Atmosphere Model, *Journal of Climate*, 33(2), 707-726. <a href="https://doi.org/10.1175/JCLI-D-19-0118.1">https://doi.org/10.1175/JCLI-D-19-0118.1</a>
- Stolbova, V., Martin, P., Bookhagen, B., Marwan, N., and Kurths, J. (2014). Topology and seasonal evolution of the network of extreme precipitation over the Indian subcontinent and Sri Lanka, Nonlin. Processes Geophys., 21, 901–917, <a href="https://doi.org/10.5194/npg-21-901-2014">https://doi.org/10.5194/npg-21-901-2014</a>
- Martin, P., 2014: A Study of Heat Transport and the Runaway Greenhouse Effect using an Idealized Model, *Proceedings of the 2014 Summer Program in Geophysical Fluid Dynamics*, Woods Hole, MA, Woods Hole Oceanographic Institute

# AWARDS & HONORS

Outstanding Student Presentation Award, AGU Fall Meeting 2018

Invited participant at Physical Oceanography Dissertation 2018

Invited participant at Physical Oceanography Dissertation Symposium (PODS), Kona, Hawaii

Best talk, Student Conference, Research School of Earth Sciences,
Australian National University

Certificate of Achievement for "The Helping Hand: This is someone who has gone out of their way to help you or others," Rackham Graduate School, University of Michigan

<b>TEACHING &amp;</b>
<b>OTHER WORK</b>
<b>EXPERIENCE</b>

TEACHING & OTHER WORK EXPERIENCE	Teaching Assistant for Python for Atmosphere and Ocean Science workshop ICSHMO 2022 Helped teach content from Data Carpentry lessons	Feb. 2022 Online
EXPERIENCE	Instructor and Co-organizer of the Coastal Ocean Environment Summer School in Ghana  Computing instructor: created Jupyter notebook and video tutorials, hosted live tutorials on scientific Python, helped run a cloud-based JupyterHub for participants  Provided general Python support for other topics and instructors at the school	Aug. 2021/Aug. 2020/Jan. 2020 <i>Online</i>
	Instructor and Co-organizer of the Coastal Ocean Environment Summer School in Ghana, Regional Maritime University, Accra  Intro. to Python and Jupyter for Ocean Sciences Applied Python (laboratory course)  "Roaming Python Expert": converted all school materials from Matlab to Python and provided Python support	Aug. 2019 Ghana
	<ul> <li>Graduate Student Instructor, University of Michigan</li> <li>Introduction to Physical Oceanography</li> <li>Converted all class materials from Matlab to Python</li> </ul>	Fall 2018 <i>MI</i>
	Instructor at the Coastal Ocean Environment Summer School in Ghana, University of Ghana - Legon, Accra  Introduction to Python	Aug. 2018 Ghana
	<b>Teaching Assistant</b> at the Coastal Ocean Environment Summer School in Ghana, <i>Regional Maritime University, Accra</i>	Aug. 2017 Ghana
	<ul> <li>Graduate Student Instructor, University of Michigan</li> <li>Physics 141: Elementary Lab 1</li> <li>Physics 136: Life Sciences Lab 1</li> </ul>	Fall 2012 – Spring 2013 <i>MI</i>
	<b>Information Technology Coordinator and Co-teacher</b> of course Physics and Go-Karts, <i>Exploration Summer Program</i>	Summer 2011 MA
	Peer tutor, Harvard College Bureau of Study Counsel  Physics, Math, French	2008 – 2010 <i>MA</i>
PRESENTATION	"Diversifying Oceanography: The Coastal Ocean Environment Summer School in Ghana" / "Towards a Truly Global Ocean Science Enterprise: Ocean Corps and the Coastal Ocean Environment Summer School in Ghana", a series of seminars on the same topic,	Online
	<ul><li>given jointly with collaborators:</li><li>Earth Science Seminar, Jet Propulsion Lab</li></ul>	Jun. 2022 Jan. 2022 Jun. 2021
	Environmental Science and Engineering Seminar, Caltech     Research School of Earth Sciences School Seminar, Australian	Apr. 2021

Research School of Earth Sciences School Seminar, Australian

National University

Apr. 2021

Malaysia  Department of Earth, Environmental and Planetary Sciences Colloquium, Brown University Coean and Climate Physics Seminar, Lamont-Doherty Earth Observatory, Columbia University  Ocean Sciences Meeting Diagnosing air-sea interaction via ocean surface temperature variance across time scales Ocean Corps: Inspiring sustained, long-term ocean science education and research collaborations between nations  AGU Fall Meeting A Catch-All Approach to Ocean Capacity Building in West Africa The Pangeo Community (invited speaker) Social Responsibility in the Earth and Space Sciences: An Early- Career Perspective  CLEX Annual Workshop (Australian Research Council's Centre of Excellence in Climate Extremes) Drivers of SST Variance Across Timescales and Model Resolution  Earthcube 2021 Frequency-Domain Analysis of Large Datasets Online AGU Fall Meeting Dirivers of Atmospheric and Oceanic Surface Temperature Variance Python and Open-Source Software for Developing Countries: A Catalyst for Change  Ocean Sciences Meeting Python and Open-Source Software for Developing Countries: A Catalyst for Change  Ocean-Atmosphere Model Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model Centennial Stage talk: Enhancing research in developing countries: the power of open source software  AGU Fall Meeting Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model		
<ul> <li>Department of Earth, Environmental and Planetary Sciences Colloquium, Brown University</li> <li>Ocean and Climate Physics Seminar, Lamont-Doherty Earth Observatory, Columbia University</li> <li>Ocean Sciences Meeting         <ul> <li>Diagnosing air-sea interaction via ocean surface temperature variance across time scales</li> <li>Ocean Corps: Inspiring sustained, long-term ocean science education and research collaborations between nations</li> </ul> </li> <li>AGU Fall Meeting         <ul> <li>A Catch-All Approach to Ocean Capacity Building in West Africa</li> <li>The Pangeo Community (invited speaker)</li> <li>Social Responsibility in the Earth and Space Sciences: An Early-Career Perspective</li> </ul> </li> <li>CLEX Annual Workshop (Australian Research Council's Centre of Excellence in Climate Extremes) Drivers of SST Variance Across Timescales and Model Resolution</li> <li>Earthcube 2021 Frequency-Domain Analysis of Large Datasets</li> <li>Dirivers of Atmospheric and Oceanic Surface Temperature Variance</li></ul>		Jan. 2021
Ocean Sciences Meeting  Diagnosing air-sea interaction via ocean surface temperature variance across time scales  Accean Corps: Inspiring sustained, long-term ocean science education and research collaborations between nations  AGU Fall Meeting  A Catch-All Approach to Ocean Capacity Building in West Africa The Pangeo Community [invited speaker] Social Responsibility in the Earth and Space Sciences: An Early-Career Perspective  CLEX Annual Workshop (Australian Research Council's Centre of Excellence in Climate Extremes) Drivers of SST Variance Across Timescales and Model Resolution  Earthcube 2021 Frequency-Domain Analysis of Large Datasets  AGU Fall Meeting Drivers of Atmospheric and Oceanic Surface Temperature Variance Python and Open-Source Software for Developing Countries: A Catalyst for Change  Ocean Sciences Meeting Spectral Energy Budget Analysis in the Frequency Domain Python and Open-Source Software for Developing Countries: A Catalyst for Change  Ocean-Atmosphere Model Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model Centennial Stage talk: Enhancing research in developing countries: the power of open source software  AGU Fall Meeting Dec. 201  AGU Fall Meeting Dec. 201  San Francisco, Company Countries: the power of open source software  AGU Fall Meeting Dec. 201  AGU Fall Meeting Dec. 201  Centennial Stage talk: Enhancing research in developing countries: the power of open source software  AGU Fall Meeting Dec. 201  Washington, Dec. 201  Physical Oceanography Dissertation Symposium (PODS)  Oct. 201  Physical Oceanography Dissertation Symposium (PODS)	<ul> <li>Department of Earth, Environmental and Planetary Sciences Colloquium, Brown University</li> <li>Ocean and Climate Physics Seminar, Lamont-Doherty Earth</li> </ul>	Sep. 2020
<ul> <li>Diagnosing air-sea interaction via ocean surface temperature variance across time scales</li> <li>Ocean Corps: Inspiring sustained, long-term ocean science education and research collaborations between nations</li> <li>AGU Fall Meeting         <ul> <li>A Catch-All Approach to Ocean Capacity Building in West Africa</li> <li>The Pangeo Community [invited speaker]</li> <li>Social Responsibility in the Earth and Space Sciences: An Early-Career Perspective</li> </ul> </li> <li>CLEX Annual Workshop (Australian Research Council's Centre of Excellence in Climate Extremes)</li> <li>Drivers of SST Variance Across Timescales and Model Resolution</li> <li>Earthcube 2021</li> <li>Jun. 202</li> <li>Frequency-Domain Analysis of Large Datasets</li> <li>Onlire Onlire Variance</li> <li>Python and Open-Source Software for Developing Countries: A Catalyst for Change</li> <li>Ocean Sciences Meeting</li> <li>Spectral Energy Budget Analysis in the Frequency Domain</li> <li>Python and Open-Source Software for Developing Countries: A Catalyst for Change</li> <li>AGU Fall Meeting</li> <li>Poster: Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model</li> <li>Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model</li> <li>Centennial Stage talk: Enhancing research in developing countries: the power of open source software</li> <li>AGU Fall Meeting</li> <li>Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model</li> <li>Physical Oceanography Dissertation Symposium (PODS)</li> <li>Oct. 201</li> </ul>	Observatory, Columbia University	
AGU Fall Meeting  A Catch-All Approach to Ocean Capacity Building in West Africa The Pangeo Community [invited speaker] Social Responsibility in the Earth and Space Sciences: An Early-Career Perspective  CLEX Annual Workshop (Australian Research Council's Centre of Excellence in Climate Extremes) Drivers of SST Variance Across Timescales and Model Resolution  Earthcube 2021 Frequency-Domain Analysis of Large Datasets  AGU Fall Meeting Drivers of Atmospheric and Oceanic Surface Temperature Variance Python and Open-Source Software for Developing Countries: A Catalyst for Change  Ocean Sciences Meeting Spectral Energy Budget Analysis in the Frequency Domain Python and Open-Source Software for Developing Countries: A Catalyst for Change  AGU Fall Meeting Poster: Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized Coupled, Ocean-Atmosphere Model Centennial Stage talk: Enhancing research in developing countries: the power of open source software  AGU Fall Meeting Dec. 201 Washington, Dec. 201	<ul> <li>Diagnosing air-sea interaction via ocean surface temperature variance across time scales</li> <li>Ocean Corps: Inspiring sustained, long-term ocean science</li> </ul>	Feb. 2022 Online
<ul> <li>A Catch-All Approach to Ocean Capacity Building in West Africa</li> <li>The Pangeo Community [invited speaker]</li> <li>Social Responsibility in the Earth and Space Sciences: An Early-Career Perspective</li> <li>CLEX Annual Workshop (Australian Research Council's Centre of Excellence in Climate Extremes)</li> <li>Drivers of SST Variance Across Timescales and Model Resolution</li> <li>Earthcube 2021</li> <li>Frequency-Domain Analysis of Large Datasets</li> <li>AGU Fall Meeting</li> <li>Drivers of Atmospheric and Oceanic Surface Temperature Variance</li> <li>Python and Open-Source Software for Developing Countries: A Catalyst for Change</li> <li>Ocean Sciences Meeting</li> <li>Spectral Energy Budget Analysis in the Frequency Domain</li> <li>Python and Open-Source Software for Developing Countries: A Catalyst for Change</li> <li>AGU Fall Meeting</li> <li>Poster: Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model</li> <li>Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model</li> <li>Centennial Stage talk: Enhancing research in developing countries: the power of open source software</li> <li>AGU Fall Meeting</li> <li>Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model</li> <li>Centennial Stage talk: Enhancing research in developing countries: the power of open source software</li> <li>AGU Fall Meeting</li> <li>Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model</li> <li>Physical Oceanography Dissertation Symposium (PODS)</li> <li>Oct. 201</li> </ul>	education and research collaborations between nations	
Excellence in Climate Extremes)  Drivers of SST Variance Across Timescales and Model Resolution  Earthcube 2021  Frequency-Domain Analysis of Large Datasets  AGU Fall Meeting  Dec. 202  Drivers of Atmospheric and Oceanic Surface Temperature Variance  Python and Open-Source Software for Developing Countries: A Catalyst for Change  Ocean Sciences Meeting  Spectral Energy Budget Analysis in the Frequency Domain Python and Open-Source Software for Developing Countries: A Catalyst for Change  AGU Fall Meeting  Poster: Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model  Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model  Centennial Stage talk: Enhancing research in developing countries: the power of open source software  AGU Fall Meeting  Dec. 201  San Francisco, Countries: Acute Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model  Centennial Stage talk: Enhancing research in developing countries: the power of open source software  AGU Fall Meeting  Dec. 201  Washington, D. Atmosphere Model  Physical Oceanography Dissertation Symposium (PODS)  Oct. 201	<ul> <li>A Catch-All Approach to Ocean Capacity Building in West Africa</li> <li>The Pangeo Community [invited speaker]</li> <li>Social Responsibility in the Earth and Space Sciences: An Early-</li> </ul>	Dec. 2021 Online
Earthcube 2021  Frequency-Domain Analysis of Large Datasets  AGU Fall Meeting  Dec. 202  Python and Open-Source Software for Developing Countries: A Catalyst for Change  Ocean Sciences Meeting  Feb. 202  Spectral Energy Budget Analysis in the Frequency Domain Python and Open-Source Software for Developing Countries: A Catalyst for Change  AGU Fall Meeting  Poster: Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model Centennial Stage talk: Enhancing research in developing countries: the power of open source software  AGU Fall Meeting Dec. 201  AGU Fall Meeting Dec. 201  Physical Oceanography Dissertation Symposium (PODS)  Oct. 201	Excellence in Climate Extremes)	Nov. 2021 Online
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<ul> <li>Drivers of Atmospheric and Oceanic Surface Temperature         Variance</li> <li>Python and Open-Source Software for Developing Countries: A         Catalyst for Change</li> <li>Ocean Sciences Meeting         <ul> <li>Spectral Energy Budget Analysis in the Frequency Domain</li> <li>Python and Open-Source Software for Developing Countries: A                     Catalyst for Change</li> </ul> </li> <li>AGU Fall Meeting</li></ul>		Jun. 2021 Online
Ocean Sciences Meeting  Spectral Energy Budget Analysis in the Frequency Domain Python and Open-Source Software for Developing Countries: A Catalyst for Change  AGU Fall Meeting Poster: Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model Centennial Stage talk: Enhancing research in developing countries: the power of open source software  AGU Fall Meeting Dec. 201 Washington, Dec. 201 Physical Oceanography Dissertation Symposium (PODS) Oct. 201	<ul> <li>Drivers of Atmospheric and Oceanic Surface Temperature Variance</li> </ul>	Dec. 2020 Online
<ul> <li>Spectral Energy Budget Analysis in the Frequency Domain</li> <li>Python and Open-Source Software for Developing Countries: A         Catalyst for Change</li> <li>AGU Fall Meeting         <ul> <li>Poster: Diagnosing Energy Transfer in an Idealized, North Atlantic,</li></ul></li></ul>	Catalyst for Change	
<ul> <li>Poster: Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model</li> <li>Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model</li> <li>Centennial Stage talk: Enhancing research in developing countries: the power of open source software</li> <li>AGU Fall Meeting         <ul> <li>Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model</li> </ul> </li> <li>Physical Oceanography Dissertation Symposium (PODS)</li> <li>Oct. 201</li> </ul>	<ul> <li>Spectral Energy Budget Analysis in the Frequency Domain</li> <li>Python and Open-Source Software for Developing Countries: A</li> </ul>	Feb. 2020 San Diego, CA
Ocean-Atmosphere Model  Invited e-Lightning talk: Frequency-Domain Analysis of the Energy Budget in an Idealized, Coupled, Ocean-Atmosphere Model  Centennial Stage talk: Enhancing research in developing countries: the power of open source software  AGU Fall Meeting  Dec. 201  Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model  Physical Oceanography Dissertation Symposium (PODS)  Oct. 201	AGU Fall Meeting	Dec. 2019
Budget in an Idealized, Coupled, Ocean-Atmosphere Model  Centennial Stage talk: Enhancing research in developing countries: the power of open source software  AGU Fall Meeting  Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-Atmosphere Model  Physical Oceanography Dissertation Symposium (PODS)  Oct. 201	Ocean-Atmosphere Model	San Francisco, CA
<ul> <li>Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean- Atmosphere Model</li> <li>Physical Oceanography Dissertation Symposium (PODS)</li> </ul>	Budget in an Idealized, Coupled, Ocean-Atmosphere Model • Centennial Stage talk: Enhancing research in developing countries:	
Atmosphere Model  Physical Oceanography Dissertation Symposium (PODS)  Oct. 201	AGU Fall Meeting	Dec. 2018
	Diagnosing Energy Transfer in an Idealized, North Atlantic, Ocean-	Washington, DC
Model: A Frequency-Domain Approach	Diagnosing Energy Transfer in an Idealized, Ocean-Atmosphere	Oct. 2018 Kona, HI

Frequency-Domain Analysis of Energy Transfer in an Idealized Canberra, Ocean-Atmosphere Model Australia Feb. 2018 **Ocean Sciences Meeting** • Frequency-Domain Analysis of Energy Transfer in an Idealized Portland, OR Ocean-Atmosphere Model **DRAKKAR Annual Workshop** Jan. 2018 • Frequency-Domain Analysis of Energy Transfer in an Idealized Grenoble, France Ocean-Atmosphere Model **CLIVAR Open Science Conference** Sep. 2016 Qingdao, China Extratropical Frontal- and Meso-scale Air-Sea Interaction: Diagnosing Forced Versus Intrinsic Low-Frequency Variability in an Idealized North Atlantic Ocean-Atmosphere Model Feb. 2016 **Ocean Sciences Meeting** The Ocean or the Atmosphere: Diagnosing Forced Versus Intrinsic New Orleans, LA Low-Frequency Variability in an Idealized North Atlantic Coupled Ocean-Atmosphere Model **AGU Fall Meeting** Dec. 2015 Network Analysis of Atmospheric Rossby Wave Patterns in the San Francisco, CA Northern Midlatitudes **EGU General Assembly** Apr. 2015 Oral PICO ("Presenting Interactive Content") Student Pop-up Talk: Vienna, Austria Networks and Climate: Are they a Good Match? Poster: Frequency Domain Analysis of Forced Versus Intrinsic Variability in a Quasi-Geostrophic Coupled Ocean Atmosphere Model **AGU Fall Meeting** Dec. 2014 Topology and Seasonal Evolution of the Network of Extreme San Francisco, CA Precipitation over the Indian Subcontinent and Sri Lanka R/V Sally Ride: Mode 2 internal waves near the Mendocino Ridge Dec. 2019 Pacific Ocean

OTHER INTERESTS

RESEARCH

**CRUISE** 

Performing in musical theater (professional performer), singing, dancing, partner acrobatics, gymnastics, aerial silks, hand balancing, pole vaulting, speaking in French and German, birdwatching