RILEY X. BRADY

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EDUCATION

University of Colorado Boulder	Boulder, CC
Ph.D. in Atmospheric & Oceanic Sciences	Expected 202
M.S. in Atmospheric & Oceanic Sciences	201
University of South Carolina	$Columbia,\ Solumbia$
B.S. in Marine Science (Emphasis in Physical Oceanography)	201
Magna Cum Laude, Honors College, Phi Beta Kappa	
Otto-Friedrich Universität Bamberg Minor in German Studies	Bamberg, German 201
RESEARCH APPOINTMENTS	
University of Colorado Boulder	Boulder, CC
Graduate Research Assistant, Institute of Arctic and Alpine Research	$2016 ext{-}Presen$
Los Alamos National Lab	Los Alamos, NA
Graduate Research Assistant, Theoretical Division	$Summer \ 2016$
University of South Carolina	Columbia, Solution
Undergraduate Research Assistant, Ecosystem Oceanography & Climate Change L	
NOAA Earth System Research Lab	Boulder, Co
NOAA Hollings Scholar, Physical Sciences Division	$Summer\ 201$
UNC Institute of Marine Sciences	Morehead City, No
NSF REU Intern, Coastal Fisheries Ecology Lab	Summer 2013
HONORS AND AWARDS	
National	
Computational Science Graduate Fellow, Department of Energy	201
Barry M. Goldwater Scholar, United States Congress	201
Ernest F. Hollings Scholar, NOAA	201
Institutional	201
Algernon Sydney Sullivan Award, U. South Carolina (3 recipients)	201
Outstanding Undergraduate in Marine Science, U. South Carolina (2 recipient	<i>'</i>
Outstanding Senior Award, U. South Carolina Magallan Research Scholar South Carolina Office of Undergraduate Research	201
Magellan Research Scholar, South Carolina Office of Undergraduate Research Science Undergraduate Research Fellow, South Carolina Honors College	201
McNair Scholar, University of South Carolina (Valued at \$130,800)	201 201
Meetings	201
1 st Place, Oceanography, Earth System and Space Science Poster Conference	201
Best Student Talk, Eastern Pacific Ocean Conference	201 201
Outstanding Student Presentation Award, Ocean Sciences Meeting	201 201
1 st Place, Morning Oral STEM Session, South Carolina Discovery Day	201
1 1 1600, Morning Oral Di Livi Dession, Douth Caronna Discovery Day	2016

PUBLICATIONS

Peer-reviewed:

- 1. **Brady, RX**, NS Lovenduski, MA Alexander, M Jacox, and N Gruber (2018), On the role of climate modes in modulating the air-sea CO₂ fluxes in Eastern Boundary Upwelling Systems, *Biogeosciences Discussions*. In review. [Discussion]
- Brady, RX, MA Alexander, NS Lovenduski, and RR Rykaczewski (2017), Emergent anthropogenic trends in California Current upwelling, Geophys. Res. Lett., 44, 50445052, doi:10.1002/2017GL072945. [PDF]

SKILLS & INTERESTS

Computer Languages Python, MATLAB, shell scripting, C/C++ (familiar), OpenMP (familiar)

Python Packages xarray, pandas, numpy, matplotlib, cartopy, seaborn

Data & Databases CESM Large Ensemble, CMIP5 Project, NetCDF, NCO, CDO

Design ParaView, HTML, CSS, LATEX, Vector Graphics

Foreign Language English (native), German (advanced)

Music acoustic guitar, blues harmonica, vocals

Hobbies trail running, road cycling, rock climbing, hiking, camping

PROFESSIONAL ACTIVITIES, OUTREACH, & MENTORING

· Referee for JGR: Oceans [Publons]

· Member of the Climate Fortnite Squad [Ice Ages]

· Skype a Scientist [Link]

· Judge for SOARS 2017 Poster Conference

· Programming mentor for Gabriela Negrete-Garcia (SOARS 2017)

TEACHING

University of Colorado Boulder

Guest Lecturer, Our Changing Climate (Latent and Sensible Heat)

Fall 2018

University of South Carolina

Co-Lecturer, University 101 (20 students)

Fall 2016

SELECTED PRESENTATIONS

Conferences:

- 1. Brady, RX, NS Lovenduski, MA Alexander, MG Jacox, and N Gruber. On the role of climate modes in modulating the air-sea CO₂ fluxes in Eastern Boundary Upwelling Systems. 12th Graduate Climate Conference: Pack Forest, WA. November 2018. (Talk)
- 2. Brady, RX, NS Lovenduski, MA Alexander, MG Jacox, and N Gruber. What controls the variability of CO₂ fluxes in Eastern Boundary Upwelling Systems? Ocean Sciences Meeting: Portland, OR. February 2018. (Talk) [Slides]
- 3. Brady, RX and NS. Lovenduski. CO₂ flux variability in Eastern Boundary Upwelling Systems. 10th International Carbon Dioxide Conference: Interlaken, Switzerland. August 2017. (Poster) [PDF]
- 4. Brady, RX, RR Rykaczewski, and MA Alexander. Emergence of anthropogenic trends in California Current upwelling in the presence of internal climate variability. CESM Workshop: Breckenridge, CO. June 2016. (Talk) [Slides]

- 5. Brady, RX, RR Rykaczewski, and MA Alexander. Emergence of anthropogenic trends in California Current upwelling in the presence of internal climate variability. Ocean Sciences Meeting: New Orleans, LA. February 2016. (Poster) [PDF]
- 6. Brady, RX, RR Rykaczewski, and MA Alexander. The influence of natural variability on future California Current upwelling. AGU Fall Meeting: San Francisco, CA. December 2015. (Talk) [Slides]
- 7. Brady, RX, MA Alexander, and RR Rykaczewski. Quantifying natural and anthropogenic variation in California Current upwelling. Eastern Pacific Ocean Conference: South Lake Tahoe, CA. September 2015. (Talk) [Slides]
- 8. Brady, RX, and RR Rykaczewski. Consequences of changing high-pressure zones on future coastal upwelling. Ocean Sciences Meeting: Honolulu, HI. February 2014. (Poster) [PDF]

Invited:

- 1. Brady, RX, M Maltrud, P Wolfram, and NS Lovenduski. Southern Ocean Carbon Hotspots in E3SM. Climate, Ocean, and Sea Ice Modeling (COSIM) Team: Los Alamos, NM. August 2018. (Talk)
- 2. Brady, RX, RR Rykaczewski, and MA Alexander. Emergence of Anthropogenic Trends in California Current Upwelling in the Presence of Natural Climate Variability. NCAR Oceanography Section: Boulder, CO. March 2016. (Talk)