JESSICA MASICH

NOAA Pacific Marine Environmental Laboratory, 7600 Sand Point Way NE, Seattle WA 98115 USA
(484)557-5191 | jessica.masich@noaa.gov | jessicamasich.com

WORK EXPERIENCE

NOAA Pacific Marine Environmental Laboratory, Seattle WA **2018 - present**
NRC Postdoctoral Fellow

· Analyzing heat and momentum fluxes in the tropical Pacific ocean surface boundary layer with advisors Billy Kessler and Meghan Cronin

Scripps Institution of Oceanography, San Diego, CA **2010-present**
Postdoctoral Researcher *Sept 2017 - present*
Ph.D. Candidate *Jan 2014 - Sept 2017*
Graduate Student Researcher *Jul 2010 - Dec 2013*

· Dissertation: 'Momentum balance in the Southern Ocean.' Advisor Teresa K. Chereskin.
· Field work: LADCP and CTD deployment and Current and Pressure-recording Inverted Echo Sounder recovery cruise, Drake Passage, Nov 2011
· Teaching: teaching assistant for Prof. Lynne Talley's graduate-level SIO 210: Introduction to Physical Oceanography

Environmental Protection Agency, Region 5, Chicago, IL **2008 - 2010**
Environmental Scientist

· Led and assisted on Clean Water Act inspections of wastewater treatment plants, sand and gravel manufacturing plants, and industrial farms in the upper Midwest
· Worked on small teams of EPA scientists and Department of Justice attorneys on nine to 15 enforcement cases at a time, including negotiations and litigation actions

EDUCATION

Scripps Institution of Oceanography
University of California, San Diego
M.S., Physical Oceanography, 2014
Ph.D., Physical Oceanography, 2017

The University of Chicago
B.A., Physics with general honors, minor in Environmental Studies, 2008

HONORS AND FELLOWSHIPS

NRC Research Associateship Program Postdoctoral Fellowship, 2018

Department of Defense National Defense Science and Engineering Graduate Fellowship: tuition and stipend for Sept 2011 - Sept 2014

University of California Regents Graduate Fellowship: tuition and stipend for Sept 2010 - Sept 2011

Honorable mention, National Science Foundation Graduate Research Fellowship Program, 2011

Environmental Protection Agency Bronze Medal for Exceptional Service, 2009

Woods Hole Oceanographic Institution Summer Student Fellowship, 2007

PUBLICATIONS

Masich, J., M. R. Mazloff, T. K. Chereskin (2018), *Interfacial form stress in the Southern Ocean State Estimate*, J. Geophys. Res. Oceans, doi:10.1029/2018JC013844.

Masich, J., T. K. Chereskin, and M. R. Mazloff (2015), *Topographic form stress in the Southern Ocean State Estimate*, J. Geophys. Res. Oceans, 120, 7919-7933, doi:10.1002/2015JC011143.

PRESENTATIONS

Masich, J., B. Kessler, M. Cronin and K. Grissom. Enhanced ocean boundary layer observations on NBDC TAO moorings. Presentation at TPOS2020 Backbone Face-to-Face Meeting, Woods Hole, MA, Sep 2018.

Masich, J., M. R. Mazloff, and T. K. Chereskin. Momentum balance in the Southern Ocean. Poster presentation at Ocean Sciences Meeting, Portland, OR, Feb 2018.

Masich, J., M. R. Mazloff, and T. K. Chereskin. *Interfacial form stress in the Southern Ocean State Estimate*. Poster presentation at the Southern Ocean workshop, Boulder, CO, Apr 2017.

Masich, J., T. K. Chereskin, and M. R. Mazloff. *Momentum balance in the Southern Ocean*. PC14D2091, 2016. Poster presentation at Ocean Sciences Meeting, New Orleans, LA, Feb 2016.

Millar, J. J., T. K. Chereskin, and D. R. Watts. *Four-year observations of interfacial form stress in the northern Drake Passage*. 14505, 2014. Poster presentation at Ocean Sciences Meeting, Honolulu, HI, Feb 2014.

Millar, J. J., T. K. Chereskin, and M. Mazloff. *Exploring the Southern Ocean State Estimate in the Drake Passage: Assimilation and Analysis of an Inverted Echo Sounder Array*. Oral and poster presentation at C-SOBOM NSF Science and Technology Center review Student and Postdoc Symposium, Princeton NJ, Oct 2012.

Millar, J. J., S. T. Gille, J. Sprintall, and M. Frantz. *Assessing XCTD fall-rate errors using concurrent XCTD and CTD profiles in the Southern Ocean*. OS21F-1565, 2010. Poster presentation at American Geophysical Union Fall Meeting, San Francisco CA, Dec 2010.

Millar, J. J. and R. W. Schmitt. *Parameterizing the mixing due to salt fingers*. 873, 2008. Poster presentation at Ocean Sciences Meeting, Orlando FL, Feb 2008.

Millar, J. J., C. Orellana, and N. Mujica. *Experimental characterization of supercritical bifurcation in the presence of noise*. Poster presentation at the Southern Workshop on Granular Materials, Viña del Mar, Chile, 2006.

TECHNICAL SKILLS

Computer Languages	MATLAB, some python
Software & Tools	LaTeX, 3D data visualization via python-based Mayavi, Adobe Illustrator, some web-based dynamic/interactive data visualization via D3.js
Operating Systems	Unix/Linux, macOS, Windows