

## **JESSICA J. MASICH**

Scripps Institution of Oceanography, University of California, San Diego  
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### **EDUCATION**

#### **Scripps Institution of Oceanography, University of California, San Diego**

M.S. in Oceanography received Fall 2012

Ph.D. in Physical Oceanography expected Fall 2017

Advisor: *Teresa K. Chereskin*

Committee: *Sarah Gille, Matthew Mazloff, Dean Roemmich, Sutanu Sarkar, Lynne Talley*

#### **The University of Chicago**

B. A. in Physics with General Honors, minor in Environmental Studies received June 2008

### **RESEARCH AND WORK EXPERIENCE**

#### **Scripps Institution of Oceanography, La Jolla, CA**

*Ph.D. Candidate*, Nov 2014 – present

*Graduate Student Researcher*, July 2010 – Nov 2013

- **Field work:** cDrake Experiment mooring recovery and LADCP data processing aboard R/V Palmer in Drake Passage, Nov-Dec 2011
- **Teaching:** Teaching Assistant for Lynne Talley's graduate class Introduction to Physical Oceanography, Fall 2015

#### **Environmental Protection Agency, Region 5, Chicago, IL**

*Environmental Scientist and Clean Water Act Enforcement Officer*, July 2008 – July 2010

#### **Woods Hole Oceanographic Institution, Woods Hole, MA**

*Summer Student Fellow* with Ray Schmitt, June 2007 – September 2007

### **FELLOWSHIPS AND AWARDS**

National Defense Science and Engineering Graduate Fellowship, September 2011 – September 2014

University of California Regents Graduate Fellowship, September 2010 – September 2011

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

Environmental Protection Agency Bronze Medal for Exceptional Service, 2009

### **PAPERS**

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.

### **MANUSCRIPTS IN PREPARATION**

Masich, J., M. Mazloff, and T. K. Chereskin. Interfacial form stress in the Southern Ocean State Estimate. *In revision*, *J. Geophys. Res. Oceans*.

Masich, J., T. K. Chereskin, and M. Mazloff. Observational estimates of interfacial form stress in the northern Drake Passage. *In prep*.

### **PRESENTATIONS**

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, Vina del Mar, Chile, 2006.