

PhD Candidate, Scripps Institution of Oceanography, UCSD

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Date of Birth: 6<sup>th</sup> February 1990**Education**

2012-present Ph.D. in Oceanography, Scripps Institution of Oceanography

2008-2012 B.Sc (Oceanography) with Honors, University of Washington

**Professional Experience**

2012-present Graduate Student Researcher, Scripps Institution of Oceanography

2010-2012 Student Research and Laboratory Assistant, Prof. Paul Quay, Stable Isotope lab, University of Washington, Department of Oceanography

**Honors and Awards**

2012-2013 George Mitchell Fellowship for graduate study at SIO

2012 Scholar-Athlete award, University of Washington

2012 Pac-12 Postgraduate Scholarship

**Professional Societies**

2013-present Student member, American Geophysical Union

**Sea-going Experience**July 2016 Chief Scientist, San Diego Bay: *GOTO:SEE*, R/V Sproul, (2 DAS)Dec 2015 - Jan 2016 CTD samples and float deployments, data analysis, Southern Ocean: *OOI Southern Ocean II*. R/V Palmer, Chief Scientist: Sebastien Bigorre (WHOI). (30 DAS)Dec 2015 CTD watchstander, co-PI, Southern California coast: *LaJIT experiment*. R/V Sproul, Chief Scientist: Matthew Alford (SIO). (3 DAS)Mar – May 2014 CTD watchstander, South Pacific: *U.S. Repeat Hydrography section P16S*. R/V Palmer, Chief scientist: Lynne Talley (SIO). (48 DAS)April 2012 CTD watchstander, Nitrous Oxide analyst, Eastern tropical North Pacific: *Control of Denitrification and Anammox in Oxygen Minimum Zones (OMZs)*, R/V Thompson, Chief Scientist: Allan Devol (UW). (10 DAS)**Teaching Experience**

2015-2017 Research mentor, undergraduate student, Southern Ocean air-sea heat flux project

2015-2017 Instructor, UCSD Academic Connections Global Environmental Leadership and Sustainability Program, San Diego and Washington D.C.

2012 Teaching Assistant (UW), *Introduction to Oceanography Lab*, Professor: Susan Hautala

2011 Teaching Assistant (UW), *Oceanography of the Pacific Northwest*, Professor:  
Mikelle Nuwer

### **Publications**

Tamsitt, V., Drake, H., Morrison, A. K., Talley, L. D., Dufour, C. O., Gray, A. R., Griffies, S. M., Mazloff, M. R., Sarmiento, J. L., Wang, J. and W. Weijer, 2017. Spiraling pathways of global deep waters to the surface of the Southern Ocean. *Nature Communications*, 8, 172

Alberty, M.S., Billheimer, S., Hamann, M.M., Ou, C.Y., Tamsitt, V., Lucas, A.J., Alford, M.H., 2017. A reflecting, steepening, and breaking internal tide in a submarine canyon, *JGR:Oceans*

Tamsitt, V., Talley, L., Mazloff, M. and Cerovečki, I., 2016. Zonal variations in the Southern Ocean heat budget. *J. Climate*, 29(18), 6563-6579

### **Selected Conference and Workshop Participation**

Tamsitt, V., 2017, *Pathways of upwelling deep waters to the surface of the Southern Ocean*, Oral Presentation, EGU Annual meeting, Vienna, Austria

Tamsitt, V., 2017, *Pathways of upwelling deep waters to the surface of the Southern Ocean*, Oral Presentation, NCAR Southern Ocean Workshop, Boulder, USA

Tamsitt, V., Talley, L. Mazloff M., 2016, *Connecting sources of circumpolar deep water to the Antarctic continental shelf using lagrangian pathways*, Oral Presentation, AGU Fall meeting, San Francisco, USA

Tamsitt, V., Talley, L. Wang, J. and Mazloff M., 2016, *Lagrangian pathways of deep water upwelling in the Southern Ocean State Estimate*, Poster Presentation, Ocean Sciences Meeting, New Orleans, USA

Tamsitt, V., Talley, L. and Cerovečki, I, Mazloff M., 2016, *Zonal variations in the Antarctic Circumpolar heat budget*, Invited Poster Presentation, Ocean Sciences Meeting, New Orleans, USA

Tamsitt, V., Talley, L. and Cerovečki, I, Mazloff M., 2015, *Southern Ocean State Estimate air-sea heat fluxes and the ACC heat budget*, Oral Presentation, SOOS/WCRP/ESA Air-sea flux Workshop, Frascati, Italy

Tamsitt, V., Talley, L. and Cerovečki, I, Mazloff M., 2015, *Zonal variations in the Southern Ocean heat budget*, Oral Presentation, IUGG meeting, Prague, Czech Republic

Tamsitt, V., Talley, L. and Mazloff M., 2014, *Southern Ocean air-sea heat flux, SST spatial anomalies, and implications for multi-decadal upper ocean heat content trends*. Poster Presentation, CLIVAR Southern Ocean heat and carbon uptake Workshop, San Francisco, CA

Tamsitt, V., Talley, L. and Mazloff M., 2014, *Heat gain in the Southern Ocean: regional heat budgets using the Southern Ocean State Estimate*, Poster Presentation, Ocean Sciences Meeting, Honolulu Hawaii.

## **Professional References**

Prof. Lynne Talley, Thesis Advisor

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Dr. Matthew Mazloff, Committee Member,

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