

# Julius Busecke

202a Oceanography  
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## Education

Columbia University | NY | USA – PhD, expected 2017

Major: Physical Oceanography

Advisor: Prof. Dr. Arnold L. Gordon

Christians-Albrechts University/GEOMAR | Kiel | GER – BSc, 2010

Major: Physics of the earth system: Oceanography-Meteorology-Geophysics

Advisor: Prof. Dr. Arne Biastoch

## Publications

### Published

Gordon, A. L., C. F. Giulivi, **J. Busecke**, and F. M. Bingham (2015), Differences among subtropical surface salinity patterns, **Oceanography**, doi:10.5670/oceanog.2015.02.

Gordon, A. L., B. A. Huber, and **J. Busecke** (2015), Bottom water export from the western Ross Sea, 2007 through 2010, **GRL**, doi:10.1002/2015GL064457.

Bingham, F. M., **J. Busecke**, A. L. Gordon, C. F. Giulivi, and Z. Li (2014), The North Atlantic subtropical surface salinity maximum as observed by Aquarius, **JGR: Oceans**, doi: 10.1002/2014JC009825.

**Busecke, J.**, A. L. Gordon, Z. Li, F. M. Bingham, and J. Font (2014), Subtropical surface layer salinity budget and the role of mesoscale turbulence, **JGR: Oceans**, doi: 10.1002/2013JC009715.

### In Preparation

**Busecke, J.**, R. P. Abernathey, A. L. Gordon, Lateral Eddy Mixing in the subtropical salinity maxima of the global Ocean, **JPO**

F. M. Bingham, **J. Busecke**, A. L. Gordon, C. F. Giulivi, Z. Li, Characteristics and Variability of the South Pacific Subtropical Surface Salinity Maximum, **JGR: Oceans**

## Teaching

Columbia University, Dept. of Earth & Environmental Sciences | New York | NY

Teaching Assistant: Earth Systems - Climate EESCV2100 - Fall 2013

Teaching Assistant: Intro to Physical Oceanography EESCW4925 - Fall 2012

Teaching Assistant: Earth Oceans and Atmospheres EESCW4930 - Spring 2012

Experience	GEOMAR, Department of theory and modeling   Kiel   GER - 2009-2010 Research assistant: Climate model data visualization
Fieldwork	Research cruise aboard B/O SARMIENTO DE GAMBOA - Mar/Apr 2013 Subtropical North Atlantic  Research cruise aboard R/V KNORR - Sep/Oct 2012 Subtropical North Atlantic  Research cruise aboard R/V NATHANIEL B. PALMER - Jan/Feb 2011 Ross Sea, Antarctica  Research cruise aboard R/V METEOR - Jan/Feb 2009 Eastern subtropical North Atlantic
Skills	Oceanographic boat work and sampling - advanced IT on Mac/UNIX systems - proficient programming in MATLAB - advanced programming in python - basic experience in model setup (MITgcm) - advanced skills in picture/video editing with Adobe IL/PS/PR/ID
Languages	German - native English - fluent Spanish - basic
Awards	NASA Earth and Space Science Fellowship - 2014  Outstanding Student Presentation Award - 2014 ASLO/AGU Ocean Science Meeting , Honolulu  United States Antarctic Service Medal - 2012
Affiliations	Member of the American Geophysical Union - 2012-date Member of the European Geophysical Union - 2014-date
Service and Outreach	LDEO Division of Ocean and Climate Physics Seminar Organizer - 2010-2011 Reviewer: Journal of Physical Oceanography - 2014- date