Curriculum Vitae Gunnar Voet

Scripps Institution of Oceanography University of California, San Diego 9500 Gilman Drive #0213 La Jolla, CA 92093-0213 email: gvoet@ucsd.edu phone: 858.822.6809 web: gunnarvoet.github.io

I. Personal Details:

Citizenship: Germany

US immigration status: Permanent Resident

II. Education:

2010 PhD in Physical Oceanography, University of Hamburg.

Thesis: On the Nordic Overturning Circulation.

2006 Diplom Physik (similar to Msc. Physics), University of Hamburg.

Thesis: Entrainment in the Denmark Strait Overflow Plume by meso-scale Eddies.

III. Appointments held:

m. Appointments neta.		
2014 – ongoing	Assistant Project Scientist at the Scripps Institution of Oceanography, University of California, San Diego.	
2012 – 2014	Postdoctoral Researcher at the Applied Physics Laboratory, University of Washington.	
2011	Research associate at the German Federal Maritime and Hydrographic Agency.	
2010 – 2011	Software development at the German Federal Waterways Engineering and Research Institute.	
2006 – 2010	Research associate at the Institute of Oceanography, University of Hamburg.	

IV/	External	Func	ınσ·
. v .	LACCITICI	I UIII	mig.

iv. External runding:		
2019-2020	G. Voet . Moored Oceanographic Instrumentation for Studies of Ocean Dynamics and Turbulence. Office of Naval Research, \$616,173.	
2018-2022	Ferrari, R., K. L. Polzin, M. H. Alford, G. Voet . Collaborative Research: Bottom Boundary Layer Turbulence and the Ocean's Meridional Overturning Circulation. <i>National Science Foundation</i> . \$1,922,734.	
2018-2023	Waterhouse, A., G. Voet . Near-Inertial Shear and Kinetic Energy in the North Atlantic experiment. <i>Office of Naval Research</i> , \$942,479.	
2017-2020	Voet, G. , M. H. Alford, L. J. Pratt, J. B. Girton, G. S. Carter. Collaborative Research: Hydraulic Processes in the Samoan Passage. <i>National Science Foundation</i> , \$714,202.	
2015-2019	Alford, M. H., J. A. MacKinnon, G. Voet . Flow Encountering Abrupt Topography. <i>Office of Naval Research</i> , \$1,394,842.	

V. Refereed Publications:		
in preparation	Voet, G. , M. H. Alford, J. B. Girton, G. S. Carter, J. M. Klymak, A. M. Thurnherr, L. J. Pratt. Energetics of a Samoan Passage Dense Overflow. <i>Journal of Physical Oceanography</i> .	
submitted	Voet, G. , M. H. Alford, J. A. MacKinnon, J. Nash. Observations of Lee Waves Generated by Topographic Form Drag on Tides and Low-Frequency Flow over a Tall Submarine Ridge near Palau. <i>Journal of Physical Oceanography</i> .	
submitted	Girton, J. B., J. B. Mickett, Z. Zhao, M. H. Alford, G. Voet , J. Cusack, G. Carter, K. A. Pearson-Potts, L. J. Pratt, S. Tan, J. M. Klymak. Flow–topography interactions in the Samoan Passage. <i>TOS Oceanography</i> .	
submitted	Siegelman, M., M. A. Merrifield, E. Firing, J. A. MacKinnon, M. H. Alford, G. Voet , H. W. Wijesekera, T. Schramek, E. Terrill. Observations of near-inertial surface currents at Palau. <i>TOS Oceanography</i> .	
submitted	Lele, R., S. G. Purkey, J. D. Nash, A. M. Thurnherr, C. B. Whalen, L. D. Talley, J. A. MacKinnon, G. Voet , S. Mecking. Abyssal Mixing in the South West Pacific Basin. <i>Journal of Physical Oceanography</i> .	
submitted	Luecke, C., B. Arbic, J. Richman, J. Shriver, M. Alford, J. Ansong, S. Bassette, M. Buijsman, D. Menemenlis, R. Scott, P. Timko, G. Voet , A. Wallcraft, L. Zamudio. From Internal Gravity Waves to the Mesoscale: Temperature Variance and Kinetic Energy in Models and Historical Observations. <i>Journal of Geophysical Research: Oceans</i> .	
accepted	Rudnick, D. L., K. L. Zeiden, C. Ou, T. M. S. Johnston, J. A. MacKinnon, M. H. Alford, G. Voet . Understanding vorticity caused by flow passing an island. <i>TOS Oceanography</i> .	
accepted	Carter, G. C., G. Voet , M. H. Alford, J. B. Girton, J. B. Mickett, J. M. Klymak, L. J. Pratt, K. A. Pearson-Potts, J. M. Cusack, S. Tan. A spatial geography of abyssal turbulent mixing in the Samoan Passage. <i>TOS Oceanography</i> .	
accepted	Andres, M., M. Siegelman, V. Hormann, R. Musgrave, M. Merrifield, D. Rudnick, H. Wijesekera, L. Centurioni, M. Alford, G. Voet , J. MacKinnon, J. Nash. Eddies, Topography, and the Abyssal Flow by the Kyushu-Palau Ridge near Velasco Reef. <i>TOS Oceanography</i> .	
2019	Cusack, J. M., G. Voet , M. H. Alford, J. B. Girton, G. S. Carter, L. J. Pratt, K. Pearson-Potts, S. Tan. Persistent Turbulence in the Samoan Passage. <i>Journal of Physical Oceanography</i> .	
2019	MacKinnon, J. A., M. H. Alford, G. Voet , K. Fitzmorris, T. M. S. Johnston, M. Siegelman, S. Merrifield, M. Merrifield. Eddy wake generation from broadband currents near Palau. <i>Journal of Geophysical Research: Oceans</i> .	
2019	Pratt, L. J., G. Voet , A. Pacini, S. Tan, M. H. Alford, G. S. Carter, J. B. Girton, D. Menemenlis. Pacific abyssal transport and mixing: through the Samoan Passage vs. around the Manihiki Plateau. <i>Journal of Physical Oceanography</i> 49(6), 1577-1592.	
2019	Wagner, G. L., G. Flierl, R. Ferrari, G. Voet , G. S. Carter, M. H. Alford, J. B. Girton. Squeeze Dispersion and the Effective Diapycnal Diffusivity of Oceanic Tracers. <i>Geophysical Research Letters</i> , 46, 5378-5386.	
2018	Thorpe, S. A., J. Malarkey, G. Voet , M. H. Alford, J. B. Girton, G. S. Carter. Application of a model of internal hydraulic jumps. <i>Journal of Fluid Mechanics</i> , 834, 125-148.	
2017	Savage, A. C., B. K. Arbic, M. H. Alford, J. K. Ansong, J. T. Farrar, D. Menemenlis, A. K. O'Rourke, J. G. Richman, J. F. Shriver, G. Voet , A. J. Wallcraft, L. Zamudio. Spectral decomposition of internal gravity wave sea surface height in global models. <i>Journal of Geophysical Research</i> , 122(10), 7803-7821.	
2017	Savage, A. C., B. K. Arbic, J. G. Richman, J. F. Shriver, M. H. Alford, M. C. Buijsman, J. T. Farrar, H. Sharma, G. Voet , A. J. Wallcraft, L. Zamudio. Frequency content of sea surface height variability from internal gravity waves to mesoscale eddies. <i>Journal of Geophysical Research</i> , 122(3), 2519-2538.	

Voet, G., J. B. Girton, M. H. Alford, G. S. Carter, J. M. Klymak, J. B. Mickett. Warming and

	weakening of the abyssal flow through Samoan Passage. <i>Journal of Physical Oceanography</i> , 46(8), 2389-2401.
2015	Voet, G. , M. H. Alford, J. B. Girton, G. S. Carter, J. B. Mickett, J. M. Klymak. Pathways, Volume Transport and Mixing of Abyssal Water in the Samoan Passage. <i>Journal of Physical Oceanography</i> , 45(2), 562-588.
2013	Alford, M. H., J. B. Girton, G. Voet , G. S. Carter, J. B. Mickett and J. M. Klymak. Turbulent mixing and hydraulic control of abyssal water in the Samoan Passage. <i>Geophysical Research Letters</i> , 40, 1-7.
2010	Voet, G. and D. Quadfasel. Entrainment in the Denmark Strait overflow plume by meso-scale eddies. <i>Ocean Science</i> , <i>6</i> , 301-310.
2010	Voet, G. , D. Quadfasel, KA. Mork and H. Søiland. The mid-depth circulation of the Nordic Seas derived from profiling float observations. <i>Tellus A</i> , 62.
2010	Fer, I., G. Voet , K. Seim, B. Rudels and K. Latarius. Intense mixing of the Faroe Bank Channel overflow. <i>Geophysical Research Letters</i> , 37, L02604.
2008	Dickson, B., S. Dye, S. Jónsson, A. Köhl, A. Macrander, M. Marnela, J. Meincke, S. Olsen, B. Rudels, H. Valdimarsson and G. Voet . The Overflow Flux West of Iceland: Variability, Origins and Forcing. <i>In: Arctic-Subarctic Ocean Fluxes, edited by R.R. Dickson et al.</i> , Springer, 443-474.

VI. Talks and posters at international conferences:		
27 th IUGG General Assembly Observations of Low Frequency Flow-Generated Oceanic Lee Waves and Associated Turbulent Dissipation Over a Tall Ridge (oral presentation). Montréal, Québec, Canada.		
Gordon Research Conference on Ocean Mixing Lee wave observations over a tall ridge (poster). Andover, New Hampshire, USA.		
49 th Internal Liège Colloquium & 8 th Warnemünde Turbulence Days. Abyssal Turbulent Mixing in the Samoan Passage (oral presentation). Liège, Belgium.		
Ocean Sciences Meeting. Observed energy and momentum budget of a hydraulically controlled dense overflow in the Samoan Passage (oral presentation). New Orleans, Louisiana, USA.		
26 th IUGG General Assembly. Abyssal volume and heat transport through the Samoan Passage: A 16-month timeseries based on recent observations. Prague, Czech Republic.		
Ocean Sciences Meeting. Volume Transports and Turbulent Mixing in the Samoan Passage (poster). Honolulu, Hawaii, USA.		
AGU Fall Meeting. The Samoan Passage Abyssal Mixing Experiment (oral presentation). San Francisco, California, USA.		
Euro-Argo User Workshop, Argo Floats in the Nordic Seas (oral presentation). Paris, France.		
MOCA-09 Joint Assembly, <i>The overflow across the Iceland-Faroe Ridge (poster)</i> . Montréal, Québec, Canada.		
Ocean Sciences Meeting, The mid-depth circulation of the Nordic Seas from profiling floats (oral presentation). Orlando, Florida, USA.		
North Atlantic Subpolar Gyre Workshop, Stirring and mixing in the Nordic overflow plumes (poster). Kiel, Germany.		
Rapid Climate Change International Science Conference, Stirring and mixing in the Nordic overflow plumes (poster). Birmingham, UK.		

VII. Major Resea	arch Cruises:
2019	Research cruise SP1924 on <i>R/V Robert Gordon Sproul</i> . San Diego Trough. Chief Scientist. Mooring work.
2019	Research cruise SR1914 on <i>R/V Sally Ride</i> . Tropical Pacific north of Palau. Chief Scientist. Mooring work, microstructure measurements, CTD.
2019	Research cruise SP1917 on <i>R/V Robert Gordon Sproul</i> . San Diego Trough. Chief Scientist. Mooring work.
2019	Research cruise AR35-02 on <i>R/V Neil Armstrong</i> . Iceland Basin. Chief Scientist. Mooring work, CTD.
2018	Research cruise TN357 on <i>R/V Thomas G. Thompson</i> . Tropical Pacific north of Palau. Mooring work, chameleon (vertical microstructure profiler).
2017	Research cruise OC1710A on <i>R/V Oceanus</i> . Central Californian Coastal Waters. Mooring work.
2017	Research cruise RR17078 on <i>R/V Roger Revelle</i> . Tropical Pacific north of Palau. Chief Scientist. CTD, LADCP, mooring work.
2016	Research cruise RR1607 on <i>R/V Roger Revelle</i> . Tropical Pacific north of Palau. Co-PI. SWIMS, fastCTD, MMP, CTD, LADCP, mooring work.
2015	Research cruise SKQ201511S on <i>R/V Sikuliaq</i> . Beaufort Sea & Bering Strait. SWIMS, MMP, CTD, LADCP, mooring work.
2015	Research cruises RR1501 & RR1503 on <i>R/V Roger Revelle</i> . Tasman Sea. CTD, LADCP and mooring work.
2014	Research cruise PS1415 on <i>R/V Point Sur</i> . Monterey Bay. Biosonics echosounder & CTD.
2014	Research cruise OC1408B on <i>R/V Oceanus</i> . Washington Shelf. SWIMS, MMP and mooring work.
2014	Research cruise TN305 on R/V Thomas G. Thompson. Samoan Passage. CTD, LADCP, VMP and mooring work.
2013	Research cruise MV1306 on <i>R/V Melville</i> . CLIVAR/Carbon P02E (Honolulu - San Diego). Co-Chief Scientist.
2012	Research cruise RR1209 on <i>R/V Roger Revelle</i> . Samoan Passage. CTD, LADCP, VMP and mooring work.
2008	Research cruise HM610 on <i>Håkon Mosby</i> . Faroe-Bank Channel. CTD, LADCP, VMP (vertical microstructure profiler).
2007	Research cruise MSM05-4 on <i>MS Merian</i> . Irminger Sea / Denmark Strait. CTD, LADCP and mooring work.
2006	Research cruise D311 on <i>RRS Discovery</i> . Irminger Sea / Denmark Strait. CTD, vmADCP and mooring work.
2005	Research cruise A0805 on <i>Árni Friðriksson</i> . Irminger Sea / Denmark Strait. CTD and mooring work.
2002	Research cruise 44/02/05 on FS Alexander von Humboldt. North Atlantic. CTD.

VIII. Professional Services:

Peer-review of scientific publications in Journal of Physical Oceanography, Journal of Geophysical Research, Ocean Modelling, Ocean Science, Deep Sea Research, Journal of Marine Research, Journal of Marine Systems, Oceanography, Marine Geodesy, Chinese Journal of Oceanology and Limnology, Science Bulletin.

Peer-review of research proposals for NSF and NOAA.

Member of American Geophysical Union.

IX. Stipends and Awards:

2007 Awarded with the *Annette-Barthelt-Preis für Meeresforschung* for an outstanding thesis in the

field of seagoing ocean research, including a research grant from the German Federal Ministry

of Education and Research (BMBF).

X. Other qualifications:

2014 UNOLS Chief Scientist Training Workshop2013 Co-Chief Scientist CLIVAR/Carbon P02E.

2008 3rd EGO Workshop and "Glider School", NATO Undersea Research Centre, La Spezia, Italy.

2007 CKO International Summer School on Physical Oceanography, Les Diablerets, Switzerland.

Organized by the Netherlands Centre for Climate Research.

Last updated: November 2019