

CURRICULUM VITAE

SUSANNE MENDEN-DEUER

Professor of Oceanography
Graduate School of Oceanography, University of Rhode Island
smenden@uri.edu
<http://www.mendendeuerlab.com/>

EDUCATION

- June 2004 **Ph.D.** Linking individual foraging strategies with ecological dynamics: quantifying zooplankton movements in heterogeneous resource distributions.
School of Oceanography, University of Washington, Seattle
Advisor - Prof. Daniel Grünbaum
- Dec. 1998 **M.Sc.** Carbon to volume relationships for dinoflagellates, diatoms and other protist plankton.
School of Oceanography, University of Washington, Seattle
Advisor - Prof. Evelyn Lessard
- April 1996 **Diplom Biologie, summa cum laude**, On the role of diatom morphology as defense against dinoflagellate predation.
Rheinische Friedrich Wilhelms University, Bonn & Alfred Wegener Institute for Polar and Marine Research, Bremerhaven, Germany
Advisor - Prof. Victor Smetacek

RESEARCH INTERESTS

Ecology: Primary production • Predation • Harmful & toxic algae • Intra-specific variability
Biological-physical interactions: Effects of temporal and spatial structure on plankton dynamics
• Organismal movement behaviors • Biological drivers of patchiness
Mathematical Biology: Game Theory • Random walk models • Connectivity of biological processes across temporal and spatial scales • Integration of analytical & empirical techniques
Methodology: Sensor development to quantify abundance and activity of plankton • 3-D image & movement analysis • Automation of plankton abundance & biomass estimation • Statistical analysis of biological and environmental data
Science Communication & Visualization: Accessibility of data • Public engagement

APPOINTMENTS

- 2017 - present Professor of Oceanography, University of Rhode Island
2012 - 2017 Associate Professor of Oceanography, University of Rhode Island
2008 - 2012 Assistant Professor of Oceanography, University of Rhode Island
2007 - 2008 Professor in Residence, University of Rhode Island
2006 - 2007 Research Fellow, Princeton University
Ecology and Evolutionary Biology, Prof. Simon Levin
2004 - 2006 Non-tenure track faculty, Western Washington University
2004 - 2006 Visiting Scholar, University of Washington, School of Oceanography
2001 - 2004 Research assistant, University of Washington, Prof. D. Grünbaum
2000 K-12 Outreach Coordinator, Friday Harbor Laboratories, Prof. A.O.D. Willows
1996 - 1999 Research assistant, University of Washington, Prof. E.J. Lessard
1994 - 1996 Research technician, Alfred Wegener Institute, Prof. V. Smetacek

PUBLICATIONS * student & post-doc collaborators

- *Kane MK, *Yopak* R, Roman C & **Menden-Deuer**. 2018. Krill motion in the Southern Ocean: quantifying in situ krill movement behaviors and distributions during the late austral autumn and spring. *Limnology & Oceanography*. 10.1002/lno.11024
- *Morison F & **Menden-Deuer**. 2018. Seasonal similarity in rates of protistan herbivory in fjords along the Western Antarctic Peninsula. *Limnology & Oceanography*. 10.1002/lno.11014
- Menden-Deuer** S, Lawrence C, Franzè G. 2018. Herbivorous protist growth and grazing rates at in situ and artificially elevated temperatures during an Arctic phytoplankton spring bloom. *PeerJ* 6:e5264 <https://doi.org/10.7717/peerj.5264>
- Menden-Deuer** S & J Rowlett. 2018. The theory of games and microbe ecology. *Theoretical Ecology*. <https://doi.org/10.1007/s12080-018-0384-1>
- *Lindeman C, DL Aknes, KJ Flynn & S **Menden-Deuer**. 2017. Editorial: Modeling the Plankton–Enhancing the Integration of Biological Knowledge and Mechanistic Understanding. *Frontiers in Marine Science* 4.
- Xenopoulos MA, JA Downing, M Deep Kumar, S **Menden-Deuer** & M Voss. 2017. Headwaters to oceans: Ecological and biogeochemical contrasts across the aquatic continuum. *Limnology and Oceanography* DOI: 10.1002/lno.10721
- *Morison F & S **Menden-Deuer**. 2017. Doing more with less: balancing sampling resolution with effort in measuring plankton growth and grazing rates. *Limnology and Oceanography, Methods* DOI: 10.1002/lom3.10200
- Grear, J. S., T. A. Rynearson, A. L. Montalbano, B. Govenar, and S. **Menden-Deuer**. 2017. pCO₂ effects on species composition and growth of an estuarine phytoplankton community. *Estuarine, Coastal and Shelf Science* **190**:40-49. doi: 10.1016/j.ecss.2017.03.016
- *Anderson SA & S Menden-Deuer. 2016. Growth, grazing and starvation survival in 3 heterotrophic dinoflagellate species. *Journal of Eukaryotic Microbiology*. doi:10.1111/jeu.12353
- Rynearson T & **Menden-Deuer** S. 2016. Drivers that structure biodiversity in the plankton. In P. M. Glibert and T.M. Kana (eds), *Aquatic Microbial Ecology and Biogeochemistry: A dual perspective*. Springer.
- Snelgrove, P., E. Vanden Berghe, P. Miloslavich, P. Archambault, N. Bailly, A. Brandt, A. Bucklin, M. Clark, F. Dahdouh-Guebas, P. Halpin, R. Hopcroft, K. Kaschner, B. Lascelles, L.A. Levin, S. **Menden-Deuer**, A. Metaxas, D. Obura, R. R. Reeves, T. Rynearson, K. Stocks, M. Tarzia, D. Tittensor, V. Tunnicliffe, B. Wallace, R. Wanless, T. Webb, P. Bernal, J. Rice, A. Rosenberg. 2016. Chapter 34: Gradients in Marine Biodiversity. In *The United Nations World Ocean Assessment*, published by the United Nations as part of the Global Reporting and Assessment of the State of the Marine Environment
- Menden-Deuer** S & T Kjørboe. 2016. Small Bugs with a big impact: linking plankton ecology with ecosystem processes. *Journal of Plankton Research* 38: 1036-1043 10.1093/plankt/fbw049
- *Graff J & S **Menden-Deuer**. 2016. Physical and optical properties of plankton rich layers; toward prediction and strategic sampling of plankton patchiness. *Marine Ecology Progress Series*. Vol. 544: 1–14, doi: 10.3354/meps11601 Feature Article
- *Orchard MJ, Humphries S, Schuech* R & S **Menden-Deuer**. 2016. The influence of viscosity on the motility and sensory ability of the dinoflagellate *Heterocapsa triquetra*. *Journal of Plankton Research*. 38 (4): 1062-1076. doi: 10.1093/plankt/fbw004

PUBLICATIONS (CONT.)

- *Harvey EL, T Rynearson & S **Menden-Deuer**. 2015. Persistent intra-specific variation in genetic and behavioral traits in the raphidophyte, *Heterosigma akashiwo*. *Frontiers in Microbiology*. <http://dx.doi.org/10.3389/fmicb.2015.01277>
- *Morison F & S **Menden-Deuer**. 2015. Early spring phytoplankton dynamics in the subpolar North Atlantic: The influence of Heterotrophic-Protist Herbivory. *Limnology and Oceanography* doi: 10.1002/lno.10099
- Menden-Deuer S** & A Montalbano. 2015. Bloom formation potential in the toxic dinoflagellate *Akashiwo sanguinea*: clues from movement behaviors and growth characteristics. *Harmful Algae*. 47:75–85 doi: 10.1016/j.hal.2015.06.001
- *Kim H & **Menden-Deuer S**. 2014. Estimating the effects of ocean acidification-induced behavioral shifts on primary production rates of *Heterosigma akashiwo*. *Proceedings of the International Society for the Study of Harmful Algae*.
- Keeling PJ, Burki F, Wilcox HM, Allam B, Allen EE, et al. 2014. The Marine Microbial Eukaryote Transcriptome Sequencing Project (MMETSP): Illuminating the Functional Diversity of Eukaryotic Life in the Oceans through Transcriptome Sequencing. *PLoS Biol* 12(6): e1001889. doi:10.1371/journal.pbio.1001889
- *Schuech R & **Menden-Deuer S**. 2014. Going ballistic in the plankton – anisotropic swimming behavior of marine protists. *Limnology & Oceanography: Fluids & Environments*: 4: 1-16
- Menden-Deuer S** & J Rowlett. 2014. Many ways to stay in the game: individual variability maintains high biodiversity in planktonic microorganisms. *Journal of the Royal Society Interface*. 11: 20140031
- *Chappell PD, LP *Whitney, TL *Haddock, S **Menden-Deuer**, EG Roy, ML Wells, and BD Jenkins. 2013. *Thalassiosira* spp. community composition shifts in response to an eddy in the northeast Pacific Ocean. *Frontiers in Microbiology*. doi: 10.3389/fmicb.2013.00273.
- Rubin CB, S **Menden-Deuer** & EL*Harvey. 2013. Plankton on the Move. *Leonardo* 46:412-413
- *Kim H & S **Menden-Deuer**. 2013. Reliability of rapid, semi-automated assessment of plankton abundance, biomass, and growth rate estimates: Coulter Counter versus light microscope measurements. *Limnology & Oceanography Methods* 11: 382-393
- *Harvey, EL, Jeong HJ & S. **Menden-Deuer**. 2013. Avoidance and attraction: Chemical cues influence predator-prey interactions of planktonic protists. *Limnology & Oceanography*. 58:1176-1184
- *Kim H, A Spivak & S **Menden-Deuer**. 2013. Lowered pH alters the swimming behaviors of the raphidophyte *Heterosigma akashiwo*: implications for bloom formation in an acidified ocean. *Harmful Algae* 26:1-11
- Strom SL, *Harvey EL, Fredrickson KA & S. **Menden-Deuer**. 2013. Broad halotolerance as a refuge from predation in the harmful raphidophyte alga *Heterosigma akashiwo*. *Journal of Phycology*. 49:20-31
- *Graff JR, *Forschner-Dancause SR, **Menden-Deuer S**, Long R and DC Rowley. 2013. *Vibrio cholerae* exploits sub-lethal concentrations of a competitor-produced antibiotic to avoid toxic interactions. *Frontiers in Microbiology*. 4:8. doi: 10.3389/fmicb.2013.00008
- Menden-Deuer S**. 2012. Structure-dependent phytoplankton photosynthesis and production: implications for the formation, maintenance and decline of plankton patches. *Marine Ecology Progress Series*. 468: 15–30

PUBLICATIONS (CONT.)

- *Harvey, EL & **S. Menden-Deuer**. 2012. Predator-induced fleeing behaviors in phytoplankton: a new mechanism for harmful algal bloom formation? *PLoS ONE* 7(9): e46438. doi:10.1371/journal.pone.0046438
- *Lawrence, CM & **S. Menden-Deuer**. 2012. Drivers of protistan grazing pressure: seasonal signals of plankton community composition and environmental conditions. *Marine Ecology Progress Series*. 459: 39–52
- *Harvey, EL & **S. Menden-Deuer**. 2011. Avoidance, movement, and mortality: the role of predator-prey interactions in harmful algal bloom dynamics. *Limnology and Oceanography* 56:371-378
- Menden-Deuer S** & Fredrickson KA. 2010. Structure-dependent, protistan grazing and its implication for the formation, maintenance and decline of plankton patches. *Marine Ecology Progress Series* 420: 57-71
- Menden-Deuer S**. 2010. High-correlation of individual motility enhances population dispersal rates in a heterotrophic protist. *PLoS - Computational Biology* 6(10): e1000943 doi: 10.1371
- Menden-Deuer S** Fredrickson KA & Strom SL. 2010. Formation and decline of a *Heterosigma akashiwo* layer in East Sound, Washington, USA, p. 98-103, *In* K. C. Ho, M. Y. Zhou, and Y.Z. Qi [eds.], *Harmful algae 2008*. International Society for the Study of Harmful Algae, Hong Kong.
- Menden-Deuer S**. 2008. Spatial and temporal characteristics of plankton-rich layers in a shallow, temperate fjord. *Marine Ecology Progress Series* 355: 21-30
- Menden-Deuer S**. 2006. An integrated model simulation and empirical laboratory on biological encounter rates. *Oceanography* 19(4):185-189
- Menden-Deuer S** & D Grünbaum. 2006. Individual foraging behaviors and population distributions of planktonic predators aggregating to phytoplankton layers. *Limnology & Oceanography* 51:109-116
- Menden-Deuer S**, Lessard EJ, *Satterberg J & D Grünbaum. 2005. Growth and starvation survival capacity of three species of the pallium feeding thecate dinoflagellate genus *Protoperidinium* (Peridiniacea, Dinophyceae) distributions. *Aquatic Microbial Ecology* 41: 145-152
- Saldarriaga JF, Taylor FJR, Cavalier-Smith T, **Menden-Deuer S** & PJ Keeling. 2004. Molecular data and the evolutionary history of dinoflagellates. *European Journal of Protistology* 40: 85-111
- Skovgaard A & **S Menden-Deuer**. 2003. Long-term exposure of dinoflagellates to ¹⁴C: Effects on growth rate and measurements of carbon content. *Journal of Plankton Research* 25: 1005-1009
- Smetacek V, Klaas C, **S Menden-Deuer** & TA Rynearson. 2002. Mesoscale distribution of dominant diatom species relative to the hydrographical field along the Antarctic Polar Front. *Deep-Sea Research II* 49: 3835-3848
- Menden-Deuer S**, Lessard EJ & J *Satterberg. 2001. Effect of preservation on dinoflagellate and diatom cell volume, and consequences for carbon biomass predictions. *Marine Ecology Progress Series* 222: 41-50
- Menden-Deuer S** & EJ Lessard. 2000. Carbon to volume relationships for dinoflagellates, diatoms, and other protist plankton. *Limnology & Oceanography* 45: 569-579

NON-PEER REVIEWED CONTRIBUTIONS

- Menden-Deuer S**, 2017. Book Review: Marine Plankton: A Practical Guide to Ecology, Methodology, and Taxonomy. *Limnology and Oceanography Bulletin*
- Menden-Deuer S**, Bristow L, Doi H, Filstrup C, Johnson A, Rose K, Xi X, Burgess A, and G Wilkinson. 2015. Big Data on Important Issues: Assessing the Needs of Student and Early Career Aquatic Scientists. *Limnology and Oceanography Bulletin*
- Filstrup CT, KC Rose, X Xiao, AK Johnson, S **Menden-Deuer**. 2016. Early Career Workshop at Aslo Summer Meeting Provides Tips to Improve Funding Success. *Limnology and Oceanography Bulletin*

IN REVIEW

- *Oikonomou A, F *Morison, J Pierson & S **Menden-Deuer**. 2017. in review. Mesozooplankton grazing impact on phytoplankton during early spring in the Northwest Atlantic. *Journal of Plankton Research*

MAJOR FUNDING AWARDS

- 2017 - National Aeronautics and Space Administration - Quantifying Plankton Predation Rates, and Effects on Primary Production, Phytoplankton Community Composition, Size Spectra and Potential for Export - co-PI Ryneerson (URI)
- 2017 - National Science Foundation, Biological Oceanography Core Program – sole PI “*Quantifying Temperature Dependence In Growth & Grazing Rates of Planktonic Herbivores*”
- 2017 - Rhode Island Science and Technology Council - *The heat is on: measuring the effects of increasing ocean temperature on the growth and grazing rates of single celled herbivores* - co-PI Knowlton (Rhode Island College)
- 2017 - Rhode Island Science and Technology Council - *Discovering Lipid Biomarkers in Marine Planktonic Predators: Food webs to Biofuels* - lead PI Ryneerson , co-PI Reid (Bryant)
- 2017 - National Science Foundation - Long Term Ecological Research: *Linking pelagic community structure with ecosystem dynamics and production regimes on the changing Northeast US shelf* - Lead Sosik (WHOI) co-PIs: Beaulieu, Ji, Lentz, Llopiz, Neubert (WHOI), Stanley (Wellesley), Ryneerson (URI), Chen (UMass)
- 2016 - Rhode Island Endeavor Program - Particles and Plankton: Relating in situ marine particle characteristics to biochemical rates and ecosystem - coPIs Omand & Post (URI)
- 2016 - Rhode Island STAC – PIs Omand, Menden-Deuer, Ryneerson (URI), Sgouros, Knorlein (Brown) “*Bringing planktonic holograms to life with YURT Ultimate Reality Theatre*”.
- 2016 Rhode Island STAC – PIs Menden-Deuer, Ryneerson (URI), Knowlton (RIC) “*Genetic Sensors for ecosystem functions: new ways of quantifying predation in the ocean*”
- 2015 - National Aeronautics and Space Administration - North Atlantic plankton population dynamics: quantifying the predictive values of light and hyperspectral ocean color data - sole PI
- 2015 - Rhode Island Endeavor Program - Phytoplankton patchiness and productivity: implications for our understanding of marine food web function and anticipated changes in a changing ocean - sole PI

FUNDING AWARDS (CONT.)

- 2014 Rhode Island Science and Technology Advisory Council (STAC) – PIs Menden-Deuer, Menezes (URI), Overstrom (RISD), *“Data Narratives: Climate Change in Narragansett Bay as Case Study for Engaging Communication of Scientific Information”*
- 2014 STAC – PIs Rothstein, Menden-Deuer (URI), Weinstein-Knowlton (RIC) *“The Impacts of Climate Change and Variability on the Biogeochemistry and Ecology of Rhode Island’s Coastal Waters – Regional Climate Modeling”*
- 2013 Rhode Island STAC – PIs Menden-Deuer, Rynearson (URI), Grear (EPA), Govenar (RIC) *“Ocean acidification effects on plankton community composition and food web energy flow”*
- 2012 - 2016 National Science Foundation, Office of Polar Programs – Durbin, Rynearson, Menden-Deuer, Roman (all URI) & Zhou (UMass Boston). *“Seasonal trophic role of Euphausia superba”*
- 2012 - 2013 National Science Foundation, Major Research Instrumentation – Wilga, Meyer, Menden-Deuer & Dahl (all URI). *“Acquisition of a Digital Particle Image Velocimetry System for Studying Fluid Flow Around Organismal, Robotic and Marine Structure”*
- 2012 - 2013 Champlin Foundation – Roman, Menden-Deuer, Rynearson, King & Thornber (all URI). *“A mobile, autonomous surface vehicle fleet for teaching, research and outreach”*
- 2011 Rhode Island Endeavor Program – sole PI
- 2008 - 2012 National Science Foundation, Biological Oceanography Program – sole PI *“Deciphering planktonic predator-prey interactions: a mechanistic approach”*
- 2007 - 2009 Office of Naval Research, Ocean Optics and Biology – sole PI *“Quantifying trophic and demographic rates of plankton-rich layers in East Sound, Washington”*
- 2006 - 2009 NOAA Coastal Ocean Program, ECOHAB, co-PI Suzanne Strom *“Identifying regulatory mechanisms for Heterosigma akashiwo bloom formation: predator behaviors and resource use”*
- 2005 Washington Sea Grant – sole PI *“Effects of plankton thin-layers on plankton populations”*
- 2005 Research Fellowship, German Research Foundation (DFG) *“Quantifying the effect of marine predator foraging behaviors on productivity, diversity and ecosystem function using mathematical, theoretical and empirical approaches”*
- 2000 Fellowship, Marine Chemosensory Ecology Course, U. S. Office of Naval Research
- 1996 Ph.D. Fellowship (3 years), German Academic Exchange Service (DAAD)

OTHER FUNDING AWARDS

- 2012 Gordon & Betty Moore Foundation – PIs Menden-Deuer, Rynearson (URI) *“Transcriptome sequencing of planktonic predator and prey species”*
- 2010 - 2015 National Science Foundation – PIs Alfonso, Moran (URI) *“Rhode Island EPSCoR: Infrastructure to Advance Life Sciences in the Ocean State”*
I was a member of the 5-person core science writing team for this proposal

HONORS AND ACADEMIC AWARDS

- 2016 Hutner Award - International Society of Protistologists
- 2016 ASLO Fellow
- 2015 Council of Scientific Society Presidents - Rising Star Travel Award
- 2013 Outstanding Reviewer Recognition, Journal of Plankton Research
- 2012 Visiting Researcher, Max Planck Institute for Mathematics, Germany
- 2010 Invited session speaker, Ocean Sciences Meeting, Portland, OR
- 2009 IEEE *Journal of Oceanic Engineering* Excellent Reviewer of 2008
- 2008 Invited Participant National Academy of Sciences Keck Future Initiative on Complexity
- 2007 NSF & ICES Young Investigator Travel Award
- 2006 Highly cited paper award, Thompson Scientific, for Menden-Deuer & Lessard 2000.
- 2006 & 2010 Gordon Research Conference, Marine Microbes
- 2005 DIALOG VII Symposium for recent Ph.Ds.
- 1999 Outstanding student presentation, American Society for Limnology and Oceanography
- 1998 Best student presentation, Pacific Estuarine Research Society
- 1998 NSF Scholarship, Ophiolite Expedition, Sultanate of Oman
- 1996 Ph.D. fellowship German Academic Exchange Service (DAAD)
- 1996 Diplom Biologie (=M.Sc.) *summa cum laude*, Universität Bonn, Germany
- 1993 Year-Abroad Scholarship German Academic Exchange Service (DAAD)
- 1992 Vordiplom Biologie (=B.S.) *magna cum laude*, Universität Bonn, Germany

RESEARCH CRUISES

- 2018 R/V Endeavor, EN608, New England Shelf
- 2016 R/V Endeavor, New England Shelf, Chief Scientist
- 2016 R/V Atlantis, NAAMES North Atlantic Cruise II
- 2015 R/V Endeavor, Gulf of Maine, Chief Scientist
- 2013 R/V Nathaniel B Palmer, Western Antarctic Peninsula
- 2011 R/V Zoea*, East Sound, WA, Chief Scientist
- * multiple day cruises for total of 2-4 weeks
- 2011 R/V Porsild, Disko Bay, Greenland
- 2011 R/V Endeavor, Gulf of Maine, Chief Scientist
- 2010 R/V Zoea*, East Sound, WA, Chief Scientist
- 2009 R/V Zoea*, Salish Sea, Northeast Pacific, Chief Scientist
- 2008 R/V Zoea*, East Sound, WA, Chief Scientist
- 2007 R/V Endeavor, Block Island Sound
- 2007 R/V Thomas G. Thompson, Puget Sound to Station PAPA
- 2001 R/V Thomas G. Thompson, Puget Sound, Washington - Chief Scientist
- 2000 R/V Alpha Helix, Bering Sea, Alaska
- 1997 R/V Clifford A. Barnes, Puget Sound, Washington
- 1996 R/V Polarstern, Antarctic Polar Front, Southern Ocean JGOFS
- 1995 R/V Victor Hensen, German Bight

TEACHING & OUTREACH

UNIVERSITY OF RHODE ISLAND

2009 - current	Fall	OCG 561	Biological Oceanography	Lecture and Lab
2009 - current	Spring/Fall	OCG 493/593	Data Analysis & Communication in Marine Science	

WESTERN WASHINGTON UNIVERSITY

2006	Winter	ESCI 321 & 322	Oceanography	Lecture and Lab
2005	Spring	ESCI 497	Quantitative Ecology	Lecture and Lab

TEACHING (CONT.)

2005	Winter	ESCI 321 & 322	Oceanography	Lecture and Lab
2005	Fall	ESCI 597	Ecological Modeling	Lecture and Lab
2002 - 2004		Biology 180	Biodiversity Field Trips	Field Trip Leader

UNIVERSITY OF WASHINGTON

2001		Oceanography 201	Introduction to Field Oceanography	
1998		Oceanography 101	Survey of Oceanography	Teach. Assistant

NUMEROUS GUEST LECTURES AT THE GRADUATE AND UNDERGRADUATE LEVEL

MENTORING

GRADUATE STUDENTS CURRENT

2017 - present	Jacob Strock	Ph.D.
2017 - present	Mary Kane	Ph.D.

GRADUATE STUDENTS COMPLETED THESES (10)

2016	Françoise Morison	Ph.D.
2016	Sean Anderson	M.Sc.
2015	Mike Fong, Mary Kane	M.Sc.
2014	Françoise Morison	M.Sc.
2013	Samantha DeCuollo	M.Sc.
2012	Elizabeth Harvey	Ph.D.
2012	Hyewon Kim, Henry Wladkowski	M.Sc.
2011	Caitlyn Lawrence	M.Sc.
2010	William S. Day	M.Sc. – thesis approved not submitted

POST-DOCTORAL FELLOWS (10)

2018 - present	Heather McNair, Pierre Marrec
2017 - present	Françoise Morison
2016 - present	Gayantonia Franzé
2016 - 2017	Nigel D'Souza, co-advised with T Rynearson, URI
2016 - 2017	Andreas Oikonomou
2014 - 2016	Darcy Taniguchi, co-advised with Mick Follows, MIT
2013 - 2014	Shu Cheng, co-advised with Tatiana Rynearson, GSO
2012 - 2013	Michael Orchard - now University of Lincoln, UK
2011 - 2012	Rudi Schuech - now University of Hull, UK
2010 - 2011	Jason Graff – now University of Oregon

UNDERGRADUATE INTERNS

- 2018 Sara Shapiro, Michael Sprague, Anna Rossi, Michael Tortorelli, Anna Ward (SURFO), Eva Lincoln (SURF)
- 2017 Michael Tortorelli, Elizabeth Jardine (RIC), Noah Davis, Anna Rossi
- 2016 Albert Good, Cynthia Michaud, Megan Schrader
Liza Fairbanks-Wright (Middlebury, SURFO), Garrett Walsh (RIC, SURF)
- 2015 9 Endeavor 553 cruise, Emily Bernstein, Seeta Joseph, Myles McLevedge, Albert Good, Cynthia Michaud, Megan Schrader, Myles Mclevedge
- 2014 Justin Warrener, Nathan Goff (SURF), Rachel Miller (SURF), Emily Bernstein
- 2013 Emily Bernstein, Caitlin Russell (SURFO)
- 2012 Morgan Carter, Megan Ferguson, Rachel Hickcox (SURFO), Wynton Brewster, Emily Bernstein
- 2011 Morgan Carter, Megan Ferguson, Nicole Millette, Eric Muhlbach, Andrea Reis (SURFO)
- 2010 Morgan Carter, Nicole Millette, Anna Mosby (SURFO), Eric Muhlbach (Coastal Fellow), Megan Nepshinsky
- 2009 Ashley MacGuire, Kayla Murgio (Coastal Fellow), Megan Nepshinsky, Noelle Tubbs
- 2008 Jessica Gilbert, Kayla Murgio, Noelle Tubbs
- 2006 Cheyenne C. Garcia (Western Washington University)
- 2005 Beth F. Kochin (Yale), Cecilia M. Lewis (College of Charleston)
Jean Marie Roth (Penn State)
- 1998 - 2000 Jessi Satterberg (University of Washington)
- 1998 - 1999 Julia K. Bos, Cossandra Hill (both University of Washington)

STUDENT COMMITTEES (25)

- Completed Emily Brownlee (Ph.D., WHOI), Sarah Blackstock (M.Sc.), Traci Haddock (Ph.D.), Anna Pfeiffer-Herbert, (Ph.D.), Julia Johnstone (Ph.D), Melanie Garate (M.Sc.), Niels-Viggo Hobbs (Ph.D), Brandon Jensen (M.Sc.), Monique LaFrance (M.Sc.), Miranda Lopez (M.Sc.), Sylvia Kim (M.Sc.), Ashley Marranzino (Ph.D), Jason McNamee (Ph.D.), Gordon Ober (Ph.D.), Christopher Piecuch (M.Sc.), Maximilian Sender, (M.Sc.), Tori Spence (M.Sc.), Remo Stierli (M.Sc.), Connor Tennant (M.Sc.), Taylor Voorhees (M.Sc.), Kerry Whittaker (Ph.D.), Regina Yopak (M.Sc.), Shuwen Zhang (Ph.D.)
- Current Noah Walcutt, Kristopher Gomez, Monique Bartley

PROFESSIONAL & VOLUNTEER SERVICE

SCIENCE OUTREACH

- 2018 Women in Marine Science, Mystic Aquarium, CT - Exhibit Presenter
- 2018 Volvo Ocean Races, RI – Presenter & Exhibit
- 2017 Graduate School of Oceanography, Open House
- 2016 R/V Endeavor 40th anniversary Open House
- 2015 Friends of Oceanography Annual Lecture
- 2015 Volvo Ocean Races, RI – Oceanexploratorium Presenter & Exhibit
- 2014 Rhode Island School of Design – Plankton Portraiture Science Advisor
- Underwater Exploration Camp for middle school students
- GEMS-NET Science Mentor, Teacher training seminar

OUTREACH (CONT.)

- 2013 Rhode Island School of Design – Structure and Form of Plankton
- “Science: Outside the Classroom Door”, South County High School, RI
- Key paradigms in oceanography: Ocean Exploration Trust, Lyme, CT
- 2012 America’s Cup Newport, RI – Oceanexplorarium Presenter & Exhibit
- Science Mentor, Metcalf Institute for Marine & Environmental Reporting
- Interviews with NPR, Scientific American, AAAS and CBC
- 2011 Science Mentor RISD Design Studio, & RISD Data Visualization
- Science Mentor, Metcalf Institute for Marine & Environmental Reporting
- Science Mentor RISD course: “Digital Nature” Cynthia Beth Rubin
- 2010 Science Mentor RISD Nature lab with Neil Overstrom
- RITES Science Mentor
- GEMS-NET Science Mentor, Teacher training seminar
- Science Mentor, Multicultural Program Ocean Sciences Meeting
- 2009 Science Mentor, Metcalf Institute for Marine & Environmental Reporting
- 2004 - present Poster Judge, ASLO, ERF, NEAS, URI
- 2000 - present National Ocean Science Bowl in WA and RI, Science Judge
- 1998 - present Presentations to school-age students on marine & natural science
- 2000 - 2004 Ocean Inquiry Project, Educational and Scientific Consultant, Instructor
- 2002 Johns Hopkins University, Explorations in Marine & Ocean Sciences
Family Academic Conferences, Instructor
- 1999 - 2000 Friday Harbor Laboratories, K-12 Outreach Coordinator
- 1999 - 2001 Minorities in Marine Science Program, Western Washington University,
Host Scientist
- 1998 - 2002 Seattle City Parks and Recreation, Volunteer Docent

UNIVERSITY SERVICE COMMITTEES

- 2018 - present Search Committee: Marine Chemist, tenure-track Asst. Professor
- 2017 -2018 URI Sabbatical Review Committee
- 2017 - 2018 Search Committee: Assistant Director Office of Marine Programs
- 2017 - 2018 Search Committee: Vice-President for Research URI
- 2017 - present URI Honorary Degree Committee
- 2017 GSO Dean’s Advisor Committee
- 2017 GSO Promotion and Tenure Committee
- 2015 - present Data Science Degree Committee
- 2015 - 2018 Academic Program Review Committee
- 2015 Administrator Evaluation Committee
- 2013 - 2016 Faculty Senate, University of Rhode Island
- 2013 - 2014 Search Committee: Biogeochemist, tenure-track Asst. Professor
- 2013 Search Committee: Director, Coastal Resources Center (partial)
- 2010 - 2012 Search Committee: Dean, Graduate School of Oceanography
- 2010 Search Committee: Marine Chemist, tenure-track Asst. Professor
- 2009 – 2016 Student Assessment and Recruitment committee (parental leave spring 2013)
- 2009 - present RI EPSCoR Science Leader
- 2009 - 2011 Disease in Marine Organisms, USDA, Faculty advisor

NATIONAL/INTERNATIONAL COMMITTEES

- 2019 Session co-organizer, Aquatic Sciences Meeting, Puerto Rico, USA
2018 Workshop co-organizer, Long Term Responses to Climate Change, LTER Annual meeting, Pacific Grove, CA
2017 Session co-organizer, Aquatic Sciences Meeting, Hawaii, USA
2015 - 2018 *Frontiers in Marine Science* Guest Editor special issue "Modeling Plankton"
2016 - present International Society of Protistologists, Awards Committee
2015 - 2016 Science Definition Team, NASA, Exports
2015 Session co-organizer, Aquatic Sciences Meeting, Granada, Spain
2014 Session co-organizer, Ocean Sciences Meeting, Hawaii, USA
2013 - present Early Career Committee, ASLO (chair)
2013 - 2016 Board Member, Association for the Sciences of Limnology and Oceanography
2012 - present National Harmful Algal Bloom Committee

REVIEWER & PANELIST

SCIENTIFIC JOURNALS

Acta Protozoologica • Aquatic Ecology • Aquatic Microbial Ecology • Aquatic Sciences • American Naturalist • Computational and Structural Biotechnology Journal • Computers and Mathematics with Applications • Deep Sea Research • Earth System Science Data • Estuarine, Coastal and Shelf Science • European Journal of Protistology • Fundamental and Applied Limnology • Global Change Biology • Harmful Algae • IEEE J. Oceanic Engineering • J. Geophysical Research - Oceans • J. Theoretical Biology • J. Phycology • J. Plankton Research • J. Eukaryotic Microbiology • J. Marine Systems • J. Royal Society Interface • J. Sea Research • Limnology & Oceanography • L & O Fluid and Environments • L & O Letters • L & O Fluid and Environments • Marine Ecology • Marine Ecology Progress Series • Mathematical Biosciences • Nature • Nature Communications • Oceanography • Oecologia • PLoS ONE • Proceedings of the Royal Society • Proceedings of the National Academy of Sciences • Progress in Oceanography • Scientia Marina • Science of the Total Environment • Scientific Reports

FUNDING AGENCIES

Environmental Protection Agency EcoHAB • National Science Foundation • Connecticut SeaGrant • Natural Sciences and Engineering Research Council of Canada • New York SeaGrant • Oregon SeaGrant • Washington SeaGrant • Gordon Research Conferences • Hudson River Foundation

PUBLISHERS

Blackwell Scientific Publications • Princeton University Press • Wiley Publishers

REVIEW PANELS

- 2014 & 2015 – Connecticut SeaGrant (declined due to teaching conflict)
2013 – National Science Foundation
2011 – Washington Sea Grant
2010 – National Science Foundation
2008 – Environmental Protection Agency/NOAA EcoHAB
2009 & 2010 Invitation to NSF Polar Programs Panel - declined due to research cruise

EDITORIAL BOARDS

2017 - present: Academic Editor PeerJ

2015 - present: Associate Editor Limnology & Oceanography

2011 - 2015 Journal of Plankton Research

2011 - present: Continental Shelf Research

MEMBERSHIP IN PROFESSIONAL SOCIETIES _____

American Society for Limnology & Oceanography • American Society of Naturalists •
Estuarine Research Federation • International Society for the Study of Harmful Algae •
International Society of Protistologists

SELECTED PRESENTATIONS *post-doc & student collaborators _____

Only invited or conferences 2018

2018

Menden-Deuer S. 2018. Small but mighty: marine plankton in a dynamic ocean. Department of Biology, University of Massachusetts, Dartmouth MA (*invited*)

Ward* A., Franzè* G., S **Menden-Deuer**. 2018. Exploring the effects of turbulence on microzooplankton growth and grazing rates. Poster presented at the Society for Advancement of Chicanos/Hispanics and Native Americans in Science (SACNAS) Regional Meeting, San Diego, CA, USA.

Roohani* K, B Haubrich*, KL Yu*, N D'Souza, T Rynearson, S **Menden-Deuer**, Christopher W. Reid. 2018. Lipid profiling of dinoflagellates under saturation and starvation conditions: Identification of biomarkers of coastal ecosystem health. GRC Marine Microbes, Italy.

Morison* F, G Franzè*, EL Harvey, J Graff & S **Menden-Deuer**. 2018. Constraining biological rates governing the North Atlantic annual cycle in phytoplankton biomass. Ocean Carbon Biogeochemistry Meeting, Woods Hole, Massachusetts

Franzè* G & S **Menden-Deuer**. 2018. Quantifying Temperature Dependence of Planktonic Herbivores Growth Rates. Ocean Carbon Biogeochemistry Meeting, Woods Hole, Massachusetts

Menden-Deuer S. 2018. Northeast Shelf LTER- a new long term ecological research site on the Eastern Seaboard. NSF LTER Symposium: Understanding Our Ocean Connections, National Science Foundation, VA (*invited*)

Menden-Deuer S. 2018. Small but mighty: marine plankton in a dynamic ocean. Department of Ecology, Evolution and Marine Biology, Old Dominion University, VA (*invited*)

Bolanos* L.M., **Menden-Deuer S.**, Karp-Boss, L., Morison* F., Boss E., Chase* A., Haëntjens* N., Choi* C.J., Worden A.Z., Graff J, Westberry T., Behrenfeld M., Halsey K., Davie-Martin* C., Carlson C. & Giovannoni S.J 2018. NAAMES (North Atlantic Aerosols and Marine Ecosystems Study) observations of non-diatom dominated plankton communities in late autumn and spring, Abstract 309037 presented at 2018 Ocean Sciences Meeting, Portland, OR, 12-16 Feb.

Franzè* G., S. Anderson*, C. Kremer*, J. Kling*, P. Wilburn*, D. Hutchins, E. Litchman, T. Rynearson, S. **Menden-Deuer**. 2018. Direct and indirect effects of temperature and nutrients on plankton community dynamics. Ocean Science Meeting, Portland, Oregon

Morison* F, EL Harvey, J Graff & **S Menden-Deuer**. 2018. Linking Plankton Population Dynamics with Environmental Conditions during Spring in the North Atlantic. Ocean Sciences Meeting, Portland, Oregon

Menden-Deuer S & JM Rowlett. 2018. Menden-Deuer S. 2018. From foe to friend: intra-specific variability in plankton movements and physiology helps unravel underpinnings of observable abundance and distribution patterns. Ocean Sciences Meeting, Portland, Oregon

Menden-Deuer S. 2018. Small but mighty: marine plankton in a dynamic ocean. Department of Ecology, Evolution and Marine Biology, University of California Santa Barbara, CA (*invited*)