Svenja Ryan

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# APPOINTMENTS (accepted, offered)

**Assistant Scientist,** Woods Hole Oceanographic Institution Sep 2023 – present  
Physical Oceanography Department

**Assistant Professor,** University of Maine (declined) Jul 2023

**Research Associate III,** Woods Hole Oceanographic Institution Sep 2022 – Aug 2023  
Supervision: Glen Gawarkiewicz (co-advised by Caroline Ummenhofer)

**Junior Professorship (W1)** in Physical Oceanography (declined) Aug 2022  
GEOMAR, Helmholtz Centre for Ocean Research Kiel, Germany

**Postdoctoral Investigator,** Woods Hole Oceanographic Institution Mar 2022 – Aug 2022  
NSF funded project: Salinity Maximum Intrusions  
Advisors: Glen Gawarkiewicz (co-advised by Caroline Ummenhofer)

**Postdoctoral Fellow/Scholar,** Woods Hole Oceanographic Institution Jun 2019 – Feb 2022**\***  
Funded through a Feodor Lynen Research Fellowship by the Alexander von  
Humboldt Foundation, Germany with support from the WHOI Postdoctoral  
Scholar Program  
Advisors: Caroline Ummenhofer (co-advised by Glen Gawarkiewicz)

**Research Assistant**, Alfred Wegener Institute, June 2018 – Dec 2018  
Helmholtz Centre for Polar and Marine Research

**\***Parental leave taken during 2020-2021 (3 months + 6 months reduced working hours). Official leave taken does not reflect the full impact of life event.

# EDUCATION

**PhD** in Physical Oceanography of the Polar Oceans 2015 – 2018

Alfred Wegener Institute, Helmholtz Centre for Polar and Marine Research,   
Bremerhaven, Germany  
*Thesis: ‘On the Flow of Modified Warm Deep Water toward the Filchner Ronne  
Ice Shelf, Weddell Sea, Antarctica’.*

(Advisor: Prof. Dr. Torsten Kanzow)

**Master of Science** in Climate Physics 2012 - 2014

GEOMAR, Helmholtz Centre for Ocean Research Kiel, Kiel, Germany

*Thesis: ‘The Eastern Inflow of the Warm Water Pool into the Weddell Gyre’*

(Advisor: Prof. Dr. Martin Visbeck)

**Bachelor of Science** in Physics of the Earth System 2009 - 2012

GEOMAR, Helmholtz Centre for Ocean Research Kiel, Kiel, Germany

*Thesis: ‘Near surface currents and hydrography of the Central Irminger Sea’*

(Advisor: Dr. Johannes Karstensen)

# AWARDS & FELLOWSHIPS

Registration waiver, per diem and support for accommodation to attend the Feb 2020 Annual Meeting in 2020 by the Australian Meteorological and Oceanographic Society

Feodor-Lynen Research Fellowship for Postdoctoral Researchers Feb 2019 (24 months) by the Alexander von Humboldt Foundation +

Half WHOI Postdoc Scholarship

Outstanding Student Poster and Pico Award, European Geoscience Union (EGU) Apr 2017 General Assembly (free EGU admission the following year,   
free publication in one of the EGU journals)

Student bursary for attendance at ‘Fluid Dynamics of Sustainability and the Environment’ Apr 2015 summer school at Ecole Polytechnique, Paris, France

# PEER-REVIEWED PUBLICATIONS (\* student publication, † shared first authorship)

1. Sen Gupta A, **S. Ryan** and V. Hernaman. **(2023)** Editorial: Advances in marine heatwave interactions. *Front. Clim*. 5:1177781. https://doi.org/10.3389/fclim.2023.1177781
2. Großelindemann\*†, H., **S. Ryan†**, C.C. Ummenhofer, T. Martin, A. Biastoch **(2022)**, Marine Heatwaves and Their Depth Structure on the Northeast U.S. Continental Shelf, *Frontiers in Climate*, 4:857937, https://doi.org/10.3389/fclim.2022.857937
3. Zhang, Y., N. Yoder, B. Kieft, A. Kukulya, B.W. Hobson, **S. Ryan**, and G. G. Gawarkiewicz **(2022)**, Autonomous Tracking of Salinity-Intrusion Fronts by a Long-Range Autonomous Underwater Vehicle, IEEE Journal of Oceanic Engineering, https://doi.org/10.1109/JOE.2022.3146584
4. Perez\*, E., **S. Ryan**, M. Andres, G.G. Gawarkiewicz, C. C. Ummenhofer, J. Bane, S. Haines **(2021)**, Understanding Physical Drivers of the 2015/16 Marine Heatwaves in the Northwest Atlantic, *Sci Rep* **11,** 17623, https://doi.org/10.1038/s41598-021-97012-0
5. Oosthuizen, W.C., R. R. Reisinger, M. Bester, D. Steinhage, H. Auel, H. Flores, R. Knust, **S. Ryan**, H. Bornemann **(2021)**, Habitat-based density models of pack-ice seal distribution in the southern Weddell Sea, Antarctica. *Mar Ecol Prog Ser* 673:211-227, https://doi.org/10.3354/meps13787
6. Janout, M. A., H. H. Hellmer, T. Hattermann, O. Huhn, **S. Ryan**, J. Sültenfuss, S. Østerhus, L. Stulic, M. Schröder, T. Kanzow **(2021)**, FRIS revisited in 2018: FRIS Revisited in 2018: On the Circulation and Water Masses at the Filchner and Ronne Ice Shelves in the Southern Weddell Sea, *Journal of Geophysical Research: Oceans,* 126 (6), https://doi.org/10.1029/2021JC017269
7. Labrousse, S., **S. Ryan**, F. Roquet, B. Picard, C.R. McMahon, R. Harcourt, M. Hindell, H. Le Goff, A. Lourenco, Y. David, JB. Salleé **(2021)**, Weddell seal behavior during an exceptional oceanographic event in the Filchner-Ronne Ice Shelf in 2017, *Antarctic Science,* 33 (3), pp. 252-264, https://doi.org/10.1017/S0954102021000092
8. **Ryan, S.**, C.C. Ummenhofer, G. Gawarkiewicz, P. Wagner, M. Scheinert, A. Biastoch, C.W. Böning **(2021)**, Depth structure of Ningaloo Nino/Nina events and associated drivers, *Journal of Climate,* 34 (5), 1767–1788, https://doi.org/10.1175/JCLI-D-19-1020.1
9. Ummenhofer, C.C., **S. Ryan**, M.H. England, M. Scheinert, P. Wagner, A. Biastoch, C.W. Böning **(2020)**, Late 20th Century Indian Ocean Heat Content Gain Masked by Wind Forcing, *Geophysical Research Letters,* 47 (22), https://doi.org/10.1029/2020GL088692
10. **Ryan, S.,** H.H. Hellmer, M. Janout, E.D. Darelius, L. Vignes, M. Schröder **(2020)**, Exceptionally Warm and Prolonged Flow of Warm Deep Water Toward the Filchner‐Ronne Ice Shelf in 2017, *Geophysical Research Letters,* 47 (13), https://doi.org/10.1029/2020GL088119
11. Caccavo, J.A., J.R. Ashford, **S. Ryan**, C. Papetti, M. Schröder, L. Zane **(2019)**, Spatially-based population structure and life history connectivity of the Antarctic silverfish along the southern Weddell Sea shelf, *Marine Ecology Progress Series,* 624: 195-212, https://doi.org//10.3354/meps13017
12. Nachtsheim, D., **S. Ryan**, M. Schröder, L. Jensen, W. C. Oosthuizen, M. N. Bester, W. Hagen, H. Bornemann **(2019)**, Winter foraging hotspots of Weddell seals (*Leptonychotes weddellii*) in the southern Weddell Sea, *Progress in Oceanography,* 173, 165-179,

https://doi.org/10.1016/j.pocean.2019.02.013

1. Daae, K., E. Darelius, I. Fer, S. Østerhus, **S. Ryan (2018)**, Wind Stress Mediated Variability of the Filchner Trough Overflow, Weddell Sea, *Journal of Geophysical Research: Oceans*, https://doi.org/10.1002/2017JC013579
2. **Ryan, S.**, T. Hattermann, E. Darelius, and M. Schröder **(2017)**, Seasonal cycle of hydrography on the eastern shelf of the Filchner Trough, Weddell Sea, Antarctica, *Journal of Geophysical Research: Oceans, 122*, 6437-6453, https://doi.org/10.1002/2017JC012916
3. **Ryan, S.**, M. Schröder, O. Huhn, and R. Timmermann **(2016)**, On the warm inflow at the eastern boundary of the Weddell Gyre, *Deep-Sea Research Part I: Oceanographic Research Papers, 107*, 70- 81, https://doi.org/10.1016/j.dsr.2015.11.002

# PUBLICATIONS IN PREPARATION (\* student publication)

1. **Ryan , S.**, G.G. Gawarkiewicz, A. Kukulyaet al.,Using an Adaptive Sampling Approach to Investigate Driving Mechanisms of Onshore Salinity Maximum Intrusions on the Southern New England Continental Shelf
2. **Ryan, S.**, C.C. Ummenhofer, G.G. Gawarkiewicz*,* Seasonal to Interannual Variability of Salinity on the Northeast U.S. Continental Shelf and Links to Large-Scale North Atlantic variability
3. Gawarkiewicz, G.G., **S. Ryan**, L. Lobert et al., Mapping the Three-Dimensional Structure of a Mid-Depth Salinity Maximum Intrusion on the Continental Shelf South of New England
4. Schefler\*, A., C.C. Ummenhofer, and **S. Ryan**, Intensifying and Expanding Oxygen Minimum Zones in the California and Humboldt Upwelling Systems Linked to Changes in the Hadley Circulation,
5. Liu, Y., C. Braun, **S. Ryan**, A. Smyth, F. Ventra, C. Daiek, Fishing Costs under Climate Change,

# OTHER PUBLICATIONS

**Ryan, S.** (2018): On the flow of Modified Warm Deep Water toward the Filchner Ronne Ice Shelf, Weddell Sea, Antarctica, Bremerhaven, 171 pp. *PhD thesis at the University of Bremen,* https://elib.suub.uni-bremen.de/peid/D00106826.html

# FUNDED PROPOSALS

1. Ummenhofer, C.C (PI), G. Gawarkiewicz (Co-I), R. Parfitt (Co-I), **S. Ryan (Co-I)**,  
   Title: The influence of salinity on stratification over the Northeast U.S. shelf and slope and its implications for weather systems and marine heat waves, ***funded in NASA A.9 Ocean Salinity Science Team, 2022-2025, $592,000***

# MEDIA COVERAGE

China Dialogue, Marine Heatwaves, Jul 2023 - [Link](https://chinadialogueocean.net/en/climate/what-are-marine-heatwaves-climate-change-el-nino/)

NBC, Marine Heatwaves, Ocean Warming, Jul 2023 - [Link](https://www.nbcnews.com/science/science-news/worlds-oceans-are-charts-warm-worst-yet-come-rcna96665)

Vineyard Gazette, Offshore Ocean Observatory, Feb 2023 - [Link](https://vineyardgazette.com/news/2023/02/23/whoi-pioneer-array-leaves-vineyard-waters-south-carolina)

Boston Globe, Gulf of Maine Warming, Feb 2023 - [Link](https://www.bostonglobe.com/2023/02/24/science/gulf-maine-sees-second-hottest-year-record-report-shows-getting-edge-habitability/?p1=HP_Feed_ContentQuery&p1=HP_Feed_ContentQuery)

WHOI press release on Ryan et al., 2021 - [Link](https://www.whoi.edu/press-room/news-release/studies-investigate-marine-heatwaves-shifting-ocean-currents/)

Profile article in WHOI Oceanus Fall 2020 - [Link](https://www.whoi.edu/oceanus/feature/experts-explore-the-ocean-human-health-link/)

Project presentation Oceanhackweek 2020 - [Link](https://www.youtube.com/watch?v=Z3fJMPHRz6U&list=PLA6PlfxWZPLTPQ_OIr3dDPF9FRiHQXoVF&index=2)

Science Magazine Editor’s Choice, Ryan et al., 2020 - [Link](https://science.sciencemag.org/content/368/6498/twil?utm_campaign=toc_sci-mag_2020-06-25&et_rid=631911605&et_cid=3379423&intcmp=trendmd-sci)

# TEACHING & SUPERVISION

Supervision of German undergraduate student for 3 months summer project at WHOI Summer 2022  
(funded through RISE Worldwide fellowship)

Guest lecture in ‘Climate Variability and Diagnostics’ (12.680, led by C. Ummenhofer) Nov 2021   
Title: “High latitude processes in a changing climate”

Instructor for Python Course, WHOI Summer Student Fellow Program (led by Harriet Alexander) Jul 2021

Member PhD committee of Lucie Vignes (Advisor Jean-Baptiste Sallée), 2018 – 2021  
L’OCÉAN, Paris, France

Supervision of remote summer project (instead of originally planned RISE June-Dec 2020  
Worldwide summer fellowship at WHOI) of German undergraduate Mar-Aug 2021  
 student (GEOMAR), and followed by a Bachelor Thesis  
(Title: Marine Heatwaves on the Northeast US continental shelf)

Helper for Data Carpentry for Oceanographers Python workshop series Oct 2020

Co-supervision of Summer Student Fellow Elena Perez, in particular was Summer/Fall 2020  
responsible for all technical and coding matters

Instructor for Matlab tutorial WHOI Summer Student Fellow Program Jun 2020

Teaching Assistant for ‘Climate Variability and Diagnostics’ in MIT-WHOI Joint Program. Fall 2019  
Turned all Matlab tutorials into Matlab Live Scripts and modified content, gave guest  
lecture and helped with assignments.

Assistance with mentoring undergrad student (Nathaniel Cresswell) and Summer/Fall 2019 high school student (Mari McCarthy).

Supervision of Cameroonian female student, Babette Tchonang, from Summer 2017  
Nippon Foundation-POGO Centre of excellence ([NF-POGO CofE](https://pogo-ocean.org/capacity-development/centre-of-excellence/)) for her  
final two-months long project in physical oceanography

# EXPERIENCE AT SEA

8 days on *RV Endeavor* (EN690) to Southern New England Continental Shelf Aug/Sep 2022

10 weeks on *RV Polarstern* (PS96) deploying moorings, CTDs in southern Weddell Sea 2015/2016  
 (Filchner Ronne Ice Shelf), Antarctica.

11 weeks on *RV Polarstern* (PS82) deploying moorings, CTDs in southern Weddell Sea 2013/2014  
 (Filchner Ronne Ice Shelf), Antarctica.

8 weeks on *RV Polarstern* (PS81), deploying moorings, CTDs to Antarctic Peninsula, Jan-Mar 2013   
(Larsen Ice Shelf).

3 days on *RV Alkor*, teaching assistant for student training cruise in the Baltic Sep 2012

5 days on *RV Alkor,* student training cruise in the Baltic Sep 2011

# CONFERENCE PROCEEDINGS (\* student presentation)

**Ryan, S.**, C.C. Ummenhofer, D. Ehrens (2023), *Marine Heatwaves – Ocean Research Through Art*, European Geoscience Union (EGU) General Assembly, Vienna, Austria, Apr 2023 (presented by Caroline Ummenhofer)

Schefler\*, A., C.C. Ummenhofer, **S. Ryan** (2023), *Intensifying and Expanding Oxygen Minimum Zones in the California and Humboldt Upwelling Systems Linked to Changes in the Hadley Circulation*, Poster presentation at American Meteorological Society (AMS) Annual Meeting, Jan 2023  
(**student award winner**)

**Ryan, S.**, C.C. Ummenhofer, G.G. Gawarkiewicz (2022), *Seasonal to Interannual Variability of Salinity on the Northeast U.S. continental shelf,* AGU Fall Meeting, Dec 12-16, 2022, Chicago, IL, USA

**Ryan, S.,** G. Gawarkiewicz (2022), *Onshore migrations of the Shelfbreak Front in the Mid-Atlantic Bight*. Oral presentation at European Geoscience Union (EGU) General Assembly, Apr 3 - 8, 2022, Vienna, Austria.

Großelindemann\*, H., **S. Ryan**, C.C. Ummenhofer, T. Martin, A. Biastoch (2022*), Marine Heatwaves and their Depth Structures on the Northeast US Continental Shelf.* Oral presentation atEuropean Geoscience Union (EGU) General Assembly, Apr 3 - 8, 2022, Vienna, Austria.

Großelindemann\*, H., **S. Ryan**, C.C. Ummenhofer, T. Martin, A. Biastoch (2022*), Marine Heatwaves and their Depth Structures on the Northeast US Continental Shelf.* Oral presentation at Ocean Sciences Meeting, Feb 27– Mar 4, 2022, virtual conference (presented by myself)

**Ryan, S.**, H. Großelindemann, C.C. Ummenhofer, G.G. Gawarkiewicz, T. Martin, A. Biastoch, D. Ehrens (2021), *Marine Heatwaves off the Northeast U.S. coast*. Poster presentation at Pattullo Conference, Oct 24 - 27, 2021, Airlie Center in Warrenton, VA

Perez\*, E., **S. Ryan**, M. Andres, G. Gawarkiewicz, P. Wagner, M. Scheinert, A. Biastoch, C.W. Böning (2020), *Understanding Physical Drivers of the 2016 Marine Heatwave in the Northwest Atlantic.* Poster presentation at AGU Fall Meeting, Dec 1 – 17, 2020, virtual conference

**Ryan, S.**, C.C. Ummenhofer, G. Gawarkiewicz, P. Wagner, M. Scheinert, A. Biastoch, C.W. Böning (2020),  *Variability of Marine Heatwave Events in the Southeast Indian Ocean,* Poster presentation at the Ocean Sciences Meeting, Feb 16 - 21, 2020, San Diego, California, USA

**Ryan S.**, C.C. Ummenhofer, G. Gawarkiewicz, M. Scheinert, A. Biastoch, C.W. Böning (2020*), Drivers and depth-structure of Ningaloo Niño/Niña using an Ocean General Circulation Model.* Oral presentation at theAustralian Meteorological and Oceanographic Society (AMOS): 27th Annual Conference and the International Conference on Indian Ocean Meteorology and Oceanography, Feb 10 – 14, 2020, Perth, Australia

Hellmer, H.H., **S. Ryan,** M. Schröder, M. Janout, E. Darelius (2019*), Unprecedented Strong Modified Warm Deep Water Flow towards Filchner Ronne Ice Shelf in 2017.* Oral presentation at European Geoscience Union (EGU) General Assembly, Apr 7 - 12, 2019, Vienna, Austria.

**Ryan, S.**, H.H. Hellmer, M. Schröder, M. Janout, E. Darelius (2018), *Reoccurrence of a Strong Modified Warm Deep Water Flow toward the Filchner Ronne Ice Shelf*. Oral presentation at the 32nd International Forum for Research into Ice Shelf Processes (FRISP), Sep 3 -6, 2018, Aussois, France

**Ryan, S.,** M. Schröder, R. Timmermann, T. Hattermann, T. Kanzow (2018*), On the Modified Warm Deep Water Flow toward the Filchner Ronne Ice Shelf.* Poster presentation at European Geoscience Union (EGU) General Assembly, Apr 8 - 13, 2018, Vienna, Austria.

**Ryan, S.**, M. Schröder, R. Timmermann, T. Hattermann, T. Kanzow (2018), *On the Modified Warm Deep Water Flow toward the Filchner Ronne Ice Shelf: Observations and Model Results*. Oral presentation at the Ocean Sciences Meeting, Feb 11 - 16, 2018, Portland, Oregon, USA

Darelius, E., I. Fer, S. Østerhus, J.B. Salleé, **S. Ryan** (2017), *Seasonal outflow of Ice Shelf Water across the Filchner Ice Shelf front*. Poster presentation at the 31st International Forum for Research into Ice Shelf Processes (FRISP), June 19 - 22, 2017, Bergen, Norway

**Ryan, S.**, R. Timmermann, M. Schröder (2017), *Towards new eddy-resolving simulations with FESOM in the southwestern Weddell Sea*. Poster presentation at the 31st International Forum for Research into Ice Shelf Processes (FRISP), June 19 - 22, 2017, Bergen, Norway

**Ryan, S.**, T. Hattermann, E. Darelius, M. Schröder (2017*), Seasonal hydrography at the eastern Flank of the Filchner Trough.* Poster presentation at European Geoscience Union (EGU) General Assembly,  
Apr 23 – 28, 2017, Vienna, Austria.

(Winner of the Outstanding Student Poster and Pico Award)

**Ryan, S.**, M. Schröder, T. Hattermann, E. Darelius (2016), *Seasonal variability on the eastern shelf of the Filchner Depression from 2-year long moored measurements, Weddell Sea*. Oral presentation at the 30th International Forum for Research into Ice Shelf Processes (FRISP), Oct 3 - 6, 2016*,* Gothenburg, Sweden.

Bornemann, H., C.W.C. Oosthuizen, D. Steinhage, M. Schröder, **S. Ryan**, R.R. Reisinger, M.N. Bester (2016), *Antarctic Pack Ice Seals and oceanographic features at the Filchner Outflow System in the southern Weddell Sea*. Poster presentation atXXXIV SCAR Biennial Meetings & 2016 Open Science Conference, August 19 - September 1, 2016, Kuala Lumpur, Malaysia

Nachtsheim, D., **S. Ryan**, M. Schröder, L. Jensen, C.W.C. Oosthuizen, M.N. Bester, H. Bornemann (2016): *Winter foraging hotspots and habitat use of Weddell seals (Leptonychotes weddellii) at the Filchner Outflow System, southern Weddell Sea*. Poster presentation atXXXIV SCAR Biennial Meetings & 2016 Open Science Conference, August 19 - September 1, 2016, Kuala Lumpur, Malaysia

# SELECTED SEMINARS

Research seminar for Assistant Scientist, WHOI Apr 2023  
Title: *From AMOC to Salinity Intrusions: A Multi-scale, Multi-process View  
 of the Northwest Atlantic*

Buoy lunch seminar in the Physical Oceanography department at WHOI Jan 2023  
Title: *Battling at multiple fronts – the quest to understand ocean variability on the Northeast U.S. continental shelf*

Colloquium for Assistant Professor, School of Marine Sciences, University of Maine Oct 2022  
Title: *Marine Heatwaves and their Depth Structure on the Northeast U.S. Continental Shelf*

Woods Hole Oceanographic Institution (WHOI), Physical Oceanography seminarJun 2022  
Title: *Diving beneath the surface: Regional studies of marine heatwaves and their  
depth structure*

W1 Junior Professorship Colloquium, GEOMAR Helmholtz Center for Ocean Research, Mar 2022  
Kiel, Germany  
Title: *Looking beneath the surface: Regional studies of marine heatwaves and  
their depth structure*

Lunch seminar in Department of Estuarine and Ocean Sciences seminar, Feb 2022  
School of Marine Sciences and Technology (SMAST*), invited*Title: *Marine Heatwaves and their Depth Structure on the Northeast U.S. Continental Shelf*

Climate seminar at the Alfred Wegener Institute (AWI), Helmholtz Center for Polar Jan 2022  
and Marine Research, Bremerhaven Germany  
Title: *Marine Heatwaves and their Depth Structure on the Northeast U.S. Continental Shelf*

Marine heatwave group Australia as part of the CLEX ARC Centre of ExcellenceApr 2021  
Title: *Depth Structure of Ningaloo Niño/Niña and associated drivers*

Lunch seminar in Department of Estuarine and Ocean Sciences seminar, Jan 2021  
School of Marine Sciences and Technology (SMAST), *invited*Title*: Regional Drivers and depth-structures of Marine Heatwaves*

Woods Hole Oceanographic Institution (WHOI), Physical Oceanography seminarMar 2020  
Title: *Strong and prolonged flow of warm water toward the   
Filchner-Ronne Ice Shelf in 2017*

Seminar at Scottish Association for Marine Science (SAMS), Oban, Scotland, *invited* Jan 2019

# OUTREACH EVENTS

# Ocean Encounters virtual series from Woods Hole Oceanographic Institution Sep 2022 Title: “Heat waves: Extreme heat on land – and in the ocean” ([link to event recording](https://www.youtube.com/live/fiZZiZjZEIs?feature=share))

# Guest at Morning Speaker Program at Our Sister’s School in New Bedford ([link to website](https://www.oursistersschool.org/)) Sep 2022

# Artist Talk with Deb Ehrens as part of *the Art drive* ([link to website](https://the-art-drive.com/events/))Aug 2022

# Invited panelist for Earth Day 2022 webinar, hosted by the German and French Consulate Apr 2022 in Boston ([link to event recording](https://youtu.be/wIvZAfszT18))

# Professional Development Webinar on Interdisciplinary Storytelling: Art & Science Mar 2022 featuring the Marine Heatwave project hosted by Massachusetts Institute of Technology & Nord Anglia Education ([link to event recording](https://youtu.be/gUfmBeWArfk))

# Talk at McAllister Gallery Docent visit to the Woods Hole Oceanographic Institution Aug 2021

# Public talk about Art-Science project at South Coast Surface Design, New Bedford, MA June 2021

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# OTHER ACTIVITIES

SYNERGY II project, Working in pairs of scientist and artist (Deb Ehrens, [link to website](https://debehrens.com/marine-heatwaves)) 2020 - present   
to communicate our science through art ([link to website](https://www.synergyexperience.org))

Exhibitions in Falmouth Art Center (May 2021, Jan 2023), New Bedford (June 2021), 2021-present  
 University of Rhode Island, Providence Campus (June 2022)

Research visit (2.5 weeks) at GEOMAR, Helmholtz Centre for Ocean Research, Jan 2022  
 Kiel, Germany (Research division: Ocean Circulation and Climate Dynamics)

Participation in Oceanhackweek (1 week, remote), organized by University of Aug 2020  
 Washington eScience Institute (presented results of group project [link](https://www.youtube.com/watch?v=Z3fJMPHRz6U&list=PLA6PlfxWZPLTPQ_OIr3dDPF9FRiHQXoVF&index=2), [GitHub](https://github.com/oceanhackweek/ohw20-proj-ooi-profiles-section) repository)

Research visit (2 weeks) University of New South Wales, Australia Feb 2020

Participation (2 weeks) in rotating-tank experiments at the Coriolis platform at LEGI, Sep 2017   
Grenoble, France as part of the TOBACO project (Topographic barriers controlling warm  
water inflow and Antarctic ice shelf melting), led by Dr. Elin Darelius and Prof. Anna Wålin.

Two-week summer school ‘Fluid Dynamics of Sustainability and the Environment’, Jul 2017   
École Polytechnique, Paris, France ([link to website](http://www.fdse.org/))

One-week summer school in ocean/atmosphere time series analysis: theory and practice II May 2017 (Hands-on Matlab practice) University of Oslo.

Course lecturer: Dr. Jonathan Lilly, Course Leader: Prof. Joseph LaCasce

Research stay (4 weeks) at the Geophysical Institute, University of Bergen May 2016  
hosted by Dr. Elin Darelius and Dr. Svein Østerhus.

Various contracts as student research assistant, 2009 – 2014  
GEOMAR, Helmholtz Centre for Ocean Research, Kiel, Germany.

# ACADEMIC SERVICE

Invited panelist for NASA proposal review panel to assist with ROSES PO-22 solicitation Sep 2022

Co-Editor for Special Issue on Marine Heatwaves, in *Frontiers of Climate* 2021/2022(led by Sarah Perkins-Kirkpatrick, UNSW, Sydney, Australia)

Member of the WHOI Postdoctoral Association (PO representative) 2021/2022

Member of seminar coordinator team for Physical Oceanography department at WHOI 2021/2022

Participation in IAPSO Early Career Scientist group review of IPCC AR6, 2021

Judge for Student Presentation Evaluation Program at Ocean Sciences, San Diego 2020

Judge for Outstanding Student Poster and PICO (OSPP) award at the European 2018 & 2022  
Geophysical Union, General Assembly, Vienna, Austria,

Reviewer for: Nature, Nature Climate Change, Nature Communications, Geophysical Research Letters, Journal of Geophysical Research: Oceans, Ocean Science, Intergovernmental Panel on Climate Change (IPCC), State of the Planet - Copernicus

April 2023