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BIOGRAPHY

I am a physical oceanographer who uses ocean observations to investigate ocean dynamics and circulation in a changing climate. I have a particular interest in problems spanning scales (from turbulence to the large-scale overturning circulation) or spheres (e.g., biogeosphere), and in methods that leverage traditional observations with new platforms and satellite data.

| Professional Experience | |
|---|--------------|
| Professor, Universität Hamburg | 2022-present |
| Science Leader, National Oceanography Centre | 2022 |
| Principal Research Scientist, National Oceanography Centre | 2018–22 |
| Associate Professor , University of Southampton, UK | 2016–2018 |
| Visiting Scientist, NASA Jet Propulsion Laboratory, USA | 2016 |
| Lecturer , University of Southampton, UK | 2012–16 |
| Senior Research Fellow, National Oceanography Centre, UK | 2009–12 |
| Education | |
| Ph.D. in Physical Oceanography, University of Washington (with Peter Rhin | |
| M.Sc. in Applied Mathematics, University of Washington | 2009 |
| M.Sc. in Oceanography , University of Washington (with Eric Kunze) | 2005 |
| A.B. in Applied Mathematics, Harvard University (with Ana Barros) | 2002 |
| Awards, Honors & Fellowships | |
| Ocean Observing Team Award, The Oceanography Society | 2021 |
| Nicholas P. Fofonoff award, American Meteorological Society | 2021 |
| EGU Outstanding Early Career Scientist award | 2017 |
| Steinbach Scholar at Woods Hole Oceanographic Institution (WHOI) | 2016 |
| Vice Chancellor's teaching award (UoS FNES, £1000 prize) | 2015 |
| Fellow of the Higher Education Academy (FHEA) | 2015 |
| Excellence in Teaching Award, category: Best Feedback (UoS FNES) | 2014 |
| Outstanding student paper award, AGU/ASLO Ocean Sciences | 2008 |
| WHOI Geophysical Fluid Dynamics Fellowship | summer 2004 |
| UW Program on Climate Change Fellowship | summer 2002 |
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| Summer Undergraduate Research Fellow at Scripps Inst. of Oceanogr. | |
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FUNDING

EU Horizon Europe, EPOC (PI). €8M.

2022-27

with D. Desbruyeres, L. de Steur, V. Gunn, R. Ingvaldsen, J. Marotzke, R. Msadek, M. Rhein, J. Robson, D. Thornalley, W. von Appen. Explaining and Predicting the Ocean Conveyor.

UKRI-funded (ERC) fellowship PycnoGen (co-l). €3.5M.

2022-27

with A. C. Naveira Garabato (PI), Generation of the global ocean's internal pycnocline in the ice-covered Southern Ocean.

| NERC Highlight topic, DEFIANT (co-l). £5M. with J. Wilkinson (PI), A. Shepherd, D. Feltham, M. Meredith, A. Naveira Garabato. Understanding the Antarctic sea-ice decline in 2016, its representation in models and future predictions. | 2021–25 |
|--|----------------------------|
| PLOCAN Eastern Boundary Current from Gliders (EBC-glider) (co-l). with A. Hernandez-Guerra (PI), Evaluate autonomous measurements for dynamic height and the contribution of local upwelling processes. | 2023 |
| NERC UK BGC Argo array (co-I). £1.5M. with B. A. King (PI), N. Briggs, N. P. Holliday, M. S. Donnelly, UK contribution to a global integrated biogeochemical autonomous ocean sensing network. | 2021–23 |
| NERC Next generation multi-disciplinary array (BGC-RAPID) (co-l). £570k. with P. J. Brown (PI), S. Loucaides, S. Fowell, D. Rayner, Install lab-on-a-chip BGC sensors (pH, TAlk, nitrate, phosphate) and pCO $_2$ and pH sensors on the RAPID eastern boundary array. | 2021–22 |
| NERC Net Zero Oceanographic Capability (NZOC) (co-I). £250k. with L. Storey (PI), NERC scoping project to inform planning for the future low carbon oceanographic research capability. | 2020 |
| NERC Large Grant, DeCAdeS (co-I), NE/T012714/1. £3.4M. with A. Jenkins (PI), A. Naveira Garabato, T. Bracegirdle, A. Hogg, D. Jones, P. Holland, L. Boehme, A. G. Nurser, A. Phillips. Drivers of Oceanic Change in the Amundsen Sea. | 2020–25 |
| Lloyd's Register autonomy demonstrator, ALADDIN (co-l). £165k. Assuring Long-term Autonomy through Detection and Diagnosis of Irregularities in Normal operation | 2020 |
| ERC Starting Grant Fellowship, TERIFIC (PI), 803140. €1,999k. Freshwater pathways and convection/restratification in the Labrador Sea. | 2018–23 |
| NERC Standard grant, BLT Recipes (co-l), NE/S001433/1. £889k. with A. Naveira Garabato (PI), MJ. Messias. To assess the influence of bottom boundary layer turbulence on overturning. | 2018–23 |
| NERC Standard grant, DynOPO (co-l), NE/K013181/1. £968k. with A. Naveira Garabato (PI), M. Meredith, P. Abrahamsen, K. Nicholls. Determine Orkney Passage outflow variability of Antarctic Bottom Water. | 2015–19 |
| NERC Standard grant, MerMEED (PI), NE/N001745/1. £1,048k. with A. Naveira Garabato. Determine the levels and mechanisms of dissipation of mesoscale eddies at the western boundaries of the oceans. | 2016–19 |
| NERC Technology grant, FreshWATERS (co-l), NE/P003176/1. £171k. with A. Sóbester (PI). Design air-launched technology for drifter deployment. | 2016–17 |
| NERC Sensors on AUVs, GliSENEx (co-I), NE/J020184/1. £150k with A. Martin (PI), S. Painter. Use novel sensors on a Seaglider as part of the FASTNet project on UK shelf-edge exchange. | 2013–17 |
| Leverhulme Trust Research Fellowship (PI), £14k A basinwide approach to the AMOC. | 2016 |
| Southampton Marine & Maritime Institute stimulus fund (co-I), £15k. with A. Sobester (PI), A. Naveira Garabato, A. Phillips. Proof-of-concept exercises using an remotely piloted vehicle to deploy an AUV. | 2016 |
| Huckabay Teaching Fellowship (UW) National Science Foundation Graduate Research Fellowship, 3 years National Defense Science & Engineering Graduate, Fellowship, 2 years | 2008 2004–07 2002–04 |

| Instructor, 63-710 Ocean measurements (practical), UHH Instructor, 63-716/7 Regional Oceanography, UHH Instructor, 63-705/6 Observational methods and remote sensing, UHH Instructor, Proposal writing (5 sessions) for ECRs, NOC Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC Invited lecturer, ISNAO summer school, Bonne Bay, Canada Instructor, SOES3010/6005: Large Scale Ocean Processes, UoS co-Instructor, SOES2025: Methods in Oceanography, UoS 2014–17 | | |
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| Qaqortoq, Greenland (gliders), Small boat, 2 weeks DecDec 2021RRS Discovery (instrument allocations), RAPID moorings cruise, 8 weeksDec 2020RRS James Cook (instrument allocations), RAPID moorings cruise, 4 weeksMar 2020Qaqortoq, Greenland (team lead), Small boat, 1 week Aug, 2 weeks DecDec 2019R/V Walton Smith (training the PSO), MerMEED VMP/ADCP cruise, 2 weeksMar 2018R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 2 weeksOct 2017RRS James Clark Ross (Autosub), DynOPO process cruise, 7.5 weeksMar 2017R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 1 weekDec 2016RRS James Clark Ross (CTD), DynOPO moorings & A23 section, 5 weeksMar 2015RRS James Cook (underway/ADCP), RAPID moorings cruise, 6 weeksApr 2014R/V Knorr (as UK PSO), RAPID moorings cruise, 3 weeksApr 2011RRS Discovery (moorings), RAPID moorings cruise, 5 weeksDec 2010R/V Wecoma (microstructure/XCP), Hawaiian ridge waves & mixing, 3 weeksAug 2000R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeksAug 2000R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeksAug 2000TEACHING EXPERIENCE(UHH = Hamburg, UoS = Southampton)Instructor, 63-713 ADVANCE: Sea-going oceanography, UHH2024Instructor, 63-716/7 Regional Oceanography, UHH2024Instructor, Froposal writing (5 sessions) for ECRs, NOC2019Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC2018Invited lecturer, ISNAO summer school, Bonne Bay, Canada2017Instructor, SOES3018: Falmouth fieldw | FIELD EXPERIENCE (responsibility in brackets) | |
| RRS Discovery (instrument allocations), RAPID moorings cruise, 8 weeks RRS James Cook (instrument allocations), RAPID moorings cruise, 4 weeks Qaqortoq, Greenland (team lead), Small boat, 1 week Aug, 2 weeks Dec R/V Walton Smith (training the PSO), MerMEED VMP/ADCP cruise, 2 weeks R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 2 weeks Qot 2017 RRS James Clark Ross (Autosub), DynOPO process cruise, 7.5 weeks Mar 2017 RV Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 1 week RRS James Clark Ross (CTD), DynOPO moorings & A23 section, 5 weeks RRS James Cook (underway/ADCP), RAPID moorings cruise, 6 weeks RRS James Cook (underway/ADCP), RAPID moorings cruise, 6 weeks RRS James Cook (underway/ADCP), RAPID moorings cruise, 6 weeks RPS James Cook (underway/ADCP), RAPID moorings cruise, 5 weeks RV Wecoma (CTD/XCP), Internal waves over the Oregon slope, 2 weeks R/V Wecoma (microstructure/XCP), Hawaiian ridge waves & mixing, 3 weeks R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2002 RXY Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2002 TEACHING EXPERIENCE (UHH = Hamburg, UOS = Southampton) Instructor, 63-713 ADVANCE: Sea-going oceanography, UHH 2024 Instructor, 63-716/7 Regional Oceanography, UHH 2024 Instructor, 63-716/7 Regional Oceanography, UHH 2024 Instructor, 705/6 Observational methods and remote sensing, UHH 2022, 2023 Instructor, Proposal writing (5 sessions) for ECRs, NOC 2019 Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC 2018 Invited lecturer, ISNAO summer school, Bonne Bay, Canada 2017 Instructor, SOES3010/6005: Large Scale Ocean Processes, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2013 Instructor, SOES3016: Oceanography from Space, UoS 3012 Instructor, OCN506: Communicating Science with Figures, UW 2008 Teaching assistant, OCN512: Intro to Fluid Dynamics, UW | R/V MS Merian (bottom pressure sensors), EPOC deployment cruise, 3 weeks | Sep 2022 |
| RRS James Cook (instrument allocations), RAPID moorings cruise, 4 weeks Qaqortoq, Greenland (team lead), Small boat, 1 week Aug, 2 weeks Dec R/V Walton Smith (training the PSO), MerMEED VMP/ADCP cruise, 2 weeks R/V Walton Smith (training the PSO), MerMEED VMP/ADCP cruise, 2 weeks R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 2 weeks RRS James Clark Ross (Autosub), DynOPO process cruise, 7.5 weeks Mar 2017 R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 1 week Dec 2016 RRS James Clark Ross (CTD), DynOPO moorings & A23 section, 5 weeks RRS James Cook (underway/ADCP), RAPID moorings cruise, 6 weeks Apr 2014 R/V Knorr (as UK PSO), RAPID moorings cruise, 3 weeks Apr 2011 RRS Discovery (moorings), RAPID moorings cruise, 5 weeks R/V Wecoma (CTD/XCP), Internal waves over the Oregon slope, 2 weeks R/V Wecoma (microstructure/XCP), Hawaiian ridge waves & mixing, 3 weeks Aug 2002 R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2002 TEACHING EXPERIENCE (UHH = Hamburg, UoS = Southampton) Instructor, 63-713 ADVANCE: Sea-going oceanography, UHH Instructor, 63-710 Ocean measurements (practical), UHH 2024 Instructor, 63-710 Ocean measurements (practical), UHH 2024 Instructor, 63-705/6 Observational methods and remote sensing, UHH 2022, 2023 Instructor, Proposal writing (5 sessions) for ECRs, NOC 2019 Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC 2018 Invited lecturer, ISNAO summer school, Bonne Bay, Canada 1 instructor, SOES3010/6005: Large Scale Ocean Processes, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2014–17 co-Instructor, SOES3016: Oceanography from Space, UoS 1012–14 Project coordinator, SOES3035: Research training, UoS 1013 Instructor, OCN506: Communicating Science with Figures, UW 2008 Teaching assistant, OCN512: Intro to Fluid Dynamics, UW | Qaqortoq, Greenland (gliders), Small boat, 2 weeks Dec | Dec 2021 |
| Qaqortoq, Greenland (team lead), Small boat, 1 week Aug, 2 weeks DecDec 2019R/V Walton Smith (training the PSO), MerMEED VMP/ADCP cruise, 2 weeksMar 2018R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 2 weeksOct 2017RRS James Clark Ross (Autosub), DynOPO process cruise, 7.5 weeksMar 2017R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 1 weekDec 2016RRS James Clark Ross (CTD), DynOPO moorings & A23 section, 5 weeksMar 2015RRS James Cook (underway/ADCP), RAPID moorings cruise, 3 weeksApr 2014R/V Knorr (as UK PSO), RAPID moorings cruise, 3 weeksApr 2011RRS Discovery (moorings), RAPID moorings cruise, 5 weeksDec 2010R/V Wecoma (CTD/XCP), Internal waves over the Oregon slope, 2 weeksSep 2005R/V Wecoma (microstructure/XCP), Hawaiian ridge waves & mixing, 3 weeksAug 2002R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeksAug 2002TEACHING EXPERIENCE(UHH = Hamburg, UoS = Southampton)Instructor, 63-713 ADVANCE: Sea-going oceanography, UHH2024Instructor, 63-716/7 Regional Oceanography, UHH2024Instructor, Froposal writing (5 sessions) for ECRs, NOC2019Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC2018Instructor, SOES3010: Methods in Oceanography, UoS2014-17co-Instructor, SOES3018: Falmouth fieldwork course, UoS2014-17co-Instructor, SOES3018: Falmouth fieldwork course, UoS2011-11roject coordinator, SOES3035: Research training, UoS2012-14Project coordinator, SOES3035: Research training, UoS2012-14< | RRS Discovery (instrument allocations), RAPID moorings cruise, 8 weeks | Dec 2020 |
| R/V Walton Smith (training the PSO), MerMEED VMP/ADCP cruise, 2 weeks R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 2 weeks Oct 2017 RRS James Clark Ross (Autosub), DynOPO process cruise, 7.5 weeks Mar 2017 R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 1 week Dec 2016 RRS James Clark Ross (CTD), DynOPO moorings & A23 section, 5 weeks Mar 2015 RRS James Cook (underway/ADCP), RAPID moorings cruise, 6 weeks Apr 2014 R/V Knorr (as UK PSO), RAPID moorings cruise, 3 weeks Apr 2011 RRS Discovery (moorings), RAPID moorings cruise, 5 weeks R/V Wecoma (CTD/XCP), Internal waves over the Oregon slope, 2 weeks R/V Wecoma (microstructure/XCP), Hawaiian ridge waves & mixing, 3 weeks R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2002 RAV Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2000 TEACHING EXPERIENCE (UHH = Hamburg, UoS = Southampton) Instructor, 63-713 ADVANCE: Sea-going oceanography, UHH 2024 Instructor, 63-716/7 Regional Oceanography, UHH 2024 Instructor, 63-710 Ocean measurements (practical), UHH 2024 Instructor, 63-7705/6 Observational methods and remote sensing, UHH 2022, 2023 Instructor, Proposal writing (5 sessions) for ECRs, NOC 2019 Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC Instructor, SOES3010/6005: Large Scale Ocean Processes, UoS 2014–17 co-Instructor, SOES3010/6005: Large Scale Ocean Processes, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2017 co-Instructor, SOES3016: Oceanography from Space, UoS 2012–14 Project coordinator, SOES3035: Research training, UoS Instructor, SOES3016: Oceanography from Space, UoS 2012–14 Project coordinator, SOES3035: Research training, UoS 1013 Instructor, OCN506: Communicating Science with Figures, UW 2008 Teaching assistant, OCN512: Intro to Fluid Dynamics, UW | RRS James Cook (instrument allocations), RAPID moorings cruise, 4 weeks | Mar 2020 |
| R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 2 weeks Mar 2017 RRS James Clark Ross (Autosub), DynOPO process cruise, 7.5 weeks Mar 2017 RV Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 1 week Dec 2016 RRS James Clark Ross (CTD), DynOPO moorings & A23 section, 5 weeks RRS James Cook (underway/ADCP), RAPID moorings cruise, 6 weeks RV Knorr (as UK PSO), RAPID moorings cruise, 3 weeks Apr 2011 RRS Discovery (moorings), RAPID moorings cruise, 5 weeks R/V Wecoma (CTD/XCP), Internal waves over the Oregon slope, 2 weeks R/V Wecoma (microstructure/XCP), Hawaiian ridge waves & mixing, 3 weeks R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2002 R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2000 TEACHING Experience (UHH = Hamburg, UoS = Southampton) Instructor, 63-713 ADVANCE: Sea-going oceanography, UHH 2024 Instructor, 63-716/7 Regional Oceanography, UHH 2023, 2024 Instructor, 63-705/6 Observational methods and remote sensing, UHH 2024. 2023 Instructor, Proposal writing (5 sessions) for ECRs, NOC Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC Instructor, SOES3010/6005: Large Scale Ocean Processes, UoS 2011 Instructor, SOES3010/6005: Large Scale Ocean Processes, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2012–14 Project coordinator, SOES3035: Research training, UoS Instructor, SOES3016: Oceanography from Space, UoS Instructor, SOES3016: Oceanography from Space, UoS Instructor, OCN506: Communicating Science with Figures, UW 2008 Teaching assistant, OCN512: Intro to Fluid Dynamics, UW | Qaqortoq, Greenland (team lead), Small boat, 1 week Aug, 2 weeks Dec | Dec 2019 |
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| R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 1 week RRS James Clark Ross (CTD), DynOPO moorings & A23 section, 5 weeks Mar 2015 RRS James Cook (underway/ADCP), RAPID moorings cruise, 6 weeks Apr 2014 RV Knorr (as UK PSO), RAPID moorings cruise, 3 weeks Apr 2011 RRS Discovery (moorings), RAPID moorings cruise, 5 weeks R/V Wecoma (CTD/XCP), Internal waves over the Oregon slope, 2 weeks R/V Wecoma (microstructure/XCP), Hawaiian ridge waves & mixing, 3 weeks R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2002 R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2000 TEACHING EXPERIENCE (UHH = Hamburg, UoS = Southampton) Instructor, 63-713 ADVANCE: Sea-going oceanography, UHH 2024 Instructor, 63-716/7 Regional Oceanography, UHH 2024 Instructor, 63-705/6 Observational methods and remote sensing, UHH 2022, 2023 Instructor, Proposal writing (5 sessions) for ECRs, NOC 2019 Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC 2018 Invited lecturer, ISNAO summer school, Bonne Bay, Canada 2017 Instructor, SOES3010/6005: Large Scale Ocean Processes, UoS 2014—17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2014—17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2015 2017 Instructor, SOES3016: Oceanography from Space, UoS 1011 Instructor, SOES3016: Oceanography from Space, UoS 1012 Instructor, OCN506: Communicating Science with Figures, UW 2008 Teaching assistant, OCN512: Intro to Fluid Dynamics, UW | R/V Walton Smith (as PSO), MerMEED VMP/ADCP cruise, 2 weeks | Oct 2017 |
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| RRS Discovery (moorings), RAPID moorings cruise, 5 weeks R/V Wecoma (CTD/XCP), Internal waves over the Oregon slope, 2 weeks R/V Wecoma (microstructure/XCP), Hawaiian ridge waves & mixing, 3 weeks R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2000 TEACHING EXPERIENCE (UHH = Hamburg, UoS = Southampton) Instructor, 63-713 ADVANCE: Sea-going oceanography, UHH 2024 Instructor, 63-710 Ocean measurements (practical), UHH 2023, 2024 Instructor, 63-716/7 Regional Oceanography, UHH 2023, 2024 Instructor, 63-705/6 Observational methods and remote sensing, UHH 2022, 2023 Instructor, Proposal writing (5 sessions) for ECRs, NOC 2019 Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC 2018 Invited lecturer, ISNAO summer school, Bonne Bay, Canada 2017 Instructor, SOES3010/6005: Large Scale Ocean Processes, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2017 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2012–14 Project coordinator, SOES3035: Research training, UoS 1nstructor, SOES3016: Oceanography from Space, UoS Instructor, SOES3016: Communicating Science with Figures, UW 2008 Teaching assistant, OCN512: Intro to Fluid Dynamics, UW | RRS James Cook (underway/ADCP), RAPID moorings cruise, 6 weeks | Apr 2014 |
| R/V Wecoma (CTD/XCP), Internal waves over the Oregon slope, 2 weeks R/V Wecoma (microstructure/XCP), Hawaiian ridge waves & mixing, 3 weeks R/V Revelle (CTD/radiosonde), Juan de Fuca ridge movement, 2 weeks Aug 2000 TEACHING EXPERIENCE (UHH = Hamburg, UoS = Southampton) Instructor, 63-713 ADVANCE: Sea-going oceanography, UHH 2024 Instructor, 63-710 Ocean measurements (practical), UHH 2024 Instructor, 63-716/7 Regional Oceanography, UHH 2022, 2023 Instructor, 63-705/6 Observational methods and remote sensing, UHH 2022, 2023 Instructor, Proposal writing (5 sessions) for ECRs, NOC 2019 Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC 2018 Invited lecturer, ISNAO summer school, Bonne Bay, Canada 2017 Instructor, SOES3010/6005: Large Scale Ocean Processes, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2017 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2017 co-Instructor, SOES3016: Oceanography from Space, UoS Instructor, SOES3016: Oceanography from Space, UoS Teaching assistant, OCN512: Intro to Fluid Dynamics, UW 2008 | R/V Knorr (as UK PSO), RAPID moorings cruise, 3 weeks | Apr 2011 |
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| TEACHING EXPERIENCE (UHH = Hamburg, UoS = Southampton) Instructor, 63-713 ADVANCE: Sea-going oceanography, UHH 2024 Instructor, 63-710 Ocean measurements (practical), UHH 2024 Instructor, 63-716/7 Regional Oceanography, UHH 2023, 2024 Instructor, 63-705/6 Observational methods and remote sensing, UHH 2022, 2023 Instructor, Proposal writing (5 sessions) for ECRs, NOC 2019 Coordinator & co-Instructor, NEXUSS Statistics & Data Analysis, NOC 2018 Invited lecturer, ISNAO summer school, Bonne Bay, Canada 2017 Instructor, SOES3010/6005: Large Scale Ocean Processes, UoS 2014–17 co-Instructor, SOES2025: Methods in Oceanography, UoS 2014–17 co-Instructor, SOES3018: Falmouth fieldwork course, UoS 2017 co-Instructor, SOES6070: Advanced fieldwork course, UoS 2012–14 Project coordinator, SOES3035: Research training, UoS 2013 Instructor, SOES3016: Oceanography from Space, UoS 2012, 2013 Instructor, OCN506: Communicating Science with Figures, UW 2008 Teaching assistant, OCN512: Intro to Fluid Dynamics, UW 2003 | R/V Wecoma (microstructure/XCP), Hawaiian ridge waves & mixing, 3 weeks | Aug 2002 |
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| co-Instructor, SOES2025: Methods in Oceanography, UoS2014–17co-Instructor, SOES3018: Falmouth fieldwork course, UoS2017co-Instructor, SOES6070: Advanced fieldwork course, UoS2012–14Project coordinator, SOES3035: Research training, UoS2013Instructor, SOES3016: Oceanography from Space, UoS2012, 2013Instructor, OCN506: Communicating Science with Figures, UW2008Teaching assistant, OCN512: Intro to Fluid Dynamics, UW2003 | Invited lecturer, ISNAO summer school, Bonne Bay, Canada | 2017 |
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| Teaching assistant , OCN512: Intro to Fluid Dynamics, UW 2003 | <u> </u> | |
| | | |
| Course assistant, Math 1b: Calculus, Harvard University 2000 | | |
| | Course assistant, Math 1b: Calculus, Harvard University | 2000 |

MENTORSHIP AND SUPERVISION

Postdocs/Research Scientists: Elodie Duyck (2023–present), Louis Clement (2020–22), Darren Rayner (2020–22), Alej Sanchez-Franks (2019–21), Ben Moat (2019–22), Ilona Goszczko (2019–21), Carl Spingys (co-, 2017–20), D. Gwyn Evans (2016–19), Cristian Florindo-Lopez (2016)

PhD students:: Emelie Breunig, Markus Ritschel (co-), Maria-Jesus Rapanague (panel), Morag Forthingham (co-), Chris Auckland (co-), Manish Devana (committee, PhD'23), Delphine Lobelle (co-, PhD'19), Neela Morarji (co-, PhD'18), Freya Garry (PhD'17), Lena Schulze (PhD'16), Victoria Hemsley (co-, PhD'16), Louis Clement (PhD'14)

Supervised >**30 BSc and MSc dissertations (since 2010):** including Jemima Rama[†] (MSci, 2016), Jo Ribeiro[†] (MSci, 2015), Lisa Holton* (BSc, 2013), Maren Richter (Kiel Univ., 2014) and Atul Kumar Yadev (IIT Bhubaneswar, 2013). *dissertation award, †top student award

PROFESSIONAL ACTIVITIES

| Service: | |
|---|--------------|
| UHH MIN Faculty: Committee on research infrastructure | 2023-present |
| CLIVAR AMOC Task Team, co-chair | 2021-present |
| CLIVAR Atlantic Regional Panel (ARP) co-chair | 2021-present |
| CLIVAR Atlantic Regional Panel (ARP) member | 2019–20 |
| Royal Society Newton International Fellowships, Physical Sciences | 2018–22 |
| NERC Peer Review College member | 2016–22 |
| NEXUSS Centre for Doctoral Training (co-Director) | 2017–18 |
| Women in Ocean and Earth Sciences at Southampton | 2014–16 |
| UoS Employability representative | 2012–16 |
| UW Student-faculty representative | 2008 |
| Organisation of Sessions/Conferences/Seminars: | |
| AMOC Workshop: Observation needs in a changing climate | 2023 |
| NZOC Workshop: 21st century marine scientist | 2021 |
| EGU General Assembly, Vienna: Ocean Circulation | 2019 |
| IUGG general assembly, Prague: MOC & Deep Currents | 2015 |
| AGU Fall Meeting, San Francisco: AMOC, climate variability and change | 2014 |
| Ocean Sciences, Honolulu: Frontiers in Oceanographic Data & Methods | 2014 |
| US AMOC/UK RAPID international meeting, Baltimore | 2013 |
| IAPSO meeting, Gothenburg: Thermohaline circulation and deep currents | 2013 |
| EGU General Assembly, Vienna: Ocean Circulation | 2013 |
| EGU General Assembly, Vienna: Ocean Circulation | 2012 |
| Ocean Sciences, Salt Lake City: Vertical Flow in the Ocean | 2012 |
| NOC: Physical Oceanography and Climate Seminar | 2010–11 |
| UW: Student Physical Oceanography educational Retreat, Friday Harbor | 2003, 2009 |
| UW: Graduate Climate Change Conference, Pack Forest | 2008 |

Outreach activities: Royal Institution Christmas Lectures, guest on episode 2 (2020), RRS Sir David Attenborough launch, talk & marine robotics stand (3 days, 2019), Soapbox Science & Art presenter, Bournemouth Arts Festival (2018), Talked to 300 school kids from Springhill Primary (2018), Kid's version of "heat wave" paper (2016), Discover Oceanography on "Oceanography from Space" to U3A (2015), STEMnet ambassador, Hampshire (2014), Ocean and Earth Day demos for Science & Engineering week, NOC (2012, 2013, 2019)

Journals refereed: Nature, Nature Geoscience, Nature Communications, Journal of Physical Oceanography, Journal of Atmospheric and Oceanic Technology, Reviews of Geophysics, Geophysical Research Letters, Journal of Geophysical Research - Oceans, Deep Sea Research, Ocean Science, Progress in Oceanography, Remote Sensing of the Environment, Journal of Climate, Marine Technology Society Journal, Annals of Glaciology, Frontiers in Marine Science

Proposals refereed: UK Natural Environment Research Council (NERC), US National Science Foundation (NSF), Royal Society International Fellowships, Norwegian Research Council, National Defense Science & Engineering Graduate (NDSEG) research fellowship, NASA Earth & Space Science Fellowships (NESSF), German research vessels (GPF), EuroFleets vessels

TRAINING AND CERTIFICATION

Autonomous Vehicles: Sailbuoy pilot training, Offshore Sensing AS, 5 days (6/2019), Seaglider pilot training, Kongsberg, 5 days (9/2017)

Safety & First aid: Deutsches Rotes Kreuz First Aid, 8 hours (11/2022), IOSH Managing Safety in a Research Environment, 15 hrs (10/2018), First Aid at Work, 15 hrs (11/2019), ITC Certificate in Outdoor First Aid, SCQF Level 5, 16 hrs (2/2015)

Seagoing: Certificate in Proficiency in Designated Security Duties, 10 hrs (9/2020); STCW Personal Survival techniques certificate (updated 1/2017, 2010); ENG1 seafarer medical fitness certificate (1/2020, 3/2014); British Antarctic Survey medical (9/2014)

Diving: PADI Open Water (1996), Advanced diver No. 0009962148 (2000)

Teaching: "PhD Supervision, MIN Faculty, UHH", 9 hours (2024); "Flipped Learning", 4 hrs (2015); "Revitalising your Virtual Learning Environment", 2 hrs (2015); Postgraduate certificate in academic practice (PCAP) training, 24 hrs (2013); "Engaging Students in Research & Inquiry", 3 hrs (2013); "Effective Teaching and Learning in the Large Classroom Setting" by NAGT, 4 hrs (2012); "Supervising a PhD student," 3 hrs (2010)

Other: "Excelling at Academic Interviews," 7 hrs (2015); "Springboard: Women's development programme," 32 hrs (2015); "ThinkWrite: Quality Papers", 7 hrs (2013); "Building & Leading High Performing Teams", 7 hrs (2013); "Managing your Academic Career: for Women", 7 hrs (2013); "Climate Communications: Tools & Tips" at AGU fall mtg, 7 hrs (2012)

PUBLICATIONS

- [62] Chafik, Holliday, Bacon, Baker, Desbruyères, **Frajka-Williams**, et al. "Observed mechanisms activating the recent subpolar North Atlantic Warming since 2016". *Philos. T. R. Soc. A* (2023). doi: 10.1098/rsta.2022.0183.
- [61] Clément, **Frajka-Williams**, von Oppeln-Bronikowski, Goszczko, and de Young. "Cessation of Labrador Sea convection triggered by distinct fresh and warm (sub)mesoscale flows". *J. Phys. Oceanogr.* (2023). doi: 10.1175/jpo-d-22-0178.1.
- [60] **Frajka-Williams**, Foukal, and Danabasoglu. "Should AMOC observations continue: how and why?" *Philos. T. R. Soc. A* (2023). doi: 10.1098/rsta.2022.0195.
- [59] McCarthy, Burmeister, Cunningham, Düsterhus, **Frajka-Williams**, Graham, et al. "Climate change impacts on ocean circulation relevant to the UK and Ireland". *MCCIP Sci. Rev.* (2023). doi: 10.14465/2023.reu05.cir.
- [58] Berx, Volkov, Baehr, Baringer, Brandt, Burmeister, et al. "Climate-relevant ocean transport measurements in the Atlantic and Arctic Oceans". *Oceanogr.* (2022). doi: 10.5670/oceanog. 2021.supplement.02-04.
- [57] Evans*, **Frajka-Williams**, and Naveira Garabato. "Dissipation of mesoscale eddies at a western boundary via a direct cascade". *Sci. Rep.* (2022). doi: 10.1038/s41598-022-05002-7.
- [56] Jackson, Biastoch, Buckley, Desbruyeres, **Frajka-Williams**, Moat, et al. "The evolution of the North Atlantic meridional overturning circulation since 1980". *Nat. Rev. Earth Environ.* (2022). doi: 10.1038/s43017-022-00263-2.
- [55] Naveira Garabato, Yu, Callies, Barkan, Polzin, **Frajka-Williams**, et al. "Kinetic energy transfers between mesoscale and submesoscale motions in the open ocean's upper layers". *J. Phys. Oceanogr.* (2022). doi: 10.1175/JPD-D-21-0099.1.
- [54] Danabasoglu, Castruccio, Small, Tomas, Frajka-Williams, and Lankhorst. "Revisiting AMOC Transport Estimates from Observations and Models". Geophys. Res. Lett. (2021). doi: 10.1029/ 2021GL093045.
- [53] Sanchez-Franks*, **Frajka-Williams**, Moat, and Smeed. "A dynamically based method for estimating the Atlantic overturning circulation at 26°N from satellite altimetry". *Ocean Sci.* (2021). doi: 10.5194/os-17-1321-2021.
- [52] Spingys, Naveira Garabato, Legg, Polzin, Abrahamsen, Buckingham, et al. "Mixing and Transformation in a Deep Western Boundary Current: A Case Study". *J. Phys. Oceanogr.* (2021). doi: 10.1175/JP0-D-20-0132.1.
- [51] Evans*, **Frajka-Williams**, Naveira Garabato, Polzin, and Forryan. "Mesoscale eddy dissipation by a "zoo" of submesoscale processes at a western boundary". *J. Geophys. Res. Oceans* (2020). doi: 10.1029/2020JC016246.

- [50] Fernandez-Castro, Evans, **Frajka-Williams**, Vic, and Naveira Garabato. "Breaking of internal waves and turbulent dissipation in an anticyclonic mode water eddy". *J. Phys. Oceanogr.* (2020). doi: 10.1175/JP0-D-19-0168.1.
- [49] Lobelle*, Beaulieu, Livina, Sevellec, and **Frajka-Williams**. "Detectability of an AMOC decline in current and projected climate changes". *Geophys. Res. Lett.* (2020). doi: 10.1029/2020GL089974.
- [48] Moat, Smeed, **Frajka-Williams**, Desbruyeres, Beaulieu, Johns, et al. "Pending recovery in the strength of the MOC at 26°N". *Ocean Sci.* (2020). doi: 10.5194/os-16-863-2020.
- [47] Volkov, Meinen, Schmid, Moat, Lankhorst, Dong, et al. "Atlantic meridional overturning circulation and associated heat transport". State of the Climate in 2019. Ed. by Blunden and Arndt. 2020.
- [46] **Frajka-Williams**, Ansorge, Baehr, Bryden, Chidichimo, Cunningham, et al. "OceanObs19: Atlantic meridional overturning circulation: Observed transports and variability". *Front. Mar. Sci.* (2019). doi: 10.3389/fmars.2019.00260.
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- [43] Meinen, Johns, Moat, Smith, Johns, Rayner, et al. "Structure and variability of the Antilles Current at 26.5°N". J. Geophys. Res. Oceans (2019). doi: 10.1029/2018JC014836.
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- [41] Naveira Garabato, **Frajka-Williams**, Spingys, Legg, Polzin, Forryan, et al. "Rapid mixing and exchange of deep-ocean waters in an abyssal boundary current". *Proc. Natl. Acad. Sci. USA* (2019). doi: 10.1073/pnas.1904087116.
- [40] Testor, de Young, Rudnick, Glenn, Hayes, Lee, et al. "OceanObs19: OceanGliders: a component of the integrated GOOS". Front. Mar. Sci. (2019). doi: 10.3389/fmars.2019.00422.
- [39] Worthington*, **Frajka-Williams**, and McCarthy. "Estimating the deep overturning transport variability at 26°N using bottom pressure recorders". *J. Geophys. Res. Oceans* (2019). doi: 10.1029/2018JC014221.
- [38] Calafat, Wahl, Lindsten, Williams, and **Frajka-Williams**. "Coherent modulation of the sealevel annual cycle in the United States by Atlantic Rossby waves". *Nat. Comm.* (2018). doi: 10.1038/s41467-018-04898-y.
- [37] Dotto, Naveira Garabato, Bacon, Tsamados, Holland, Hooley, et al. "Variability of the Ross Gyre, Southern Ocean: drivers and responses revealed by satellite altimetry". *Geophys. Res. Lett.* (2018). doi: 10.1029/2018GL078607.
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BOOK CHAPTERS & NON-REFEREED PUBLICATIONS

- [18] **Frajka-Williams**, Brearley, Nash, and Whalen. "New technological frontiers in ocean mixing". Ocean Mixing: Drivers, Mechanisms and Impacts. Elsevier, 2022. doi: 10.1016/B978-0-12-821512-8.00021-9.
- [17] deYoung, **Frajka-Williams**, von Oppeln-Bronikowski, and Woodward. "Technicalities: Exploring the Labrador Sea with autonomous vehicles". *J. Ocean Tech.* (2020). url: http://nora.nerc.ac.uk/id/eprint/528776.
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- [15] Sutherland, Straneo, Moon, Le Bras, **Frajka-Williams**, Bamber, et al. *Freshwater fluxes from the Greenland Ice Sheet*. 2019. doi: 10.18739/A24M9198B.
- [14] **Frajka-Williams**. "Topographic eddies". Reference Module in Earth Systems and Environmental Sciences. Elsevier, 2018. doi: 10.1016/B978-0-12-409548-9.10852-8.

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- [7] **Frajka-Williams**. "Women in Oceanography: A decade later". *Oceanogr.* (2014). url: https://tos.org/oceanography/issue/volume-27-issue-04-supplement.
- [6] **Frajka-Williams**. "RAPID: Observations of the meridional overturning circulation at 26°N". *UK Challenger Society: Ocean Challenge* (2011). url: https://www.challenger-society.org.uk/oceanchallenge/V18_1_web.pdf.
- [5] Johns and **Frajka-Williams**. *RV Knorr Cruise KN200-4*, 13 Apr–3 May 2011. RAPID Mooring Cruise. Tech. rep. National Oceanography Centre, Southampton, 2011. url: https://nora.nerc.ac.uk/id/eprint/308915/1/NOC_CR_07.pdf.
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- [3] Martini, **Frajka-Williams**, and Mouw. "Conference Report | The Pattullo Conference: Building community through mentoring". *Oceanogr.* (2009). doi: 10.5670/oceanog.2009.26.
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SELECTED SEMINARS & TALKS (as presenter)

2024: EUMETSAT Winter Talk, Darmstadt (seminar - online)

2023: AMOC workshop, Hamburg (talk)
Universität Bremen, DE (seminar)
GEOMAR, Kiel, DE (seminar)
Bottom pressure workshop, Rhode Island (talk - online)
ASOF meeting, Canary Islands (talk - online)

2022: AMOC meeting, Royal Society, London (invited talk)
AANChOR AAORIA Workshop, Washington D.C (talk)
UG2 Glider workshop, Seattle (poster)

2021: Leeds, UK (seminar)

NOC Science & Technology Advisory Committee, UK (talk)

FDSE summer school, Cambridge, UK (lecture)

Nordic Overflows workshop, virtual (talk)

CANAIMOC meeting, virtual (talk)

EGU General Assembly, virtual (pico)

2020: OceanSITES, virtual (invited panelist)

NOC Board, UK (talk)

IOCAG, Canary Islands (seminar)

Oxford University, UK (seminar)

UK MetOffice, UK (talk)

Imperial College London, UK (seminar)

2019: Marine Autonomy & Technology Showcase, Southampton, UK (talk)

GFDL, Princeton, New Jersey (seminar)

Newcastle University, Newcastle, UK (seminar)

RRS Sir David Attenborough launch, Birkenhead, UK (talk)

OceanObs19, Honolulu, Hawaii (poster)

AMOC Metrics, Honolulu, Hawaii (invited talk)

NERC Science Committee, Swindon, UK (talk)

NOC Association, London, UK (talk)

CLASS annual science meeting, Plymouth, UK (talk)

EGU General Assembly, Vienna, Austria (poster)

Royal Society West Indies meeting, Chicheley, UK (poster)

RAPID International Review, London, UK (talk)

2018: Marine Autonomy & Technology Showcase, Southampton, UK (talk)

University College London, London, UK (seminar)

Challenger Society for Marine Science, Newcastle, UK (talk)

US AMOC/UK RAPID International Meeting, Miami, FL (invited talk)

University of East Anglia, Norwich, UK (seminar)

Ocean Sciences meeting, Portland, OR (talk)

Cambridge University, Cambridge, UK (seminar)

2017: Marine Autonomy & Technology Showcase, Southampton, UK (talk)

RAPID/OSNAP/ACSIS meeting, Oxford, UK (poster)

Oceans and Climate public lecture, The Royal Society, London (keynote)

IAPSO meeting, Cape Town, South Africa (talk)

Liege Colloquium on Turbulence, Liege, Brussels (poster)

NOC Friday Seminar, Southampton, UK (seminar)

2016: EGO Glider meeting, Southampton, UK (poster)

NOAA/AOML, Miami, FL (seminar)

Woods Hole Oceanographic Institute, Woods Hole, MA (seminar)

NASA JPL, Pasadena, CA (seminar)

University of Washington, Seattle, WA (seminar)

2015: RAPID International Science Meeting, Bristol, UK (talk)

IUGG General Assembly, Prague, Czech Republic (talk & panel member)

CLIVAR Climate Process Team meeting, La Jolla, CA

University of Washington, Seattle, WA (seminar)

2014: AGU fall meeting, San Francisco, CA (talk)

Ocean Sciences, Honolulu, HI (talk)

National Oceanography Centre, Liverpool, UK (seminar)

Oxford University, Oxford, UK (seminar)

2013: IAPSO meeting, Gothenberg, Sweden (talk)

Challenger Society: Prospectus 2013, Royal Society, London (invited talk)

EGU General Assembly, Vienna, Austria (talk)

University of Washington, Seattle, WA (seminar)

University of East Anglia, Norwich, UK (seminar)

2012: AGU Fall Meeting, San Francisco, CA (poster)

Bangor University, Bangor, UK (seminar)

THOR meeting in Hamburg, Germany. (talk)

British Antarctic Survey, Cambridge, UK (seminar)

Time series conference in Brest, France (invited talk)

USAMOC meeting, Boulder, CO (poster)

EGU General Assembly, Vienna, Austria (talk)

AGU Ocean Sciences, Salt Lake City, UT (poster)

2011: WCRP meeting, Denver, CO (poster)

RAPID International Science Meeting, Bristol, UK (talk)

ZMAW/Klimacampus, Max-Planck-Institut fur Meteorologie, Hamburg (seminar)

IUGG General Assembly, Melbourne, Australia (talk)

IUGG General Assembly, Melbourne, Australia (poster)

2010: Challenger Society for Marine Science, Southampton, UK (poster)

AGU Ocean Sciences, Portland, OR (talk)

Imperial College London, London, UK (seminar)

University of Liverpool, Liverpool, UK (seminar)

POETS NOC, Southampton, UK (seminar)

NOC PO Seminar, Southampton, UK (seminar)

2009: ESSAS 2009 Annual Science meeting, Seattle, WA (invited talk)

PO and Climate, Southampton, UK (seminar)

University of Washington, Seattle, WA (seminar)

Woods Hole Oceanographic Institution, Woods Hole, MA (seminar)

Physical Oceanography Dissertation Sympsium. Honolulu, HI (talk)

2008: Ocean Sciences meeting, Orlando, FL (Outstanding Student Talk award)

MPOWIR Pattullo Conference, Charleston, SC (talk)

2006: Ocean Sciences meeting, Honolulu, HI (poster)

2005: EGU General Assembly, Vienna, Austria (poster)

2004: American Physical Society, Seattle, WA (talk)

SCOR IAPSO conference on Mixing, Victoria, Canada (poster)

AGU Ocean Sciences, Portland, OR (poster)

2003: Hawaiian Ocean Mixing Experiment workshop, Mt. Hood, OR (talk)

2002: EGU General Assembly, Nice, France (poster)