Sabrina Speich - Curriculum Vitae



Full Professor of Physical Oceanography and Climate Sciences
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KEY WORDS: Climate sciences; Physical oceanography; Ocean changes and impact on climate at regional and global scale; Air—sea exchanges and changes; Shaping of the ocean dynamics and climate change on marine ecosystems.

EDUCATION

2008 "Diplôme d'Habilitation à diriger des Recherches" (HDR, equivalent to the D. Sc. in the United

Kingdom, to the "Libera docenza" in Italy, to the German "Habilitation") in Physical Oceanography and Climate Sciences, Université de Bretagne Occidentale, Brest, France;

1992 Ph.D. in Physical Oceanography, Université Pierre et Marie Curie, Paris;

1989 Laurea in Physics, Università degli Studi, Trieste, Italy.

CAREER

Since 2017 Associated Professor, SciencesPo, Paris, France;

Since **2013** Full Professor (PR EX2), Department of Geosciences at the École Normale Supérieure (ENS) of Paris & LMD-IPSL UMR 8539, Paris, France;

2009–2013 Full Professor, Department of Physics at the "Université de Bretagne Occidentale", & LPO,

Brest, France;

1995-2009 Assistant Professor, Department of Physics at the "Université de Bretagne Occidentale",

Brest, France.

1994-1995 Research associate, LOCEAN, CNRS, Paris, France

1992-1994 Postdoctoral researcher, Department of Atmospheric Sciences, UCLA, CA, USA

RESEARCH INTERESTS

I am a physical oceanographer with three decades of experience in modelling and conceiving large international observing projects to better assess ocean and climate processes and monitor changes. The approach I favored during the last 15 years is to promote interdisciplinary studies to understand the ocean nonlinear dynamics and its impact on biogeochemistry, marine biome and ecosystems and the atmosphere. I am also working together with the international community (within projects and organizations) to improve the ocean observing strategy and capacity. Indeed, the ocean is key to the future of humanity challenged by a rapidly changing climate.

AWARDS AND HONORS (SELECT): _

2023 Elected Member of the European Academy of Science

2019 Awarded the Albert Defant Medal by the German Meteorological Society (DMG:

https://www.dmg-ev.de/aktivitaeten/auszeichnungen/albert-defant-medaille/)

Since 2002 Recipient of the National Research and PhD Supervision award

SCIENTIFIC TRAINING SERVICES

I have trained about 20 PhD and 20 postdoctoral researchers and more than 50 Master students. I have been invited in more than 50 PhD external (10 international) thesis jury as examiner.

Since 2023 Member of the Scientific Council, ENS

Since 2014 Member of the Doctoral School College, ED129 - Climate Sciences, IPSL, Paris

2014-2019 Dean of Studies of the Geosciences Department, ENS

2010-2013 Deputy Director of the Doctoral School on Marine Sciences, IUEM, UBO, Brest, France

2010-2013 Deputy Director, Department of Physics at the "Université de Bretagne Occidentale", Brest, France

PUBLICATIONS

I have published more than 120 publications on international journals, have been invited to over 40 conferences as a keynote speaker, and I have led several national and international research projects. Among them there are multidisciplinary contributions to Nature and Science. My publication record showcases my scientific interdisciplinary approach. My current h-index is: 43 (Web of Science), 46 (Scopus), 52 (Semantic Scholar), 54 (Google Scholar).

http://orcid.org/0000-0002-5452-8287

https://www.scopus.com/authid/detail.uri?authorld=6602115663

https://loop.frontiersin.org/people/457867/network

https://www.webofscience.com/wos/author/record/747772

https://scholar.google.fr/citations?user=G0VWQsEAAAAJ&hl=fr&authuser=1

https://www.semanticscholar.org/author/S.-Speich/2154189

KEYNOTES AND CONFERENCES

I gave many invited talks and seminars at international conferences, workshops and institutes. These include keynotes at different Ocean Sciences, AGU and EGU conferences and lectures in various Academic Institutions such as MIT, WHOI, Scripps, UCLA, URI, GEOMAR, the French Ministries of Research and Ecological Transition, the Collège de France and ENS. I have been the chair/co-chair of scientific committees for various conferences, workshops and specific highlevel events. Among others: OceanObs19 (Hawaii, 2019: https://www.oceanobs19.net; 1500 participants), the 2nd Climate Observations Conference (Germany, https://gcos.wmo.int/en/news/important-2nd-climate-observation-conference-17-19october-2022-darmstadt-germany-submit-your; 300 participants), the "Ocean Mesoscale Eddy Interactions with the Atmosphere" CLIVAR workshop (Oregon, 2018; Robinson et al. 2018; 50 participants upon invitation); the Trimester on "Mathematics for Climate and the Environment (Paris, 2019: https://www.ihp.fr/en/news-research-activities/t3-2019-mathematics-climate- and-environment).

RECENT OCEANOGRAPHIC CRUISES

Yearly	Short (1	week) trail	ning cruise t	or the ENS	Master student	s on board	d of the Frenc	h RV Tethys
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2020 EUREC4A-OA cruise, January - February 2020, Tropical North Atlantic, RV Atalante Chief Scientist (https://doi.org/10.17600/18000670).

2017 SAMOC/AtlantOS MSM60 cruise, January 2017 South Atlantic, RV Merian Co-Chief Scientist.

2016 AtlantOS M124 cruise, February–March 2016 South Atlantic, RV Meteor. Co-Chief Scientist.

2012 Oceanographic cruise TARAOCEANS RV Tara. Co-PI Physical Oceanography and Climate.

RECENT RESPONSABILITIES IN INTERNATIONAL COMMITTEES

2023 GCOS co-chair;

2021–2024 Co-chair, Ocean Observing Co-Design (ObsCoDe): A Programme under the UN Decade of Ocean Science for Sustainable Development (https://www.oceandecade.org);

2021-2024 WCRP CLIVAR-AMOC Science Team member;

2021-2023 WCRP ESMO SSG Member;

Since 2020 Co-chair, Ocean Observations Physics and Climate panel (GCOS, GOOS, WCRP);

2018-2021 Co-chair of the Tropical Atlantic Observing System review committee;

2015-2021 Co-chair, WCRP Atlantic CLIVAR Panel.

RECENT RESEARCH PROJECT RESPONSABILITIES AT INTERNATIONAL LEVEL

Since 2024 PI ERC Synergy WHIRLS (https://www.ipsl.fr/en/article/whirls-small-ocean-eddies-with-a-major-impact-on-climate-and-marine-life/)

Since 2024 Co-coordinator EU H2030 ObsSea4Clim project (https://obssea4clim.eu)

Since 2022 WP co-leader of the Ocean: Ice Europe 2030 project.

Since 2020 Coordinator of the EUREC4A-OA JPI Ocean & Climate project international project (http://www.jpi-oceans.eu/news-events/news/eurec4a-project-launches-its-first-international-campaign-barbados-exploring-ocean).