

PD Dr. Martin Georg Schultz

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Education

1991	University degree (Diplom) in Physics, University of Heidelberg
1995	Doctorate (Dr. rer. nat.), University of Wuppertal/ Research Centre Jülich
2010	Habilitation (Meteorology) at University of Hamburg

Professional experience

1996	PostDoc, Research Centre Jülich, ICG-2
1997-1999	PostDoc, Harvard University, Cambridge, MA, USA
1999-2006	Scientist, Max Planck Institute for Meteorology, Hamburg
2006-2017	Group leader global atmospheric modelling, Research Centre Jülich, IEK-8
since 07/2017	Jülich Supercomputing Centre
since 2012	Lectureship in Meteorology at university of Bonn

Honors, awards, and community services

since 09/2020	Topical editor of <i>Earth System Science Data</i> journal
since 2020	Elected member of the Hauptkommission at Forschungszentrum Jülich
since 2020	Member of WMO task team <i>Exascale & AI</i>
since 2019	Co-chair of <i>Tropospheric Ozone Assessment Report</i> , phase II
since 2018	Member of Geoverbund ABC/J steering group
2018	Awardee of ERC Advanced Grant <i>IntelliAQ</i>
2018	Initiator and convenor of workshop on <i>Extreme Data: Demands, technologies, and services</i> , Jülich
2017	Highly cited researcher award
since 2014	<i>Tropospheric Ozone Assessment Report</i> steering group member
2009-2018	Scientific Advisory Group of the <i>Global Atmosphere Watch</i> program on reactive gases (chair since 2013)

Since 2016	Member of WMO <i>Expert Team on World Data Centers</i>
2006-2015	Coordinator of the <i>Global reactive gases</i> project within the Copernicus atmospheric service precursors GEMS, MACC, MACC-II, and MACC-III
2012-2015	Member of the Science Advisory Board of the <i>Global Emissions Inventory Activity</i>
2011, 2012	Initiator and convenor of two international workshops of the <i>GEO Community of Practice</i> on air quality metadata
2009, 2011	Initiator and co-convenor of two international workshops on <i>tropospheric ozone changes</i> (Boulder, Colorado, and Toulouse, France)
2005-2009	Scientific advisory board <i>Atmospheric Sciences</i> of the European Geophysical Society
2004-2007	Founder and coordinator of <i>Hydrogen energy: Chances And Risks for the Environment</i>
since 1997	Reviewer for several international journals, grant and award proposals (e.g. ESA, Finnish Academy of Science, BELSPO, NERC, ETH-Z, SRON), and research institutes (BELSPO)

Research objectives

- Apply deep machine learning and modern statistical methods to develop novel analyses of Earth system data with a focus on air quality data
- Design and build performant interoperable workflows and large-scale data architectures to bridge the gap between Earth system observations and modelling
- Analysis of global air pollution and its trends over time

Publications: <http://orcid.org/0000-0003-3455-774X> (112 articles, h-index 50)