

1 Curriculum vitae - Paul Zieger

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1.1 Education and degrees

2021 Docent in Environmental Science (docent i miljövetenskap), Stockholm University, Sweden

2011 Doctor of Sciences (Dr. sc. ETH Zürich)

Thesis: *Effects of relative humidity on aerosol light scattering* at ETH Zürich, Switzerland

Supervisors: Prof. Thomas Peter, Dr. Ernest Weingartner, and Prof. Urs Baltensperger

2007–2011 PhD student at ETH Zürich and at the Paul Scherrer Institute, Switzerland

2007 Diploma in Physics (Grade: 1.0, passed with distinction), Freie Universität Berlin, Germany

Thesis: *Development of an airborne spectrometer system for the remote sensing of aerosol optical properties*, Supervisors: Prof. Ludger Wöste and Prof. Jürgen Fischer

2002–2003 Universidad de Granada, Spain, Study of Physics

2000–2007 Freie Universität Berlin, Germany, Study of Physics

1.2 Employment history

Since Jan. 23 Deputy prefekt of the Department of Environmental Science

Since Feb. 21 Associate Professor (universitetslektor) in Experimental Atmospheric Science at Stockholm University (SU), Department of Environmental Science (ACES), Stockholm, Sweden

Feb. 17– Feb. 21 Assistant Professor (biträdande lektor) in Experimental Atmospheric Science at Stockholm University (SU), Department of Environmental Science (ACES), Stockholm, Sweden

Jan. 15–Jan. 17 Researcher at Stockholm University, Department of Environmental Science and Analytical Chemistry, Stockholm, Sweden

May 13–Jan. 15 Postdoctoral researcher at Stockholm University, Department of Applied Environmental Science, Stockholm, Sweden, financed by two fellowships of the Swiss National Science Foundation

May 11–Apr. 13 Postdoctoral researcher at the Paul Scherrer Institute (PSI), Switzerland, working on the aerosol_cci project of the European Space Agencies Climate Change Initiative (CCI)

May 07–Apr. 11 Ph.D. student at the Laboratory of Atmospheric Chemistry, PSI, Villigen, Switzerland

Aug. 04–Mar. 07 Student research assistant, Freie Universität Berlin, Institute for Space Sciences, Berlin, Germany

1.3 Grants

- 2023 “Feedbacks between a changing climate and vegetation: The role of volatile organic compounds and biogenic aerosols (CLIVE)”, project grant from KAW foundation, C. Mohr (PI), ..., P. Zieger (co-PI)
- 2022 “Unraveling the role of aerosols and clouds on Arctic climate”, Carl Trygger Foundation, P. Zieger (PI)
- 2021 “Climate Relevant interactions and feedbacks: the key role of Sea ice and Snow in the polar and global climate system (CRiceS)”, EC Horizon 2020 project, R. Makkonen (PI’s) & J. Thomas (PIs), ..., P. Zieger (role: WP1 co-lead and co-lead of aerosol-cloud theme (CT2))
- 2020 “Closing the gap between properties of fresh sea spray aerosol and aerosol observed in the marine boundary layer”, VR project grant, C. Mohr (PI), P. Zieger, M. Salter
- 2020 “Constraining the climate-scale impact of aerosols on cloud droplet number concentrations”, VR project grant, A. Ekman (PI), P. Zieger
- 2019 “Constrained aerosol forcing for improved climate projections”, EC Horizon 2020 project, I. Riipinen & A. Ekman (PIs), ..., P. Zieger, ...
- 2018 “Biogenic particles and their role in the formation of Arctic clouds”, Vetenskapsrådet (VR) starting grant, P. Zieger (PI)
- 2018 “Characterising properties of Climate Relevant Organic and Inorganic Sea-Spray-aerosols, Sources and Air-sea-exchange causing their Net-emission (CROISSANT)”, VR research grant, D. Nilsson (PI), M. Salter, B. Svenningsson, P. Zieger
- 2017 “NonTarget Atmospheric Observatories (NTAO) for Organic Contaminant Discovery”, FORMAS research grant, J. Martin (PI), P. Zieger, Ö. Gustafsson, I. Riipinen
- 2016 “Evaluation and improvement of the parameterization of aerosol hygroscopicity in global climate models using in-situ surface measurements”, research grant from U.S. Department of Energy, ARM/ASR program, E. Andrews (PI), P. Zieger, G. Titos
- 2013 Fellowships for Prospective Researchers & Advanced PostDoc. Mobility fellowship from the Swiss National Science foundation, P. Zieger (PI)

1.4 Appointments

- 2021-today Associate member of SCOR working group Clce2Clouds
- 2021-today Swedish national representative to SOLAS (Surface Ocean - Lower Atmosphere Study)
- 2019-today Research Infrastructure Coordination Committee (RICC) member of the Svalbard Integrated Observing System (SIOS)
- 2018-today Scientific Advisory Committee member of IGAC project *the Cryosphere and Atmospheric Chemistry* (CATCH)
- 2018-2022 Elected board member of the Association for Aerosol Research (GAeF)
- 2006-today Organisation and participation of several international field campaigns (e.g. AgriSAR 2006, CLACE 2008 & 2010, CINDI 2009, PEGASOS 2013, CAESAR 2014, NYA cloud campaign 2016-, EMB184 2018, Arctic Ocean 2018 (US-Swedish expedition to North Pole on I/B *Oden* as PI of project “Aerosol-cloud interactions in the High Arctic”), NASCENT 2019–2020, etc.), FAIRARI 2022, ARTofMELT 2023
- 2017-today Conference session organiser (e.g. AGU 2019, EAC 2019, CATCH open science conference 2022)
- 2016-2019 Member of the ACTRIS-2 TNA (Trans-National Access) selection panel
- 2017-2018 Mentor in the mentorship program of the Bolin Centre for Climate Research

1.5 Referee assignments

2022 PhD thesis of Alireza Moallemi (ETH Zurich, Switzerland)

2022 Opponent for PhD defence of Anna Franck (University of Helsinki, Finland)

2019 Member of the Atmospheric Sciences Review Panel at the Academy of Finland

2019 PhD thesis P. Herenz (University of Leipzig, Germany)

2013-today Grant reviewer for Swiss National Science Foundation (2x), University Excellence of Lille, France (1x), French Polar Institute, France (1x), Deutsche Forschungsgemeinschaft, Germany (1x), BMBF / Projektträger Jülich, Germany (1x), NSF (1x)

2013-today Referee for Atmospheric Chemistry and Physics, Atmospheric Environment, Geophysical Review Letters, Aerosol and Air Quality Research, Atmospheric Research, Springer books, ES&T. Since 2018, I additionally handle publications as co-editor of Atmospheric Chemistry and Physics.

1.6 Awards

2016 Fellow of the International Arctic Science Committee (IASC, 2016-2018)

2011 Atmospheric Chemistry and Physics ACP Award (Swiss Academy of Sciences)

2006 Poster prize at ERCA winter school, Grenoble, France

1.7 Publications and supervision

- 65 peer-reviewed publications (h-index=30, no. of citations = 2718 citations, Source: Google Scholar).
- Supervision of PhD students (as main supervisor: 1 finished/3 ongoing and as co-supervisor: 1 finished/5 ongoing) and master students (6 finished/3 ongoing)