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Curriculum vitae - Paul Zieger

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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

Employment history

Since Jan. 23 Deputy head of department of the Department of Environmental Science, Stockholm University

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

Awards

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

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

Appointments

2024-today Co-chair of CATCH IGAC project the Cryosphere and Atmospheric Chemistry (CATCH)

2021-today Associate member of SCOR working group CIce2Clouds

2021-today Swedish national representative to SOLAS (Surface Ocean - Lower Atmosphere Study)

2019-2023 Research Infrastructure Coordination Committee (RICC) member of the Svalbard Integrated Observing System (SIOS)

2018-today Scientific Advisory Committee member of CATCH

2018-2022 Elected board member of the Association for Aerosol Research (GAeF)

2006-today Organisation and participation of several international field campaigns

2023 Co-chief scientist of ARTofMELT 2023 expedition

Supervision

- Supervision of PhD students (as main supervisor: 2 finished/3 ongoing and as co-supervisor: 3 finished/3 ongoing), Postdocs (1 finished/1 ongoing) and master students (8 finished/1 ongoing)

Publications

Summary: 80 peer-reviewed publications (h-index=33, no. of citations = 3637 citations, Source: Google Scholar, 9 as first author, 4 in Nature Comm and 1 in Nature Geo). Articles where I acted as corresponding author (e.g., as supervisor) are marked by an asterisk (*).

Selected publications:

- Freitas, G. P. (...) and **Zieger, P.*** (2023). Regionally sourced bioaerosols drive high-temperature ice nucleating particles in the Arctic, Nature Comm, 14, 5997.
- **Zieger, P.*** (...) and Krejci, R. (2023). Black carbon scavenging by low-level Arctic clouds. Nature Comm., 14(1), p.5488.
- Pasquier, J.T. (...) and **Zieger, P.*** (2022). The Ny-Ålesund aerosol cloud experiment (NASCENT). Overview and first results, BAMS, 103(11), E2533-E2558.
- Schmale, J., **Zieger, P.**, Ekman, A. (2021). Aerosols in current and future Arctic climate. Nat. Clim. Change, 11, 95–105.
- Burgos, M.A. (...) and **Zieger, P.*** (2020). A global model-measurement evaluation of particle light scattering coefficients at elevated relative humidity, Atmos. Chem. Phys., 20, 10231–10258.
- Burgos, M.A. (...) and **Zieger, P.*** (2019). A global view on the effect of water uptake on aerosol particle light scattering. Scientific data, 6(1), 1-19.
- **Zieger, P.*** (...) and Salter, M. (2017). Revising the hygroscopicity of inorganic sea salt aerosol. Nature Comm., 8(1), 15883.
- **Zieger, P.*** (...) and Weingartner, E. (2104): Influence of water uptake on the aerosol particle light scattering coefficients of the Central European aerosol, Tellus B, 66, 22716, 1-14.
- **Zieger, P.**#** (...) and Baltensperger, U. (2013): Effects of relative humidity on aerosol light scattering: results from different European sites, Atmos. Chem. Phys., 13, 10609-10631.
- **Zieger, P.**#** (...) and Weingartner, E. (2010): Effects of relative humidity on aerosol light scattering in the Arctic, Atmos. Chem. Phys., 10, 3875-3890.