Curriculum Vitae

Personal Data

Name	Dr. Mira Pöhlker (née Krüger)
Date of birth	30 May 1988
Place of birth	Gießen, Germany
Citizenship	German
Family Status	Married, two childs
Address	Frauenlobstraße 34 D-55118 Mainz
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Scientific Education and Experience

since 01/2018 — **Team Leader**
Cloud Condensation Nuclei (CCN) Team in the Multiphase Chemistry Dept., Max Planck Institute for Chemistry, Mainz DE
'Investigation of the aerosol effect on climate and clouds'

03/2019 – 05/2019 — **Visiting Scientist**
Research Group 'Clouds and Global Climate' (Prof. Dr. J. Quaas), Institute for Meteorology of the University of Leipzig, Leipzig, DE
'Effects of measured CCN properties on global climate forcing'

05/2018 – 03/2019 — Maternity leave

02/2012 – 12/2017 — **PhD studies in Atmospheric Science**
Multiphase Chemistry Dept., Max Planck Institute for Chemistry, Mainz, DE, Supervisor; Prof. Dr. Ulrich Pöschl
'Investigation of atmospheric aerosol and cloud condensation nuclei under pristine and polluted conditions' (Dec 2017, final mark: *summa cum laude*)

10/2015 – 12/2016 — Maternity leave

10/2010 – 02/2012 — **Diploma Studies in Physics**
Institute of Physics, Johannes Gutenberg University Mainz, DE
Supervisor: Prof. Dr. Werner Heil; *'Manufactory of polarization foils for ultra-cold neutrons and characterisation of the polarisation'*; Graduation as "Diplom-Physikerin" (MSc equivalent, Feb 2012, final mark: *very good*)

Scholarships and Awards

since 04/2018 — **Minerva Fast Track Position** of the Max Planck Society

02/2013 – 12/2017 — **Scholarship of the Max Planck Graduate Center** (MPGC) with the Johannes Gutenberg University Mainz

10/2007 – 02/2012 — **Scholarship of the Studienstiftung des deutschen Volkes**

07/2007 — Award of **Peter Paul Cahensly Scool** *for an outstanding "Besondere Lernleistung" during A levels (Abitur) in the German course*

Scientific Experience

(1) Development, validation and application of a broad range of physical and chemical measurements techniques for aerosol research and elementary particle physics, *e.g.: aerosol particle counters and sizers, x-ray micro-spectroscopy (STXM-NEXAFS, ALS, Berkeley; BESSY-II, Berlin), ultra-cold neutron experiments (ILL, Grenoble; TRIGA, Mainz)*

(2) Software tools for scientific data analysis of large and complex data sets (e.g., IGOR Pro, Matlab, LabVIEW)

(3) Teaching experiences (University of Leipzig). Advising and teaching of students and co-workers (e.g., *advisor of PhD students, postdoctoral students and student assistants; student seminars*)

(4) Organization of scientific workshops and seminars (e.g., *IMPRS Days*)

(5) Coordination of and participation in international scientific projects (e.g., *Brazilian-German Amazon Tall Tower Observatory (ATTO), Ragged Point in Barbados, German High Altitude and Long Range Research Aircraft HALO*)

(6) Referee for Atmospheric Chemistry and Physics and other scientific journals

Bibliometry and Selected Publications

Google Scholar *(Status October 2019)*: 27 articles with 604 citations, *h*-index: 13
https://scholar.google.de/citations?user=SmLIxdkAAAAJ&hl=de

Holanda, B. A., Pöhlker, M. L., Saturno, J., Sörgel, M., Ditas, J., et al. : Influx of African biomass burning aerosol during the Amazonian dry season through layered transatlantic transport of black carbon-rich smoke, Atmos. **Chem. Phys. Discuss.**, 1–49, doi:10.5194/acp-2019-775, 2019.

Pöhlker, M. L., Ditas, F., Saturno, J., Klimach, T., Hrabě de Angelis et al. : Long-term observations of cloud condensation nuclei in the Amazon rain forest – Part 2: Variability and characteristic differences under near-pristine, biomass burning, and long-range transport conditions, **Atmospheric Chemistry and Physics**, 18, 10289-10331, https://doi.org/10.5194/acp-18-10289-2018, 2018.

Pöhlker, M. L., Pöhlker, C., Klimach, T., Hrabe de Angelis et al. : Long-term observations of cloud condensation nuclei in the Amazon rain forest – Part 1: Aerosol size distribution, hygroscopicity, and new model parameterizations for CCN prediction, **Atmospheric Chemistry and Physics**, 16, 15709-15740, 2016.

Rosenfeld, D., Zheng, Y. T., Hashimshoni, E., Pöhlker, M. L., Jefferson et al. : Satellite retrieval of cloud condensation nuclei concentrations by using clouds as CCN chambers, **Proceedings of the National Academy of Sciences of the United States of America**, 113, 5828-5834, 2016.

Krüger, M. L., Mertes, S., Klimach, T., Cheng, Y. F., Su, H. et al. : Assessment of cloud supersaturation by size-resolved aerosol particle and cloud condensation nuclei (CCN) measurements, **Atmospheric Measurment Technices**, 7, 2615-2629, 10.5194/amt-7-2615-2014, 2014.