

NAME, First Name: SCHMIDT, Anja

Affiliations: Institute of Atmospheric Physics (IPA), German Aerospace Center (DLR), Oberpfaffenhofen, Germany; and Meteorological Institute, Ludwig Maximilian University of Munich, Munich, Germany

Role in the project: Contribution of expertise in volcanic gas and aerosol modelling including use of observations of volcanic aerosol pre-cursors and aerosol properties to evaluate models. Tasks 1, 2 and 4.

Current position: Professor of Climate Modelling (LMU) and Head of Earth System Modelling (German Aerospace Center)

Former Position(s):

- Sep 2017 – Feb 2022, Interdisciplinary Lecturer in Climate Modelling (Department of Chemistry and Department of Geography, University of Cambridge, UK)
- Since 2014, Visiting Researcher (Atmospheric Chemistry Division, NCAR, Boulder, USA)
- 2013-2017, Academic Research Fellowship (tenure-track) (University of Leeds, UK)
- 2011-2013, Post-doctoral researcher (University of Leeds)

Education:

- Oct 2007 – Mar 2011, PhD (University of Leeds, UK)
- Oct 2002 – Sep 2007, Diploma in Geology and Palaeontology (University of Leipzig, Germany)

Services in National and/or International Committees (most recent nominations):

CMIP7 Task Team Forcing; SSiRC Co-Chair; natESM co-Chair, VolMIP Steering Committee

Honors (selected): 2022 Blavatnik Award UK Young Scientists; 2021 James B. Macelwane Medal (AGU); 2021 AGU Union Fellow (AGU); 2019 UCAR Outstanding Publication Award (UCAR); 2018 Arne Richter Award for Outstanding Early Career Scientists (EGU); 2016 IAVCEI George Walker Award

Selected Publications:

Schmidt, A., and B. A. Black (2022), Reckoning with the Rocky Relationship Between Eruption Size and Climate Response: Toward a Volcano-Climate Index, *Annual Review of Earth and Planetary Sciences*, 50(1), 627-661.

Aubry, T. J., J. Staunton-Sykes, L. R. Marshall, J. Haywood, N. L. Abraham, and A. Schmidt (2021b), Climate change modulates the stratospheric volcanic sulfate aerosol lifecycle and radiative forcing from tropical eruptions, *Nature Communications*, 12(1), 4708.

Schmidt, A., et al. (2018), Volcanic Radiative Forcing From 1979 to 2015, *Journal of Geophysical Research: Atmospheres*, 123(22), 12,491-412,508.

Mills, M. J., A. Schmidt, et al. (2016), Global volcanic aerosol properties derived from emissions, 1990–2014, using CESM1(WACCM), *Journal of Geophysical Research: Atmospheres*, 121(5), 2015JD024290.

Solomon, S., D. J. Ivy, D. Kinnison, M. J. Mills, R. R. Neely, and A. Schmidt (2016), Emergence of healing in the Antarctic ozone layer, *Science*, 353, 269-274.