Sabine Egerer

Curriculum Vitae

Personal Information

Born	Januar 30th, 1990 in Forst
Citizenship	German

Education

08/2014 – 12/2017 **PhD Thesis**, Land in the Earth System, Max Planck Institute for Meteorology, Hamburg
Title: Linking marine sediment records to Saharan landscape evolution during the Holocene- a theoretical study

01/2013 – 10/2013 **Diploma Thesis**, Institute of Scientific Computing, TU Dresden
Title: Dynamic of cells under shear flow- Numerical studies for global and local surface area conservation

08/2011 – 12/2011 **Studies Abroad**, Lund University, Sweden

10/2008 – 10/2013 **Diploma Studies Technomathematics**,
Specializations:
- *Scientific Computing*
- *Fluid Dynamics*

06/2008 **High School Diploma**, *Julius-Mosen-Gymnasium*, Oelsnitz
Grade: 1,0

Work Experience

07/2018 – present **Researcher and project coordinator**, Climate Service Center Germany (GERICS), Hamburg
Project IMLAND on adaptation to climate change in the agricultural sector

12/2017 – 06/2018 **Scientific Member**, *Land in the Earth System*, Max Planck Institute for Meteorology, Hamburg
Publication based on results of PhD thesis, supervision of Master student

10/2017 – 01/2018 **Scientific Member**, *Department of Geoscience*, Universitaet Hamburg
Tutor for Climatephysics

08/2012 – 10/2012 **Internship**, *Institute of Aerospace Engineering*, Technion- Israel Institute of Technology Haifa, Israel
Calculations of the distribution of gases

04/2012 – 07/2012 **Student Job**, *Institute of Fluid Dynamics*, TU Dresden
Modelling of multiple-phase flows

01/2012 – 03/2012 **Internship**, *Modelon AB*, Lund, Sweden
Creation of an example library for the Software packages Modelica and Dymola

List of Publications

Egerer, S., Claussen, M., and Reick, C.: Rapid increase in simulated North Atlantic dust deposition due to fast change of northwest African landscape during the Holocene, Clim. Past, 14, 1051-1066, https://doi.org/10.5194/cp-14-1051-2018 (2018)

Egerer, S.: Linking marine sediment records to Saharan landscape evolution during the Holocene- a theoretical study, PhD thesis, Universitaet Hamburg (2018)

Egerer, S., Claussen, M., Reick, C., and Stanelle, T.: Could gradual changes in Holocene Saharan landscape have caused the observed abrupt shift in North Atlantic dust deposition?, Earth Plan. Sci. Let.473, 104-112, 2017

Egerer, S., Claussen, M., Reick, C., and Stanelle, T.: The link between marine sediment records and changes in Holocene Saharan landscape: simulating the dust cycle, Climate of the Past 12, 1009-1027, 2016 (highlighted by the EGU)

Aland S., **Egerer, S.**, Lowengrub J., Voigt A.: Diffuse interface models of locally inextensible vesicles in a viscous fluid, Journal of computational physics, 277:32-47, 2014, doi:10.1016/j.jcp.2014.08.016.

Prizes and awards

1st prize in the Art Contest at the N^2 Science Communication Conference, Berlin, Germany, Nov 2017

Finalist in the competition 'Verständliche Wissenschaften' on science communication, Geesthacht, Germany, Feb 2019

Languages

German	Native Speaker
English	Fluent
Swedish	Advanced
Spanish	Advanced
French	Conversant

Computer Skills

Simulation	MPI-ESM1, ParaView, Vensim
Programming	Python, MATLAB, FORTRAN, Java
EDP	Unix/Linux, MS Office, LaTeX

Personal Interests

Sports	Volleyball (Member of GW Eimsbuettel), Snowboarding, Athletics
Culture	Travelling, Languages, Concerts
Politics	Member of Buendnis 90/Die Gruenen, Science Communication (engaging in regional Scientists for Future group)

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