

## Education

- 2012** Diplom-Ingenieur (equiv. M.Sc.), Environmental Engineering, University of Stuttgart, Germany  
Thesis: *Optimizing the Modeling Performance for Safety Assessments of Nuclear Waste Repositories*
- 2005** Abitur (university-entrance diploma)

## Work Experience

- SINCE 02/2016** Doctoral Researcher, Institute of Geophysics, ETH Zürich, Switzerland
- 10/2017** Research visit at Idaho National Laboratory, Idaho Falls, ID, USA
- 10/2012-12/2015** Project Engineer, AF-Consult Switzerland AG, Baden, Switzerland
- 07/2012-09/2012** Project Assistant, AF-Consult Switzerland AG, Baden, Switzerland
- 06/2011-05/2012** Trainee, AF-Consult Switzerland AG, Baden, Switzerland
- 02/2008-04/2011** Research and Teaching Assistant, Institute for Modeling Hydraulic and Environmental Systems, University of Stuttgart, Germany
- 07/2006-12/2010** Construction site management assistant at EAN Energy Consulting

## Awards

- 10/2012** Karsten Pruess Student Paper Award with travel scholarship to visit the TOUGH Symposium, Berkley, CA, USA, 2012

## Refereed publications

- **Schädle P**, Zulian P, Vogler D, Bhopalam RS, Nestola MG, Ebigbo A, Krause R, Saar MO. "3D non-conforming mesh model for flow in fractured porous media using Lagrange multipliers". Computers & Geosciences. 2019.
- Garapati N, Adams BM, Bielicki JM, **Schädle P**, Randolph JB, Kuehn TH, Saar MO. "A Hybrid Geothermal Energy Conversion Technology - A Potential Solution for Production of Electricity from Shallow Geothermal Resources". Energy Procedia. 2017.
- **Schädle P**, Kaempfer T, Pépin G, Wendling J, Brommundt J. "Combining high-resolution two-phase with simplified single-phase simulations in order to optimize the performance of PA/SA simulations for a deep geological repository for radioactive waste". Geological Society, London. 2016.
- **Schädle P**, Hubschwerlen N, Class H. "Optimizing the Modeling Performance for Safety Assessments of Nuclear Waste Repositories by Approximating Two- Phase Flow and Transport by Single-Phase Transport Simulations". Nuclear Technology. 2014.

## Conference Proceedings

- Lima MG, **Schädle P**, Vogler D, Saar MO, Kong X-Z. "Impact of Effective Normal Stress on Capillary Pressure in a Single Natural Fracture". Paper presented at European Geothermal Congress 2019.
- **Schädle P**, Hubschwerlen N, Class H. "Optimizing the Modeling Performance for Safety Assessments of Nuclear Waste Repositories by Approximating Two- Phase Flow and Transport by Single-Phase Transport Simulations". Proceedings of the TOUGH Symposium 2012.

## Teaching & Thesis mentoring

- Teaching assistant, Geothermics (field course), Spring 2017-2018, ETH Zürich
- Teaching assistant, Intergrative Erdsysteme III, Spring 2019, ETH Zürich
- Teaching assistant, Field Course Hydrogeology, 2008-2010, University Stuttgart
- Master thesis supervision, ETH Zürich

## Workshops

- *Organization and coordination* of MOOSE workshop 03/2018, ETH Zürich, Switzerland
- MOOSE workshop 06/2017, Idaho National Laboratory, Idaho Falls, ID, USA
- TOUGH Training 10/2016, Berkeley National Laboratory, Berkeley, CA, USA
- Energy Storage in Sedimentary Basins Workshop 08/2016, Columbus, OH, USA

## Presentations & Conferences

- InterPore 11th Annual Meeting 2019, Valencia, Spain.  
Talk: *A Lagrange multiplier method for single-phase flow in 3D discrete fractured porous media.*
- AGU Fall Meeting 2018, Washington D.C., USA.  
Poster: *On the response of tracer tests to fracture aperture variability and its correlation with fracture surface area.*
- Computational Methods in Water Resources XXII 2018, Saint-Malo, France.  
Poster: *Investigating the influence of aperture variability on the fracture surface area in enhanced geothermal reservoirs.*
- InterPore 10th Annual Meeting and Jubilee 2018, New Orleans, LA, USA.  
Talk: *Investigating the influence of aperture variability on fracture surface area in enhanced geothermal reservoirs.*
- 13th Greenhouse Gas Control Technologies Conference 2016, Lausanne, Switzerland.  
Talk: *A hybrid geothermal energy conversion technology - a potential solution for shallow geothermal resources.*
- Clay conference 2015, Brussels, Belgium.  
Talk: *Combining high resolution two-phase with simplified single-phase simulations in order to significantly reduce computation time for PA/SA simulations for a deep geological repository for radioactive waste*
- TOUGH Symposium 2012, Berkeley, CA, USA.  
Talk: *Optimizing the modeling performance for safety assessments of nuclear waste repositories by approximating two-phase flow and transport by single-phase transport simulations.*