

Curriculum vitae

Personal information

Date of birth 13. November 1986
Place of birth Bernburg, GDR
Nationality German

Experience

- since 2019
January **Potsdam Institute for Climate Impact Research (PIK) – PostDoc –**
○ Research department II Climate Resilience, research group Hydroclimatic risks
○ Focus: hydrological and hydraulic modelling, model development, floods and droughts, extreme value analysis, climate change impacts
- 2017 – 2017
March June **FUNCEME, Fortaleza, Brazil – Scholarship –**
○ Research Institute for Meteorology and Water Resources (FUNCEME)
○ Teaching of model application, advancement of the local model system
- 2011 – 2014
February February **Potsdam Institute for Climate Impact Research (PIK) – Research Assistant –**
○ Research group: forest modelling
○ Climate data analysis, visualisation of model results, contribution to publications
- 2010 – 2010
March September **Helmholtz Centre Potsdam (GFZ) – Research Assistant –**
○ Section: Hydrology
○ Glacier mapping in the Tien Shan mountains using satellite data
- 2010 – 2010
March April **Potsdam Institute for Climate Impact Research (PIK) – Internship –**
○ Research group: global vegetation modelling
○ Simulations with the vegetation model LPJmL, visualisation of model results
- 2009
August **Smithsonian Tropical Research Institute, Panama – Study visit –**
○ Investigation of tropical soils
○ Drawing of soil samples, laboratory analysis, statistical investigation
- 2009 – 2009
February May **Helmholtz Centre Potsdam (GFZ) – Research Assistant –**
○ Research group: Dendrochronology
○ Laboratory work, Preparation of tree ring samples

Education

- 2014 – 2020
March September **University of Potsdam – Dr. rer. nat. (PhD) Hydrology –**
- Thesis: „Pursuing the understanding of uncertainties in hydrological modelling“
 - Supervisors: Prof. Axel Bronstert, Prof. Sebastian Reich, Dr. Till Francke
 - Focus: hydrological modelling, model development, uncertainty analysis
- 2010 – 2014
October February **University of Potsdam – Master of Science Geoecology –**
- Focus: eco-hydrological modelling, statistics, time series analysis, field work
- 2007 – 2010
October September **University of Potsdam – Bachelor of Science Geoecology –**
- Focus: modelling and data analysis, environmental risks, global change, field and laboratory work

Skills

- Soft skill courses
- Courses of the *Imperial College London* for PhD students
 - Project planning, teamwork, conflict management
 - Communication and presentation of scientific works
 - Leadership and carrier planning
- Teaching
- Wintersemester 2014/15 and 2015/16: exercise in water hydraulics for BSc. Geoecology students, University of Potsdam
- IT
- | | |
|--------------|---|
| OS: | Linux, Windows |
| Programming: | R, Shell, Fortran, C++ |
| GIS: | GRASS, QGIS, ArcGIS |
| Other: | Text processing (Latex, Word), statistics (R, Excel), databases (SQLite, MySQL, MS Access), climate data manipulation (NetCDF), visualisation (R, Inkscape) |
| Software: | https://github.com/tpilz |
- Language
- | | |
|-------------|------------|
| German: | Native |
| English: | Fluent |
| Portuguese: | Advanced |
| Spanish: | Elementary |

Research interests

- Hydrological modelling
- Model development
- Uncertainty and sensitivity analysis
- Data analysis and (extreme value) statistics
- Open Source Software