

Fabian E. Gruber

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Experience

Vocational

- 2013–2018 **Research Assistant**, *Institute of Geography, University of Innsbruck*, Innsbruck.
Research projects:
- Shallow erosion dynamics in mountain grasslands of South Tyrol: Monitoring, process analysis and mitigation measures (EroDyn)
 - Geodata management: acquisition and storage of available geospatial data
 - Accuracy assessment for geographical object-based modelling of land cover with Python and Open Source GIS
 - Regional-scale landslide susceptibility mapping
 - Terrain Classification of ALS Data to support Digital Soil Mapping
 - Landform delineation with statistical learning approaches and automated landform classifications
 - Field Soil Survey
 - Collaboration on the development of the Java App *SEPP (Soil Evaluation in Planning Procedures)*
- 2011–2013 **Research Assistant**, *Institute of Applied Geology, BOKU*, Vienna.
Research projects:
- Hazard assessment for an expected dam break flood in the Hunza Valley, Pakistan: A combination of GIS, Remote Sensing, and computer simulation techniques
 - Dam breach modeling with BREACH
 - Flood modeling with FLO-2D
 - Poverty Alleviation through Mitigation of Integrated High-Mountain Risk (PAMIR)
 - Mapping geomorphological hazards, glaciers, and vulnerable infrastructure with remotely sensed data
- 2009–2010 **Project Assistant**, *Institute of Applied Geology, BOKU*, Vienna.
Research project:
- Remote Geohazards Assessment in Tajikistan (TajHaz)
 - Mapping geomorphological hazards and glacial lakes with remotely sensed data
 - Field survey in Tajikistan

Miscellaneous

- 2016–2017 **Educational Leave (Bildungskarenz)**.
devoted to work on PhD thesis with the working title 'Digital terrain analysis to support field soil survey'
- 2016–2017 **Lecturer**, *Institute of Geography, University of Innsbruck*, Innsbruck.
Exercises in Statistics (Übungen zur Statistik): Introduction to statistics with R for Bachelor's students

2010–2011 **Student tutor**, *University of Natural Resources and Life Sciences (BOKU)*, Vienna.
Tutoring for students using ArcGIS

Master thesis

title *The 2010 Attabad Landslide Dam Lake: modeling and prediction of Lake Outburst Floods*
supervisors Jean F. Schneider and Martin Mergili

Education

2002–2011 Diploma Study of Environmental Engineering and Water Management at the University of Natural Resources and Life Sciences (BOKU), Vienna
1993–2001 Linz International School Auhof, Linz: Austrian Matura (school leaving certificate, university entry qualification) and International Baccalaureate (IB)
1991–1993 Elementary School Linz-Pichling
1989–1991 Lincoln Elementary School Pittsburgh, PA, USA

Languages

German Native Language
English Fluent
Spanish Conversant
French Conversant

Computer skills

Operating systems	Windows, Linux (Ubuntu)	Scripting	R, Python, Bash
Geographic information systems	GRASS, QGIS, SAGA, ARCGIS	Word processing	MS Word, Libreoffice, \LaTeX with Texmaker
Image processing	GIMP, Inkscape	Misc. software	RStudio, MS Office, FLO-2D, ENVI-Sarscape

Interests

Horticulture Participating in a communal gardening project
Traveling Extensive traveling in Central and South America, Central Asia, Southeast Asia and Madagascar