



Fabian Gruber

Research assistant



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Skills

R programming language

Python programming language

GRASS GIS

QGIS

Arc GIS

Scientific writing

LINUX (Ubuntu)

MS- & libreOffice

GIMP and Inkscape

L^AT_EX & BibT_EX

German

English

Spanish & French

Areas of expertise

Data analysis: Descriptive statistics und data visualisation with R

Geographic information science: ArcGIS & Open Source GIS (GRASS, SAGA, QGIS, GDAL/OGR)

Statistical models: Machine Learning and (logistic) regression with R

Physically-based models: BREACH, FLO-2D, RAMMS, DAN3D

Soil science: Soil function evaluation, Digital soil mapping, soil classification

Geology: Soil parent material mapping, Geohydrology

Remote Sensing: Natural hazard mapping, automated imagery classification

Experience

2013 – 2018	Research Assistant	Institute of Geography, University of Innsbruck
2016 – 2017	Lecturer	Statistics with R, University of Innsbruck
2011 – 2013	Research Assistant	Institute of Applied Geology, BOKU Vienna
2009 – 2010	Student tutor	Introduction to GIS, BOKU Vienna
2009 – 2010	Project assistant	Institute of Applied Geology, BOKU Vienna

Education

2013 –	PhD Geography	University of Innsbruck
2002 – 2011	Diploma Study of Environmental Engineering & Water Management	BOKU Vienna
2001 – 2002	Civilian Service	Arbeitsamarterbund, Linz
1993 – 2001	High school (International Baccalaureate)	Linz International School
1991 – 1993	Elementary School	Linz
1989 – 1991	Elementary School	Pittsburgh, PA, USA

References

Clemens Geitner	+43 507 54037 clemens.geitner@uibk.ac.at	Institute of Geography, Universität Innsbruck
Martin Mergili	+43 1 47654 87219 martin.mergili@boku.ac.at	Institute of Applied Geology, BOKU Vienna
Martin Rutzinger	+43 507 49480 martin.rutzinger@oeaw.ac.at	Institute of Interdisciplinary Mountain Research, Austrian Academy of Sciences

Selected publications

- Geitner, C., Baruck, J., Freppaz, M., Godone, D., Grashey-Jansen, S., Gruber, F. E., Heinrich, K., Papritz, A., Simon, A., Stanchi, S., Traidl, R., von Albertini, N., Vrscaj, B., 2017. Chapter 8 - Soil and Land Use in the Alps - Challenges and Examples of Soil-Survey and Soil-Data Use to Support Sustainable Development. In: Pereira, P., Brevik, E. C., Munoz-Rojas, M., Miller, B. A. (Eds.), Soil Mapping and Process Modeling for Sustainable Land Use Management. Elsevier, pp. 221 – 292.
- Gruber, F. E., Baruck, J., Geitner, C., 2017. Algorithms vs. surveyors: A comparison of automated landform delineations and surveyed topographic positions from soil mapping in an Alpine environment. Geoderma 308, 9 – 25.
- Gruber, F. E., Mergili, M., 2013. Regional-scale analysis of high-mountain multi-hazard and risk indicators in the Pamir (Tajikistan) with GRASS GIS. Natural Hazards and Earth System Sciences 13 (11), 2779–2796.
- Zieher, T., Perzl, F., Gruber, F., Rutzinger, M., Meißl, G., Geitner, C., 2016. Data requirements for the assessment of shallow landslide susceptibility using logistic regression. In: Landslides and Engineered Slopes. Experience, Theory and Practice. CRC Press, pp. 2139–2146.

Interests

Travelling: Central America, Central and Southeast Asia, Madagascar, Antarctica
Horticulture: Community gardening at Waldhüttl, Innsbruck