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
- LaTeX & BibTeX
- 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	Arbeitersamariterbund, 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