# Fabian Gruber

Research assistant
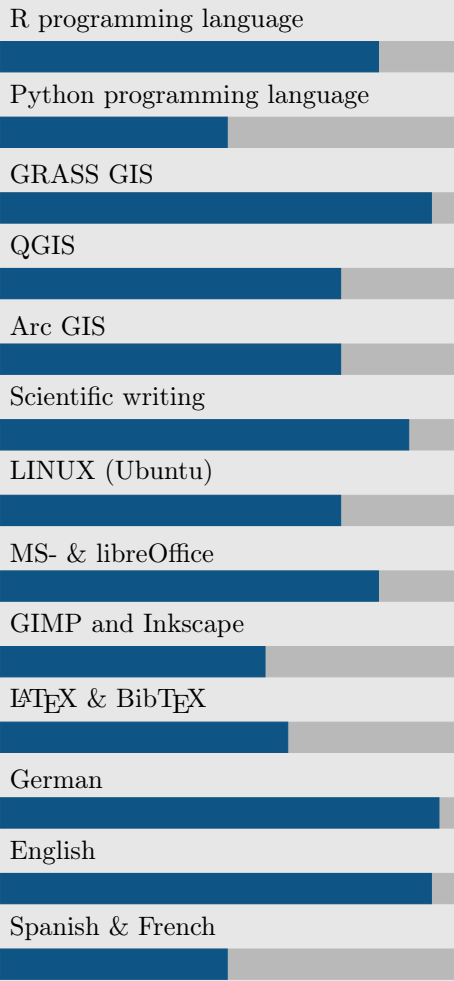
22 June 1982

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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

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

Remote Sensing: Natural hazard mapping, automated imagery classification, accuracy assessment, geodata management

Data analysis: Descriptive statistics und data visualisation with R

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

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

Geology: Soil parent material mapping, geohydrology

## 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

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|---|---|---|
| 2013 – | PhD student in 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

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|---|---|---|
| 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