

Fabian E. Gruber +43 650 2587521 Relation Fabian E. Gruber Fabian E. Grube

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2002–2011	Diploma Study of Environmental Engineering and Water Management at the Uni-
	versity 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

Master thesis

title The 2010 Attabad Landslide Dam Lake: modeling and prediction of Lake Outburst Floods

supervisors Jean F. Schneider and Martin Mergili

Experience

Vocational

2013-current Re

Research Assistant, *Institute of Geography, University of Innsbruck*, Innsbruck. Research project:

- o Terrain Classification of ALS Data to support Digital Soil Mapping
 - Landform delineation with statistical learning approaches and automated landform classifications
 - Field Soil Survey

2011–2013 Research Assistant, Institue 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)

2009–2010 **Project Assistant**, *Institue 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 **Lecturer**, *Institute of Geography, University of Innsbruck*, Innsbruck. Exercises in Statistics (Übungen zur Statistik): Introduction to statistics with R for Bachelor's

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

2016–2017 Educational Leave (Bildungskarenz)

Languages

German Native Language

English Fluent

Spanish Conversant

French Conversant

Computer skills

Operating Windows, Linux (Ubuntu) Languages R, Python systems and scripts

Geographic GRASS, SAGA, ARCGIS

Misc. GIMP, information software RAMMS, ENVI-Sarscape systems

Interests

Horticulture Participating in a communal gardening project

Traveling Extensive traveling in Central and South America, Central Asia, Southeast Asia and Madagascar

Publications

Peer-reviewed journal articles and book chapters

- [1] Gruber, F.E., Baruck, J., Geitner, C. (submitted): Algorithms vs. surveyors: a comparison of automated landform delineations and surveyed topographic positions from soil mapping in an Alpine environment. Geoderma.
- [2] 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. (in press). 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. (Eds.), Soil mapping and process modelling for sustainable land use management. Elsevier, Amsterdam.
- [3] Baruck, J., Nestroy, O., Sartori, G., Baize, D., Traidl, R., Vrisaj, B., Bräm, E., Gruber, F.E., Heinrich, K., Geitner, C. (2016): Soil classification and mapping in the Alps: The current state and future challenges. Geoderma 264, Part B, 312–331.

Inkscape.

FLO-2D,

- [4] Zieher, T., Gruber, F.E.; Rutzinger, M.; Meißl, G.; Geitner, C.; Perzl, F. (2016): Data requirements for the assessment of shallow landslide susceptibility using logistic regression. In: Proceedings of the 12th International Symposium on Landslides -Landslides and Engineered Slopes. Experience, Theory and Practice. Napoli, Italy. CRC Press, S. 2139-2146.
- [5] Gruber, F.E., Mergili, M. (2013): Regional-scale analysis of high-mountain multihazard and risk indicators in the Pamir (Tajikistan) with GRASS GIS. Natural Hazards and Earth System Sciences 13: 2779-2796.
- [6] Schneider, J.F., Gruber, F., Mergili, M. (2013): Impact of large landslides, mitigation measures. In: Genevois, R., Prestininzi, A. (eds.): International Conference on Vajont 1963-2013 Thoughts and analyses after 50 years since the catastrophic landslide. Proceedings of the International Conference Vajont 1963-2013, Padua, Italy, October 8-10, 2013. Italian Journal of Engineering Geology and Environment Book: 73-84.
- [7] Schneider, J.F., Gruber, F.E., Mergili, M. (2013): Recent Cases and Geomorphic Evidence of Landslide-Dammed Lakes and Related Hazards in the Mountains of Central Asia. In: Margottini, C., Canuti, P., Sassa, K. (eds.): Landslide Science and Practice: Volume 6: Risk Assessment, Management and Mitigation (Proceedings of the 2nd World Landslide Forum, FAO Headquarters Rome, Italy, October 3-9, 2011): 57-64. Springer, Heidelberg, Berlin, New York

Selected conference abstracts and presentations

- [8] Gruber, F.E., Baruck, J. und C. Geitner (2016): Joint analysis of parent material and topography to support soil survey a case study from South Tyrol. Jahrestagung der Österreichischen Forschungsgruppe für Geomorphologie und Umweltwandel und der Schweizerischen Gesellschaft für Geomorphologie 2016, Innsbruck (23.09.2016).
- [9] Gruber F.E., Baruck, J., Simon, A. und C. Geitner (2015): Reliefklassifizierung für die Erstellung von Bodenkarten anhand von geomorphons (GRASS GIS).— Posterausstellung im Rahmen der Jahrestagung der Deutschen Bodenkundlichen Gesellschaft, München 2015, AG Digital Soil Mapping (09.09.2015).
- [10] Gruber, F., Zieher, T., Rutzinger, M. und C. Geitner (2015): Geomorphons and structure metrics for the characterization of geomorphological landscape regions in Austria. European Geosciences Union General Assembly 2015 (EGU 2015), Wien (16.04.2015).
- [11] Gruber, F.E., Baruck, J., Rutzinger, M. and C. Geitner (2014): Landform segmentation for digital soil mapping. EGU General Assembly 2014 (28.04.-02.05.2014, Vienna (Austria)), Geophysical Research Abstracts Vol. 16, EGU2014-5644.