



Gerald Raab

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- Academic age: 1.5 yrs. since PhD.

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• [Google Scholar](#) • [Researchgate](#) • Website: <https://www.geraldraab.com/>

APPOINTMENTS

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| Today – 07/2021 | Postdoctoral Researcher Dalhousie University, Halifax, Canada. Determining Relief Evolution of the Alps with Muon-Paleotopometry. |
| 06/2021 – 03/2020 | Postdoctoral Researcher University of Zurich, Switzerland. Project “TERRA NOVA” – Exploring landscape evolution with coupled cosmogenic nuclides |
| 02/2020 – 10/2019 | Radiocarbon Laboratory Assistant University of Zurich, Switzerland. |
| 09/2019 – 04/2016 | PhD Candidate University of Zurich, Switzerland. Geochronology, Earth System Sciences. <i>BERYLLIUM - Boulder Exhumation Rates (over 10⁵ Years) in Low-gradient Landscapes In an Upland Mediterranean Area</i> |
| 11/2015 – 06/2014 | Graduate Researcher Karl-Franzens University of Graz, Austria. Geochronology and Geochemistry, Earth Sciences. <i>Advisors: Christoph Hauzenberger, Walter Kurz</i> |
| 06/2015 – 03/2015 | Graduate Teaching Assistant Technical University of Graz, Austria. Engineering Geology, Applied Geosciences. <i>Advisor: Daniel Scott Kieffer</i> |
| 02/2015 – 10/2014 | Graduate Research Technician Karl-Franzens University of Graz, Austria. Thin Section Laboratory, Earth Sciences. <i>Advisor: Kurt Stüwe</i> |
| 07/2014 – 07/2014 | Field Geologist Alfred Wegener Memorial Expedition, Greenland
<i>Advisor: Kurt Stüwe</i> |
| 05/2013 – 09/2012 | Project Manager “Design of Underground Excavations”, School of Engineering, Aalto University, Finland. <i>Advisor: Mikael Rinne</i> |
| 06/2012 – 08/2011 | Undergraduate Researcher Technical University of Graz, Austria. Applied Mineralogy and Hydrogeochemistry, Earth Sciences. <i>Advisor: Martin Dietzel, Daniel Höllen</i> |
| 06/2011 – 08/2010 | Marketing Researcher AGROsolution GmbH, Linz, Austria. |
| 06/2012 – 01/2007 | Paramedic Austrian Red Cross, District Office Steyr, Austria. |

SHORT RESEARCH STAYS

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| 04/2019 | University of Wroclaw, Poland . Host: Piotr Migoń. |
| 02/2017 | University of Wellington, New Zealand . Host: Kevin Norton. |



EDUCATION

- 09/2019–04/2016 PhD (Dr. sc. nat.). **University of Zurich**, Earth System Science. Thesis: The Tor Exhumation Approach – A New Technique to Derive Continuous In-Situ Soil Erosion and Surface Denudation Models. Advisor: Markus Egli, Committee members: Max Maisch, Fabian Scarciglia, Christine Alewell. Defence on 18.10.2019, Awarded: 31.01.2020 (with distinction)
- 11/2015–08/2012 MSc. **University of Technology Graz**, Earth Sciences, Awarded: 16.11.2015 Thesis: Magmatic, Metamorphic and Tectonic evolution of the Seckau Complex Complex in the Area of the Sonntagskogel Mountain (Triebener Tauern, Province of Styria).
- 05/2013–08/2012 Term abroad. **AALTO University, Helsinki**. Environmental Engineering
- 08/2012–10/2009 BSc. **University of Technology Graz**, Earth Sciences, Awarded: 23.08.2012 Thesis: Tailoring of hydrothermally altered diatomite for the removal of metal ions from waste water.
- 01/2007–04/2006 Paramedic, **Austrian Red Cross**.
- 06/2007–09/2002 Manager & Controller, **Federal Commercial Academy**, Steyr, Austria.

PRIZES, AWARDS, FELLOWSHIPS

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| 12/2019 | 1000,-- CHF | Distinction for <u>outstanding doctoral thesis</u> , University of Zurich |
| 12/2018 | 1000,-- CHF | Graduate Campus Travel Grant, University of Zurich. |
| 12/2018 | 300,-- CHF | Fellowship, Association Geography Switzerland. |
| 08/2018 | 500,-- CHF | Graduate School Grant, University of Zurich. |
| 04/2018 | 500,-- CHF | Graduate School Grant, University of Zurich. |
| 21/04/2017 | 300,-- CHF | Fellowship, Association Geography Switzerland. |

INVITED LECTURES

- 03/03/2021 Deriving continuous in-situ surface denudation models with rock tor exhumation pattern. AMS seminar. ETH Zürich.
- 25/03/2021 Climate and relief-induced controls on the temporal variability of denudation rates in a granitic upland. International Webinar on Geology and Earth Sciences.



AQUIRED FUNDS

Total: 233'903,-- CHF

04/2021	15'838,-- CHF	Polar Access Fund, Swiss Polar Institute
12/2019	117'650,-- CHF	Early Postdoc.Mobility Grant – SNSF
06/2019	88'219,-- CHF	Forschungskredit – University of Zurich
09/2018	9'500,-- CHF	InnoPool Project “SAFE” – University of Zurich
08/2014	2'500,-- EUR	Alfred Wegner Memorial Expedition, ÖH <i>Special Project Fund</i> , Karl-Franzens University of Graz

RESEARCH EXPEDITIONS & FIELD CAMPAGAINS

07/2020–07/2020	Serra da Estrela, Portugal (7 days): Geomorphological mapping, soil and rock sampling for fallout radionuclides and terrestrial cosmogenic nuclide dating.
02/2017–02/2017	Otago, New Zealand (7 days): Geomorphological mapping, soil and rock sampling for $^{239+240}\text{Pu}$ and in-situ ^{10}Be analysis.
09/2016–09/2016	Sila, Italy (5 days): Geomorphological mapping, soil and rock sampling for $^{239+240}\text{Pu}$ and in-situ ^{10}Be analysis.
05/2016–05/2016	Sila, Italy (7 days): Geomorphological mapping, soil and rock sampling for $^{239+240}\text{Pu}$ and in-situ ^{10}Be analysis.
08/2014–08/2014	Seckauer Tauern, Austria (21 days): Geological mapping, rock sampling for geochemical and zircon analysis.
07/2014–07/2014	Neerlerit Inaat, Greenland (19 days). Geological and geomorphological mapping, rock sampling for geochemical and petrological analysis.

ORGANIZATION OF CONFERENCES

Convener	<i>EGU 2019 – SC2.7: Visualizing Science, vEGU2021 – NET3: Crowd-solving Prolems in Earth Sciences.</i>
Assistant	<i>EGU 2011, EGU 2012, EGU 2013, EGU 2014, EGU 2015, EGU 2016, EGU 2017</i>
Organizer	<i>11/2018 – Innopool project: “SaFE – Safety and Field Education”,</i>

SUPERVISION OF RESEARCHERS

Personal Mentoring

11/2020–07/2020	<i>Wasja Dollenmeier, MSc. Student at UZH. Field and laboratory training in the course of the TERRA NOVA project</i>
02/2017	<i>Martin Harms, BSc. student from University of Potsdam. Laboratory training at Victoria University, Wellington, New Zealand.</i>
02/2017	<i>Aidan McLean. BSc. student from Victoria University. Field training. Otago upland, New Zealand.</i>



Committee Member

- 5/2021 **Served** on UZH MSc. Geography: Carmen Meiller – “Experimental Approach for Quantifying Operator and Protocol Related Uncertainties of Field Spectroscopy Measurements”
- 5/2021 **Examiner** on UZH MSc. Geography: Wasja Dollenmeier – “Determination of soil disturbances in Geopark Estrela (Portugal)”.
- 05/2020 **Served** on UZH MSc. Geography: Philip Schwitter – “Determinants of stopover sites of migration Swiss red kites (*Milvus milvus*)”.
- 05/2018 **Served** on UZH MSc. Geography: Aidan Bonner – “Everybody belongs here, because they want to: Geopolitics and the imaged geographies of emotion among young migrants in New York City”.
- 11/2017 **Served** on UZH MSc. Geography: Luke Albright – “Time oriented visual analytics in soccer. An implementation and assessment of timeline depicting the temporal value progression of dominance indicators in a soccer game”.

TEACHING ACTIVITIES

Instructor

- 2017 Fall Landslides, small group discussions, University of Zurich, BSc. level
- 2017 Spring Geology, excursion, University of Zurich, MSc. Level (co-taught)
- 2016 Fall Geochronology I, lab, University of Zurich, MSc. Level (co-taught)
- 2016 Fall Landslides, small group discussions, University of Zurich, BSc. level

Teaching Assistant

- 2015 Spring Landslides, excursions, Technical University of Graz, MSc. Level

PANELS, BOARDS, ASSOCIATIONS & REVIEWING ACTIVITIES

- Memberships** Bodenkundliche Gesellschaft der Schweiz, European Association of Geochemistry, European Geoscience Union, Jungen Geomorphologen, Naturwissenschaftlicher Verein Steiermark, DEUQUA, British Society for Geomorphology – BSG.
- Review** *Catena*, *Geoderma*, *Solid Earth*, *Geosciences*

PERSONAL SKILLS & NON-ACADEMIC LEADERSHIP

- Languages** German (native), English (C1), Spanish (B1), Italian (A2)
- IT** MS Office, Adobe CS6, ArcGIS, QGIS, GCDkit, Isoplot, MS, OS, Linux, Matlab
- Laboratory** Target chemistry for terrestrial cosmogenic nuclides (^{10}Be , ^{26}Al , ^{14}C) and fallout radionuclides ($^{239+240}\text{Pu}$), physical, chemical and mineralogical characterization of soils and rocks



Instruments	SEM (Zeiss DSM 962, JEOL JSM 6310), XRD (Panalytical X'Pert), XRF (Bruker Pioneer S4, Metek Spectro Xepos) ICP-MS (Agilent 7500), ICP-OES (PerkinElmer 4300),
Leadership experiences	Scout leader (10 years), Offshore sailing skipper (8 years), Red Cross (6 years), Trainer for adult scout leaders (2 years)

SERVICES TO UNIVERSITY

06/2016–03/2019	Mittelbau representative Faculty of Mathematics and Natural Science, University of Zürich
06/2016–09/2017	Laboratory focus group Department of Geography, University of Zürich

CAREER BREAKS

09/2009–11/2008	<i>Journey around the world (South- & North-America, Pacific Ocean, New Zealand, Australia, Asia, Europe)</i>
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