



Dr. Roman Hettelingh

Year of birth: 1991
Nationality: Switzerland

Contact details:

Email:
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Address:
Zurich, Switzerland

Languages:

German	Native
English	C2 (Cambridge)
French	~B2
Spanish	~B2

Interests/Hobbies:

Music:
Listen to and play (guitar)

Sports:
Trained J&S-coach for swimming;
cycling, bouldering, ski/snowboard

Education:

- 09.2017 – 09.2023 Dr. sc. ETH Zurich, ETH Zurich, Switzerland
Doctoral thesis (geotechnics): “Principles of construction on slow-moving landslides”, Prof. Dr. A. Puzrin
- 09.2015 – 08.2017 MSc ETH in Civil Engineering, ETH Zurich, Switzerland
Majors in Structural and Geotechnical Engineering
Master’s thesis (geotechnics): “Constitutive modelling of the undrained cyclic behaviour of silty clays”, Prof. Dr. A. Puzrin
- 09.2011 – 08.2014 BSc ETH in Civil Engineering, ETH Zurich, Switzerland
Bachelor’s thesis: “New construction of a manufacturing hall in Ziefen(BL)”, Prof. Dr. M. Fontana
- 01.2009 – 01.2010 Student exchange year, St. Brendan Shaw College, Devonport, Australia
- 08.2006 – 06.2011 Highschool diploma (Matura), Kantonsschule Solothurn, Solothurn, Switzerland

Work experience:

- Since 05.2024 Geotechnical engineering consultant, GeoMod ingénieurs conseils SA, Zurich, Switzerland
- 09.2017 – 12.2023 Assistant consultant, ETH Zurich, Switzerland
“Analysis of the Uetliberg landslide in Leimbach, Zurich”
- 09.2017 – 12.2023 Assistant lecturer, 30%, ETH Zurich, Switzerland
Courses: “Constitutive and Numerical Modelling in Geotechnics” & “Geotechnical Engineering”; Supervision of various Master’s theses and semester projects
- 09.2014 – 05.2015 Civil Engineering intern, Meichtry & Widmer Dipl. Ing. ETH/SIA AG, Zurich, Switzerland
- 09.2013 – 12.2013 Teaching assistant in “Linear algebra and numerical analysis” for civil engineers, ETH Zurich, Switzerland
- 02.2013 – 05.2013 Teaching assistant in „Statistics and probability theory“ for civil engineers, ETH Zurich, Switzerland

Expertise:

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|----------------------------|--|
| Geomechanics | Continuum mechanics
Soil mechanics
Constitutive modelling
Limit analysis |
| Numerical modelling | Finite Element Method (FEM)
Finite Difference Method (FDM)
Nonlinear optimisation problems |
| Laboratory and field tests | Triaxial tests
Oedometer tests
Inclinometer measurements |

IT knowledge:

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| Programming languages | Python, Fortran, C++, Shell |
| Software | Var. Finite Element Method (FEM) calculation software (ZSoil, Abaqus, Plaxis, Optum, RealESSI), AutoCAD, Inkscape |