

Isabelle Ousset

Researcher

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Working experience

- Since May 2024 **Researcher**, *Grenoble Applied Economics Laboratory (GAEL), INRAE - Grenoble Alps University*, Grenoble, France
- Responsible for the continuous development, maintenance, and operation of the prospective simulation model of the global energy system POLES, as well as associated databases, and engaging in prospective studies utilizing this model.
- 2023-2024 **Researcher**, *Institute of Environmental Geosciences (IGE), ECRINS team, INRAE - Grenoble Alps University*, Grenoble, France
- Pursuit of research projects in the field of civil engineering and mountain natural hazards.
- 2008-2022 **Researcher**, *Torrential erosion, snow and avalanche research unit (ETNA), Irstea then INRAE - Grenoble Alps University*, Grenoble, France
- In charge of research projects in the field of Civil Engineering structures subject to mountain hazards (snow avalanches, torrential floods, rockfalls).
- 1993-2007 **Engineer**, *State service*, Grenoble, France
- Responsible for environment police, more specifically for flood risk management (natural hazards mapping, notices on building permits) and wastewater treatment.
- 1991-1993 **Engineer**, *State service*, Digne-les-Bains, France
- Carrying out of water conveyance and wastewater projects.
- 1990-1991 **Engineer Assistant**, *Cemagref now INRAE*, Grenoble, France, (12 months)
- Prenormative study of anchors tests in soft soil on steep slope.

Education

- 2015 **PhD thesis in civil engineering**, *University of Lyon*, Host laboratories : Irstea Grenoble, Torrential erosion, snow and avalanche research unit (ETNA) and INSA Lyon, laboratory of civil and environmental engineering (LGCIE), Grenoble, France
- Contribution to finite element modeling of reinforced concrete structures subjected to snow avalanches - Application to the Taconnaz protection structure.
- 1991 **Master degree in mechanics**, *National Polytechnic Institute (INP)*, Grenoble, France
- Standardization of anchorage tests in soft soil and on steep slope - Test results and interpretation.
- 1991 **Engineering degree**, *Ecole Nationale des Ingénieurs des Travaux Ruraux et des Techniques Sanitaires (ENITRTS, now ENGEES)*, Strasbourg, France
- Anchoring tests in soft soil and on steep slope - Pre-standardization study.

Ability and skills

Languages

- French Native language.
English B2 level.

Computer skills

- OS Windows, Linux.
Office Microsoft Office, Latex, JabRef.
Programming Python, Matlab, R, Gibiane, HTML, CSS.
Softwares Vensim, Abaqus, Cast3M, UQLab, OpenTurns, Adobe Photoshop, Windows Movie Maker.

Modelisation

- Economics Prospective modeling (POLES model).
Civil engineering Finite Element modelling and mechanical-reliability coupling.