

Summer school on uncertainty in energy and integrated assessment models of climate change



15th June – 19th June 2026
University of Geneva



UNIVERSITÉ
DE GENÈVE

FACULTÉ DES SCIENCES

Schweizerische Eidgenossenschaft
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Swiss Confederation

Federal Department of Economic Affairs,
Education and Research EAER
State Secretariat for Education,
Research and Innovation SERI



PRISM



Swiss National
Science Foundation
(Grant no. 186834)

www.unige.ch/res



Who we are



Evelina Trutnevyte
Head of the Renewable
Energy Systems group



Ricardo Flores
Communication and KTT



Nik Zielonka
Postdoc

Welcome to the University of Geneva



- Founded in 1559 by John Calvin as a theological seminary; secular since 1873
- Over 19'000 students in all subjects, from languages, law and theology to natural sciences
- Renewable Energy Systems group is part of the Section of Earth and Environmental Sciences and the Institute of Environmental Sciences

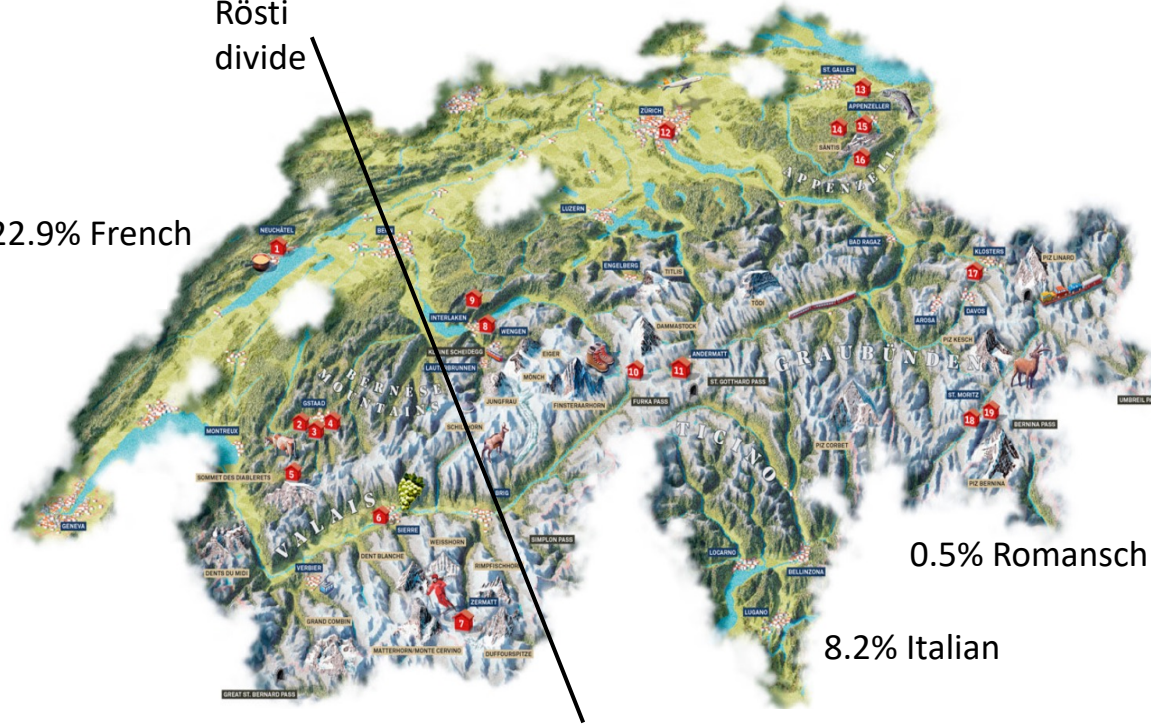


Fun facts about Geneva #1

62.6% German/Swiss German

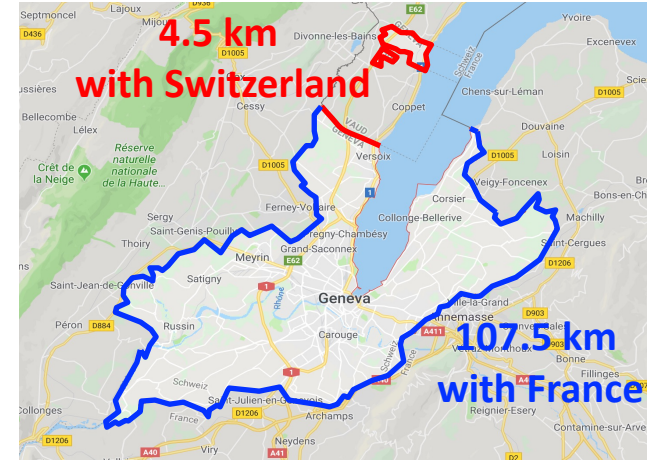
Rösti
divide

22.9% French



0.5% Romansh

8.2% Italian



Fun facts about Geneva #2



- European headquarters of the United Nations and over 40 other international organizations (World Health Organization, World Meteorological Organization, World Trade Organization, International Committee of the Red Cross, International Labor Organization etc.)
- 497 non-governmental organizations
- European Organization of Nuclear Research (CERN)
- 42% of the population are foreigners

Fun facts about Geneva #3



Goals for this week

We aim to create a community of young scholars who work with **energy systems models and integrated assessment models of climate change**, in order to jointly explore conceptual topics and methods for tackling **uncertainty**.

- Lectures on various concepts of uncertainty and advanced methods for uncertainty analysis in modeling;
- Hands-on practice sessions and a group project;
- Presentations by the students on their research.

Guest faculty



Céline Guivarch
CIRED

Robust decision making
and scenario discovery



François Lafond
University of Oxford

Probabilistic
methods



Giacomo Marangoni
TU Delft

Interpretable
machine learning



Stefano Moret
Politecnico di Milano

Decision tree
approach



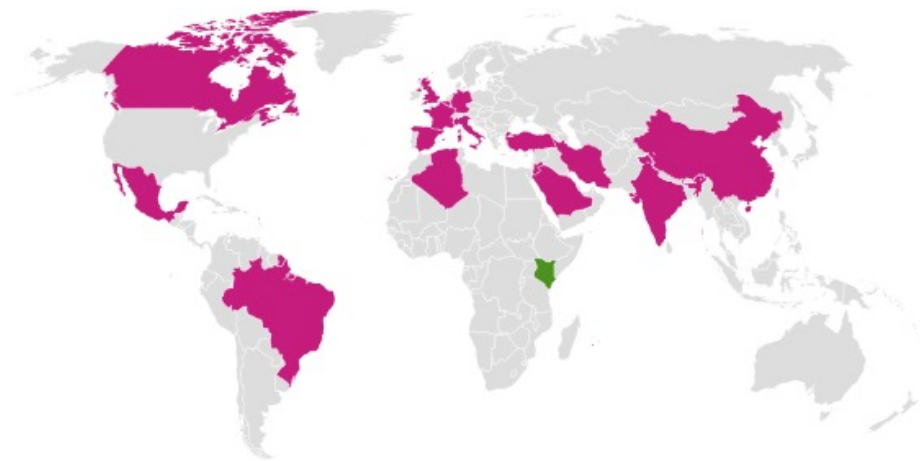
Andrea Saltelli
UPF Barcelona

Global sensitivity analysis,
broader perspective

Participants

29 participants:

- 16 nationalities
- 23 institutions worldwide
- 11 female / 18 male
- 23 PhDs, 5 postdocs and other levels



Nationalities of participants

Created with Datawrapper

Program



Monday 15 June	Tuesday 16 June	Wednesday 17 June	Thursday 18 June	Friday 19 June
09:00 – 09:30 Welcome <i>Evelina Trutnevyte</i> 09:30 – 11:00 Decision game + Various uncertainty perspectives <i>Guivarch · Saltelli</i> 11:00 – 11:30 Break 11:30 – 12:30 Participant presentations 12:30 – 13:30 Lunch 13:30 – 18:00 Machine learning + Probabilistic methods <i>Marangoni · Lafond</i> Incl. break (15:30-16:00) 19:00 🍷 Social dinner	09:00 – 11:00 Robust decision making & scenario discovery <i>Guivarch</i> 11:00 – 11:30 Break 11:30 – 13:00 Decision tree approach <i>Moret</i> 12:30 – 13:30 Lunch 13:30 – 14:30 Decision tree approach (continued) <i>Moret</i> 14:30 – 18:00 Group work Incl. break (15:30-16:00) 19:00 💡 Optional social activity (Geneva Beach)	09:00 – 11:00 Global sensitivity analysis <i>Saltelli</i> 11:00 – 11:30 Break 11:30 – 12:00 Group work 12:30 – 13:30 Lunch 13:30 – 18:00 Group work Incl. break (15:30-16:00) 19:00 💡 Optional social activity (Old town)	09:00 – 10:00 Expert elicitation <i>Trutnevyte</i> 10:00 – 11:00 Group work 11:00 – 11:30 Break 11:30 – 12:30 Group work 12:30 – 13:30 Lunch 13:30 – 18:00 Group work Incl. break (15:30-16:00) 19:00 💡 Optional social activity (UN, Botanical gardens)	09:00 – 10:00 Uncertainty, accuracy & uncertainty reduction <i>Trutnevyte</i> 10:00 – 11:00 Group work 11:00 – 11:30 Break 11:30 – 12:30 Group work 12:30 – 13:30 Lunch 13:30 – 15:30 Group work presentations 16:00 – 17:30 Closing session & feedback survey

Material

- All course material is available in the shared SwitchDrive folder:
<https://drive.switch.ch/index.php/s/8CAZ2vDfUVwGhYX>
- The material gets constantly updated throughout the summer school week.
What you find here:
 - **Program and logistical note** with all information you need to know
 - **Literature:** Suggested reading additional to the material presented in the lectures
 - **Posters:** Presented posters of all participants as PDF (same as printed)
 - **Lecture slides and material**
 - **Group work material**, including Scenario Compass Initiative (SCI) Data
 - ...

Practical information



Recordings & photos

Theory sessions will be recorded

All theory lectures will be captured via the UNIGE media server and made available to participants after the school.

Photos will be taken throughout the week

Pictures and recordings may be used for communication and reporting purposes by the PRISMA project and the University of Geneva.

Prefer not to appear?

No problem at all. Simply let us know at any point during the week and we will make sure you are not included in any photos or recordings.

→ Contact: **Ricardo Flores** or **Nik Zielonka**



Wi-Fi: eduroam or guest-unige

Already on eduroam?

If your institution is part of the eduroam network, you can connect directly via **eduroam** — no registration needed.

Connect to alternative network

Select **guest-unige** on your device. Make sure your browser allows pop-ups and JavaScript.

Register with your mobile number

Open any website in your browser — you will be redirected to the UNIGE e-portal. Click “Connect,” enter your mobile number, and confirm the SMS code you receive. Your access code is valid for 6 months.

→ Any questions? Contact **Ricardo Flores** or **Nik Zielonka**

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We wish you a
productive summer
school!



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