MICKAËL LALANDE

CONTACT

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🚗 Driving licence

SOCIAL NETWORKS

🐦 @LalandeMickael

in @mickaellalande

◯ @mickaellalande

🌐 mickaellalande.github.io

COMPUTER SKILLS

- **Python** (xarray, proplot, dask, pandas, scipy, xesmf, etc.)
- **Jupyter** Lab/Notebook
- **Linux**
- **GitHub**
- **Latex** (Overleaf)
- **Fortran** (basic level)
- **Climate models**: LMDZ/ORCHIDEE (IPSL)
- **Supercomputer**: Jean-Zay, TGCC

LANGUAGES

- **French** (native speaker)
- **English** (fluent)

RESEARCH INTERESTS

Mountainous Area - High Mountain Asia - Global Climate Models - CMIP6 - Snow Cover Parameterization

PROFESSIONAL EXPERIENCE

PhD Student
Institut des Géosciences de l'Environnement | Oct 2019 - Sep 2022

Cryosphere and climate modeling in the High Moutain Asia
(supervised by Martin Ménégoz and Gerhard Krinner)
↳ CMIP6 - LMDZ/ORCHIDEE (IPSL GCM) - Snow Cover Parameterization

Master thesis
Institut des Géosciences de l'Environnement | Feb 2019 - Jul 2019

Identification and filtering of oceanic chaos by Machine Learning
(supervised by Thierry Penduff and Redouane Lguensat)
↳ Oceanography - Chaos - Deep Learning - Spatial Altimetry

Research intern
Institut des Géosciences de l'Environnement | May 2018 - Jul 2018

Impact of Arctic sea ice variability on the northern latitude
(supervised by Olga Zolina and María Santolaria-Otín)
↳ Hydrological cycle - Models - Reanalyses

EDUCATION

Master in Atmosphere, Climate, and Continental Surfaces
Université Grenoble Alpes | 2017 - 2019

Bachelor's degree in Physics
Université Grenoble Alpes | 2013 - 2014

Bachelor's degree in Earth and Environmental Sciences
Université Grenoble Alpes | 2012 - 2013

Preparatory classes for French "Grandes Ecoles" CPGE
Lycée Joffre, Montpellier | 2009 - 2011

PUBLICATIONS

Lalande, M., Ménégoz, M., Krinner, G., Naegeli, K., & Wunderle, S. (2021). **Climate change in the High Mountain Asia in CMIP6**. Earth System Dynamics, 12(4), 1061–1098. https://doi.org/10.5194/esd-12-1061-2021

TALKS

Lalande, M., Ménégoz, M., and Krinner, G., Ottlé, C: **Aptation of a snow cover scheme for complex topography areas: regional calibration over High Mountain Asia and application in global models**, 3rd International Conference on Snow Hydrology, 1–4 Feb 2022, Grenoble, France.

Lalande, M., Ménégoz, M., and Krinner, G.: **Climate change in the High Mountain Asia simulated with CMIP6 models**, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-8365, https://doi.org/10.5194/egusphere-egu21-8365, 2021.

TEACHING

Climatic and Environmental Variability course
Université Grenoble Alpes | 2020 - 2021

- **Tutored project (~ 6h)**
  https://github.com/mickaellalande/variabilite_climatique
- **Python introduction (3h)**
- **Practical works (6h)**

ERCA school
Université Grenoble Alpes | 2022

- **Practical works (4h)**
  https://github.com/mickaellalande/ERCA

SUMMER SCHOOL

Mountain Research School
LabEx ITTEM & OSUG, massif des Écrins (French Alps) | 2021

Interdisciplinarity between Human and Social Sciences and Earth and Environmental Sciences within mountain territories.