

GIACOMO MORAGLIA

Physicist of the Earth System

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EDUCATION

PhD student in the Department of Civil Environmental Engineering and Earth Sciences

University of Notre Dame

2021- Notre Dame, Indiana

Research: *NASA funded project focused on simulating extreme precipitation events at the regional/urban scale*

Master in Physics of the Earth System

ALMA MATER STUDIORUM - Università di Bologna

2019 - 2021 Bologna, Italy

Thesis: *Analysis of pluviometric regime in North and South Carolina*

Bachelor Degree in Geology

Università degli Studi di Genova

2019 Genova, Italy

Thesis: *Analysis of termo-pluvometric data from historical time series registered by the meteorological observatory of Imperia*

CO-CURRICULAR/ EVENTS

Stage at ARPAL

Stage at ARPAL, Liguria - Meteorological Center of Civil Protection from 01/09/2017 to 31/01/2018. Weather forecasting and analysis of weather models results.

Co-founder of "Gli amici dell'Osservatorio Meteorologico di Imperia" association

Citizen association in order to protect the meteorological observatory of Imperia and support related initiatives.

Collaboration with InGeo geological survey

Volunteer at Civil Protection

From 2016 to 2017 volunteer at italian civil protection "Gruppo del Maro".

INFORMATIC SKILLS

R, MatLab, Office, \LaTeX , Climate Data Analysis



Phyton, Linux, Unix



Gimp, Photoshop, Fortran



LEARNING

- **MOUNTAINS 101** by University of Alberta Interdisciplinary field of study focusing on the physical, biological, and human dimensions of mountain places in Alberta, Canada, and around the world.
- **Climate Change seminar** by Dr. Gregory J. Carbone - University of South Carolina. PhD. seminar about the effect of climate change on global weather
- **Workplace safety courses** by University of Bologna.
- **Summer School** by LIBERA Overview of hydrogeological instability in Liguria, Italy.
- **ECDL** European Computer Driving Licence.

INTERESTS

Mountain Basket Geek culture

Rally Italian folksingers

RESEARCH WORK

- During my master thesis I showed a change in rainfall pattern across the Carolinas (USA) detected in the last Century. The results of this analysis suggest a change in rainfall pattern related to the global warming. Now I am working on a NASA funded project focused on simulating extreme precipitation events at the regional and urban scale and assessing changes in their spatio-temporal characteristics as a function of land use and atmospheric emission changes.

TEACHING

- Teaching assistant - Course: "Groundwater Hydrology" at University of Notre Dame by Prof. Alan Hamlet (CE 40460)

CAREER INTERESTS

Climate Change

Environmental monitoring

Weather forecasting

Human safety

Hydrogeological instability

Data analyst