



Adriano Fantini

Climatologist

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About me

I am currently a researcher at the International Centre for Theoretical Physics. My areas of expertise are climatology, hydrology and data science; I especially enjoy the technical aspects and challenges of data analysis and of the handling of large climatic simulations in High Performance Computing environments.

I like to get my hands dirty with building, fixing and (often) breaking things. I'm particularly interested in woodworking, electronics, coding and technology. I love climbing, trekking and hiking, and always find refuge in mountaineering when possible.

Skills

Climate

Floods

Statistics

R

Python

Git

HPC

GIS

Linux

Languages

- Italian
- English

Work

2019–now Visiting scientist
International Centre for Theoretical Physics
Trieste, Italy

Education

2019 Ph.D. in Earth Science and Fluid Mechanics
Climate change impact on flood hazard over Italy
Cum laude
Trieste, Italy

2015 Master's degree in Physics
Evaluation of the impact of the high resolution for the Alpine region in a present-day and future scenario simulation with the regional climate model RegCM4
110/110 cum laude
Trieste, Italy

2012 Bachelor degree in Physics
Use of the Arduino microcontroller to carry out measurements in the teaching of Physics in laboratories (in Italian)
106/110
Trieste, Italy

Publications

2019 Climate change impact on flood hazard over Italy
Fantini A. UniTS ArTS
Thesis supervisor: Coppola E.

2018 The European mountain cryosphere: A review of past, current and future issues
Beniston M., Farinotti D., Stoffel M., Andreassen L. M., Coppola E., Eckert N., Fantini A. et al. The Cryosphere

2016 Assessment of multiple daily precipitation statistics in ERA-Interim driven Med-CORDEX and EURO-CORDEX experiments against high resolution observations
Fantini A., Raffaele F., Torma C., Bacer S., Coppola E., Giorgi F., Ahrens B., Dubois C., Sanchez E., Verdecchia M. Climate Dynamics

Conferences and courses

2019 European Geosciences Union General Assembly Poster

2019 Energy Efficiency in HPC – Cineca Course

2019 BSAFE UNDSS–UNESCO Course

2018 9th ICTP Workshop on the Theory and Use of Regional Climate Models Speaker and lab assistant

2018 European Geosciences Union General Assembly Poster

2017 4th Workshop on Water Resources in Developing Countries: Hydro-climate Modeling and Analysis Tools Speaker and lab assistant

2017 10th HyMeX workshop Speaker

2017 European Geosciences Union General Assembly Participant

2016 16th European Meteorological Society Annual Meeting Speaker

2016 8th ICTP Workshop on the Theory and Use of Regional Climate Models Speaker and lab assistant

2016 ICRC-CORDEX 2016 Participant

2016 European Geosciences Union General Assembly Speaker

2015 CLIVAR-ICTP Workshop on Decadal Climate Variability and Predictability Participant

2015 3rd Workshop on Water Resources in Developing Countries: Planning and Management in Face of Hydroclimatological Extremes and Variability Participant

2014 7th ICTP Workshop on the Theory and Use of Regional Climate Models Participant

Other information

While attending University I have been a freelance English-Italian translator for a renowned technology website.

During both my Master's and my Ph.D. I have acted as elected student representative in University boards.

I authorise the treatment of my personal data under article 13 of the GDPR (UE regulation 2016/679) exclusively for staff selection and recruiting purposes.



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A proposito di me

Svolgo attualmente ricerca al Centro Internazionale di Fisica Teorica (ICTP). Sono specializzato in climatologia, idrologia e data science; mi interessano soprattutto gli aspetti tecnici insiti nell'analisi di grandi quantità di dati derivanti da simulazioni climatiche su ambienti di High Performance Computing. Come hobby modifico, aggiusto e spesso rompo oggetti dilettrandomi di falegnameria, elettronica, informatica e tecnologia. Amo molto camminare in montagna, arrampicare e fare escursioni, in particolare nelle Dolomiti dove sono cresciuto.

Competenze

Clima

Inondazioni

Statistica

R

Python

Git

HPC

GIS

Linux

Lingue

- Italiano
- Inglese

Lavoro

2019–now Visiting scientist
Centro Internazionale di Fisica Teorica (ICTP) Trieste, Italia

Titoli di studio

- 2019 Dottorato in Scienze della Terra e Meccanica dei Fluidi Trieste, Italia
Climate change impact on flood hazard over Italia
Conseguito con lode
- 2015 Laure magistrale in Fisica Trieste, Italia
Evaluation of the impact of the high resolution for the Alpine region in a present-day and future scenario simulation with the regional climate model RegCM4
110/110 con lode
- 2012 Laurea triennale in fisica Trieste, Italia
Utilizzo del microcontrollore Arduino per la realizzazione di misure nei laboratori didattici dei corsi di Fisica
106/110

Pubblicazioni

- 2019 Climate change impact on flood hazard over Italia UniTS ArTS
Fantini A. Supervisore di tesi: Coppola E.
- 2018 The European mountain cryosphere: A review of past, current and future issues The Cryosphere
Beniston M., Farinotti D., Stoffel M., Andreassen L. M., Coppola E., Eckert N., Fantini A. et al.
- 2016 Assessment of multiple daily precipitation statistics in ERA-Interim driven Med-CORDEX and EURO-CORDEX experiments against high resolution observations Climate Dynamics
Fantini A., Raffaele F., Torma C., Bacer S., Coppola E., Giorgi F., Ahrens B., Dubois C., Sanchez E., Verdecchia M.

Conferenze e corsi

- 2019 European Geosciences Union General Assembly Poster
- 2019 Energy Efficiency in HPC – Cineca Corso
- 2019 BSAFE UNDSS–UNESCO Corso
- 2018 9th ICTP Workshop on the Theory and Use of Regional Climate Models Speaker e assistente
- 2018 European Geosciences Union General Assembly Poster
- 2017 Fourth Workshop on Water Resources in Developing Countries: Hydroclimate Modeling and Analysis Tools Speaker e assistente
- 2017 10th HyMeX workshop Speaker
- 2017 European Geosciences Union General Assembly Partecipante
- 2016 16th European Meteorological Society Annual Meeting Speaker
- 2016 8th ICTP Workshop on the Theory and Use of Regional Climate Models Speaker e assistente
- 2016 ICRC-CORDEX 2016 Partecipante
- 2016 European Geosciences Union General Assembly Speaker
- 2015 CLIVAR-ICTP Workshop on Decadal Climate Variability and Predictability Partecipante
- 2015 3rd Workshop on Water Resources in Developing Countries: Planning and Management in Face of Hydroclimatological Extremes and Variability Partecipante
- 2014 7th ICTP Workshop on the Theory and Use of Regional Climate Models Partecipante

Altre informazioni

Durante l'università ho effettuato traduzioni dall'inglese in qualità di freelance per un noto sito web di tecnologia. Negli anni della laurea magistrale e del dottorato sono stato eletto come rappresentante degli studenti presso gli organi universitari.

Autorizzo il trattamento dei miei dati personali ai sensi dell'art. 13 Dlgs 196 del 30 giugno 2003 e dell'art. 13 GDPR (Regolamento UE 2016/679) ai fini della ricerca e selezione del personale.