

Alessandro Triacca

Nationality: Italian

Date of birth: 24/05/1994

Gender: Male

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WORK EXPERIENCE

Trainee

National Research Council (CNR) - STEMS [10/2020 – 04/2021]

City: Turin

Country: Italy

Analysis of climatic time series, agronomic data and data related to the physical and hydrological characteristics of the soil, with a focus on their relationship with soil erosion and rainfall runoff in vineyards.

Erasmus secretary

University of Rome "La Sapienza" [03/2019 – 10/2019]

City: Rome

Country: Italy

Managing students curricula and suggesting them physics courses in the home university .

Direct relationship with host universities to complete the bureaucratic and administrative aspects of Erasmus programs.

Waiter

Serpentine Bar & Kitchen [07/2012 – 09/2012]

City: London

Country: United Kingdom

Gained a broad base knowledge in all aspects of restaurant operations both front-of house and back-of house.

EDUCATION AND TRAINING

Master's Degree in Physics

University of Rome "La Sapienza" [09/2017 – 07/2020]

Final grade : 108/110

Thesis: Neural networks interpretability for the energy-classification of disordered systems.

Bachelor's Degree in Physics

University of Rome "La Sapienza" [09/2013 – 05/2017]

Final grade : 101/110

Thesis: Micromegas in the framework of gaseous ionisation detectors

LANGUAGE SKILLS

Mother tongue(s):

Italian

Other language(s):

English

LISTENING C1 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C1

German

LISTENING A1 READING A2 WRITING A2

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

DIGITAL SKILLS

Python / R and R Studio / MATLAB&Simulink / C / Mathematica / Java / LaTeX / Git / Linux

PUBLICATIONS

Are the autocorrelation structures of the hemispheric-mean temperatures significantly different?

[2020]

[rmets.onlinelibrary.wiley.com/doi/abs/10.1002/joc.6539](https://onlinelibrary.wiley.com/doi/abs/10.1002/joc.6539)

PROJECTS

Explain neural networks throughout statistical physics

[03/2020 – Current]

In collaboration with F. Ricci-Tersenghi (La Sapienza) and S. Giagu (La Sapienza).

Statistical study of rainfall runoff and soil erosion in vineyards

[10/2020 – Current]

In collaboration with M. Biddoccu (CNR), E. Cavallo (CNR) and J. Rodrigo-Comino (University of Granada).

CONFERENCES AND SEMINARS

Explaining neural networks using spin models

[Max Plank - Workshop on Artificial Scientific Discovery, 2021]

L'utilizzo della modellistica ARIMA-GARCH per la previsione a breve termine della serie della temperatura globale

[Prima Conferenza Nazionale sulle previsione meteorologiche e climatiche - Bologna, 2019]

www.conferenzameteoclima.it/wp-content/uploads/2019/07/triacca.pdf

LINGUISTIC EXPERIENCE(S)

Erasmus program

[09/2017 – 08/2018]

Erasmus program during the first year of master degree at Ludwig-Maximilians-Universität München.

High school year abroad

[08/2011 – 06/2012]

Senior year in Lincoln High School, Tallahassee, FL (United States of America).

OTHER TRAINING COURSE

MED-GOLD Living Lab

[2021]

Workshop on climate services for agriculture organised by the Italian National Agency for New Technologies, Energy and Sustainable Economic Development (ENEA).

MONICA course and training

[2021]

Workshop on the Model of Nitrogen and Carbon dynamics in Agro-ecosystems (MONICA) organised by the Leibniz Centre for Agricultural Landscape Research (ZALF).

Advanced Workshop on Nonequilibrium Systems in Physics

[2018]

Workshop on statistical mechanics and thermodynamics of phenomena out of equilibrium, particularly in physics, geosciences, and life sciences organised by the International Center for Theoretical Physics (ICTP).

Summer School in Physics of the Climate System

[2017]

Courses about climate studies from a wide range of perspectives organised by Utrecht University.