

Luigi Brogno

Date of Birth: 19/01/1996

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Education

- 11/2021 - 2024 **Ph. D. « Future Earth, Climate Change and Societal Challenges »**
Research Topic : « Meteorology and atmospheric physics : exchange processes between surface and atmosphere over complex terrain »
Alma Mater Studiorum - University of Bologna, Department of Physics and Astronomy
Supervisor: Prof. Silvana Di Sabatino,
Co-supervisor: Dr. Francesco Barbano, Dr. Laura Sandra Leo
- 02/2021 - 11/2021 **Post-Graduate Scholarship « Analyses of NBS solutions to mitigate risks connected to climate change »**
“OPERANDUM” Project
Alma Mater Studiorum - University of Bologna, Department of Physics and Astronomy
Supervisor: Prof. Silvana Di Sabatino
- 09/2017 - 03/2020 **Master’s Degree in Physics of the Earth System, 110/110 cum laude**
Alma Mater Studiorum - University di Bologna
 - Thesis: « Nocturnal Low-Level Jets over Complex Terrain: Driving Mechanisms and Analytical Modeling »
Supervisor : Prof. Silvana Di Sabatino
Co-supervisor : Dr. Francesco Barbano, Dr. Laura Sandra Leo
- 10/2014 - 07/2017 **Bachelor’s Degree in Physics, 110/110 cum laude**
University of Calabria
 - Thesis: « Studio di un Modello di Dinamica Climatica con Feedback Vegetazione-Albedo »
Supervisor : Prof. Fabio Lepreti, Prof. Vincenzo Carbone
- 09/2009 - 07/2014 **High-School Diploma (Liceo Scientifico), 100/100**
Istituto d’Istruzione Superiore Pezzullo, Cosenza (CS)

Languages:

Inglese: **B2 – IELTS Academic** (07/2019)
Overall Band Score: 6.0
Listening: 6.0 Reading: 7.0 Writing: 6.0 Speaking: 5.5

Software:

Microsoft Office (Word, Excel, PowerPoint, etc.), C++, Matlab, LaTeX. Basic knowledge of Python, R and WRF.

Certification and Publications

- 11/2019 – ongoing **Scientific Papers :**
- Brogno L., Barbano F. Leo L.S., Fernando H.J.S., Di Sabatino S. (2021), « Driving Mechanisms of Double-Nosed Low-Level Jets during MATERHORN Experiment », *Journal of the Atmospheric Sciences*, 78, pp. 4037-4051, DOI: 10.1175/JAS-D-20-0274.1
 - Barbano F., Brogno L., Tampieri F., Di Sabatino S. (2022), « Reciprocal Interaction between Waves and Turbulence within the Nocturnal Boundary-Layer », *Boundary-Layer Meteorology*, 183, pp. 35-65, DOI : 10.1007/s10546-021-00678-2
 - Barbano F., Leo L.S., Brogno L., Di Sabatino S., « Double-Nosed Low-Level Jet in Complex Terrain: a model from Inertial Oscillations ». Submitted to *Theoretical and Applied Climatology*

- 04/2021 **Conference Attendance** during the *European Geosciences Union - virtual General Assembly 2021*:
 -Brogno L., Barbano F., Leo L.S., Fernando H.J.S., Di Sabatino S., « **Double-Nosed Low-Level Jets over Complex Terrain: Driving Mechanisms and Analytical Modeling** », session AS2.3/SSS11.9, abstract EGU21-563, PICO presentation.
 -Barbano F., Brogno L., Tampieri F., Di Sabatino S., « **Reciprocal Interaction between Waves and Turbulence within the Nocturnal Boundary-Layer** », session AS2.1, abstract EGU21-6379, PICO presentation.
- 07/2020 « **Attestato di Formazione di Base di Meteorologo** », released by Alma Mater Studiorum - University of Bologna and World Meteorological Organization (WMO).
- 06/2020 **Abstract for Newsletter AISAM – Number 2, Year 2020**:
 -Brogno L., Di Sabatino S., Barbano F., Leo L.S., “**Nocturnal Low-Level Jets over Complex Terrain: Driving Mechanisms and Analytical Modeling**”.
- 09/2019 **Conference Attendance** during **ICAM2019 – 35° International Conference in Alpine Meteorology**:
 -Di Sabatino S., Barbano F., Brogno L., Leo L.S., Fernando H.J.S., « **Characteristics of Low-Level Jets in the Nocturnal Boundary Layer over Complex Terrain in Presence of Turbulent Burst** ».
- 06/2019 **Attendance of Higher Education School « Ritorno al Futuro. Note sulla Sostenibilità »**, organized by Fondazione CEUR and Fondazione per la Sussidiarietà.

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base all'art. 13 del D. Lgs. 196/2003 e all'art. 13 del Regolamento UE 2016/679 relativo alla protezione delle persone fisiche con riguardo al trattamento dei dati personali.