Europass Curriculum Vitae

Personal information

Surname(s) / First name(s)	**Boetti, Marco**
Address(es)	Corso Vittorio Emanuele II, 205 Torino Italy
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Nationality(-ies)	Italian
Date of birth	October 1, 1989

Education

2017-present	PhD in Mechanical Engineering, Tel Aviv University, Tel Aviv, Israel
2012–2014	Master in Physics, Università di Torino, Torino, Italy
2008–2012	Bachelor in Physics, Università di Torino, Torino, Italy
Academic background	After having learnt physics fundamentals during the Bachelor's degree program, I decided to attend the Master's degree program in Physics with a geophysics outline. Among the courses available in this academic program, my interest was oriented on atmosphere dynamic topics. Hence my proficiency area is related mainly to atmospheric physics within the PBL: meteorological processes, turbulence and dispersion phenomena, geophysics numerical modeling.

Experience

July 2014–April 2015	master student, with Dr. Trini Castelli as advisor, at ISAC-CNR (Institute of Atmospheric Sciences and Climate, National Research Council of Italy), Torino
September 2015–December 2016	grant holder at Labflux-DIST (Inter-university Department of Regional and Urban Studies and Planning), Torino

Conferences

April 2016	EGU (European Geosciences Union) General Assembly, Soil System Sciences (poster) session: "Evapotranspiration measurement and modeling without fitting parameters in high-altitude grasslands"
June 2016	11^{th} GIT (Geosciences and Information Technologies, Geological Socety of Italy) conference: "Simulation of mountain grasslands actual epotranspiration and remote sensing comparison"
October 2016	35^{th} ITM (International Technical Meeting) on Air Pollution Modelling and its Application: "Reviving MILORD long-range model for simulating the dispersion of the release during Fukushima nuclear power plant accident"

Languages

Mother tongue(s) **Italian**

Self-assessment *European level*(⋆)	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user	B2 Independent user
Frenc	A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user	A1 Basic user

(⋆) *Common European Framework of Reference (CEF) level*

July 2015 ETS, TOEFL internet based test

Computer skills

OS Linux, Unix, Windows

Programming Fortran 90/95, C++

Scientific Matlab, Mathematica

Master Thesis

- Title: Modelling the pollutant dispersion of the Fukushima nuclear plant
- Supervisors: Prof. Enrico Ferrero, Dr. Silvia Trini Castelli
- Description: The study of the atmospheric dispersion through numerical modelling led to a great development of this branch of physics so that reliable pollutant dynamics reconstruction and prediction, both in time and space, are possible also where direct measurements are not available. The thesis work focused specifically on long range dispersion using the numerical model MILORD, a Lagrangian particle model capable of simulating transport, dispersion, removal and deposition of tracers. The case study chosen concerns the release of Caesium isotope ^{137}Cs from Fukushima Dai-ichi nuclear plant caused by the earthquake and the following tsunami on 11 March 2011. Caesium deposition and concentration in the affected area are reproduced from 11 March until the end of that month. In order to evaluate and improve the model under both the physical and the numerical point of view, several parts of MILORD were modified. After that, simulations results were compared to stations measurements and a sensitivity analysis will be performed.