

Lorenzo Boggia

Citizenship: Italian ▪ Date of birth : 05/27/1987

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Education

2013 to 2016	PhD in Pharmaceutical and Biomolecular Sciences University of Turin, Doctoral School of Sciences and Innovative Technologies, Turin (TO), Italy
2009 to 2012	MS in Environmental Biology - Plant Ecology specialization (April 2012) University of Turin, Faculty of Science, Turin (TO), Italy
2006 to 2009	Bachelor in Natural Sciences (104/110) University of Turin, Faculty of Science, Turin (TO), Italy
2001 to 2006	Scientific High School Degree (82/100) Scientific High School "G. Peano", Cuneo (CN), Italy

Research experience

01/2013 to 02/2016	"Development of new strategies to study the composition of high complexity samples from biologically active plant species: definition of metabolite profiling in toto of biologically active fractions through advanced extraction methods and chromatographic techniques combined with mass spectrometry." (PhD thesis) GC-MS qualitative and quantitative analyses; headspace sampling; PCR and qPCR; multivariate analysis and modeling (R, SPSS, XLstat); plant-insect interactions; food security
05/2011 to 04/2012	"Habitats of the Liorousa Valley (Maritime Alps). Characterization and mapping." (MS thesis) Phytosociological sampling; flora determination; GPS use; cluster analysis with R (RCommander); habitat determination and description; ArcGIS 9.3 use (map editing, spatial analyst, layout)
05/2009 to 11/2009	"Dispersal and conservation of <i>Maculinea arion</i> (Lepidoptera: Lycaenidae)" (BS' thesis) BS' thesis from collaboration between University and Gesso e Stura Natural Park Capture-Mark-Recapture, pupa searching in ant nests, Virtual Migration Model (Hanski <i>et al.</i> 2000), population and dispersal estimation

Work experience

University of Turin	Field biologist May to August, 2012
✓ Environmental assessment of suburban areas: ✓ Vegetation surveys in Ulm (Germany) and Lepidoptera surveys in Mantova (Italy)	
Parco Naturale delle Alpi Marittime, Valdieri (CN) Natural Park (www.parks.it/parco.alpi.marittime/)	Internship May to August, 2011
✓ Flora and habitat studies about Liorousa Valley (Valdieri, CN, Italy) ✓ Habitat characterization and mapping of the Liorousa Valley (Valdieri, CN, Italy)	
deltatre s.p.a., Turin (TO) Media Service (www.deltatre.com)	Part-time job 2009 to 2011
✓ Live creation of multimedia files about Champions League matches	
Parco fluviale Gesso e Stura, Cuneo (CN) Natural Park (www.parcofluvialegessostura.it)	Internship May to August, 2009
✓ Population and dispersal study of <i>Maculinea arion</i> (Lepidoptera: Lycaenidae)	
American Conservation Experience, Flagstaff AZ Non-profit organization (www.usaconservation.org)	Volunteering August, 2005
✓ Trail restoration (field crew member)	

Publications

Boggia L, Sgorbini B, Berteà CM, Cagliero C, Bicchi C, Maffei ME, Rubiolo P (2015) *Direct Contact - Sorptive Tape Extraction coupled with Gas Chromatography - Mass Spectrometry to reveal volatile topographical dynamics of lima bean (Phaseolus lunatus L.) upon herbivory by Spodoptera littoralis Boisd.*, BMC Plant Biology;15:102. doi: 10.1186/s12870-015-0487-4

Sgorbini B, Cagliero C, Boggia L, Liberto E, Reichenbach SE, Rubiolo P, Cordero C, Bicchi C (2015) *Parallel dual secondary-column-dual detection comprehensive two-dimensional gas chromatography: a flexible and reliable analytical tool for essential oils quantitative profiling*, doi: 10.1002/ffj.3255

Sgorbini B, Cagliero C, Pagani A, Sganzerla M, Boggia L, Bicchi C, Rubiolo P (2015) *Determination of free and glucosidically-bound volatiles in plants. Two case studies: L-menthol in peppermint (Mentha x piperita L.) and eugenol in clove (Syzygium aromaticum (L.) Merr. & L.M.Perry)*, submitted to Phytochemistry

Congress abstracts

Boggia L; Sgorbini B; Berteà C; Cagliero C; Colombo ML; Bicchi C; Maffei M; Rubiolo P (2014) *Topographical dynamics of damage-related volatile emission in Phaseolus lunatus L.*, International Plant Science Conference and 109th SBI (Società Botanica Italiana) Congress, 2-5 September 2014, Florence (Italy)

Sgorbini B; Cagliero C; Boggia L; Colombo ML; Bicchi C; Rubiolo P (2014) *Aromatic plants: from the aroma to herbal teas*, International Plant Science Conference and 109th SBI (Società Botanica Italiana) Congress, 2-5 September 2014, Florence (Italy)

Colombo ML; Falciola C; Bicchi C; Boggia L; Cagliero C; Rubiolo P; Sgorbini B; Davanzo F (2014) *Toxic plants: the role of a pharmaceutical botanist as a support of the EAD (Emergency Alert Department) Hospital*, International Plant Science Conference and 109th SBI (Società Botanica Italiana) Congress, 2-5 September 2014, Florence (Italy)

Bicchi C; Boggia L; Cagliero C; Cordero C; Liberto E; Sgorbini B; Rubiolo P (2014) *The fundamental role of sampling and separation sciences in the definition of multitrophic phenomena*, 38th International Symposium on Capillary Chromatography and 11th GCxGC Symposium, 18-23 May 2014, Riva del Garda (Italy)

Languages

Italian (native)

English (B2, upper intermediate)

French (A2, basic)

Activities and Interests

Nature	Plant taxonomy, phytosociology, plant ecology, eco-physiology
Wildlife activities	Hiking, mountain-bike, ski-touring
Sports	Rugby, basketball
Traveling	Italy, France, UK, Ireland, USA, Turkey, Albany, Germany, Hungary, Spain, Portugal