

## CURRICULUM VITAE

### Costanza Bonadonna

Université de Genève, Département de Sciences de la Terre, Rue des Maraîchers 13, CH-1205

ORCID: <https://orcid.org/0000-0002-2368-2193>

Google Scholar: <https://scholar.google.com/citations?user=bFt783QAAAAAJ&hl=en>

E-mail: [Costanza.Bonadonna@unige.ch](mailto:Costanza.Bonadonna@unige.ch)

Personal webpage: <http://www.unige.ch/hazards/About/People/Bonadonna.html>

### EDUCATION

1998-2001	<u>PhD, Physical Volcanology</u>	University of Bristol, UK
1990-1997	<u>Degree, Geology</u> (110 out of 110, cum laude)	University of Pisa, Italy

### PROFESSIONAL APPOINTMENTS

since 2019	<u>Full Professor</u>	University of Geneva (Switzerland)
2006-2018	<u>Associate Professor</u>	University of Geneva (Switzerland)
2004-2006	<u>Assistant Professor</u>	University of South Florida, Tampa (USA)
2002-2004	<u>SOEST Young Investigator</u>	University of Hawaii, Manoa (USA)
2001-2002	<u>Research Associate</u>	University of Bristol (UK)
1998	<u>Member of scientific team</u>	Montserrat Volcano Observatory (WI)
1998-2001	<u>Graduate Fellowship</u>	University of Bristol (UK)
1997	<u>Ash monitoring team leader</u>	Montserrat Volcano Observatory (WI)
1997-1998	<u>Research Assistant</u>	University of Bristol (UK)

### INSTITUTIONAL RESPONSABILITIES

since 2019	<b>Member</b> of the Gender Equality Commission of the Faculty of Sciences (UNIGE)
since 2018	<b>Member</b> of Natural Sciences Policy Group of the League of European Research Universities
since 2018	<b>Vice-Dean</b> of the Faculty of Sciences of the University of Geneva
since 2007	<b>Development and Direction</b> of the Master in Geology – Orientation Geological Risk – of the University of Geneva (ELSTE), Switzerland
since 2007	<b>Director</b> of the CERG-C ( <i>Specialisation certificate for the assessment and management of geological and climate related risk</i> ; University of Geneva; <a href="http://www.unige.ch/hazards/">www.unige.ch/hazards/</a> )
2014-2018	<b>Vice-President</b> of ELSTE, Joint Geneva and Lausanne School of Earth Sciences
2014-2018	<b>Member</b> of the Commission Consultative de la Solidarité Internationale, Etat de Genève
2012-2019	<b>Member</b> of the Steering Committee of the Centre for Education and Research in Humanitarian Action (CERAH; <a href="http://www.cerahgeneve.ch/home/">http://www.cerahgeneve.ch/home/</a> )

### APPROVED RESEARCH PROJECTS

2022-2026	<b>SNSF</b> , “Combining field, experimental and numerical investigations for a quantitative description of tephra transport and sedimentation from volcanic plumes and clouds”
2019-2023	<b>SNSF</b> , “A new probabilistic framework for regional volcanic risk assessment including hazards interacting at multiple temporal and spatial scales”
2018-2021	<b>H2020-FETOPEN-2016-2017</b> , “NEWTON-g: New Tools for Terrain Gravimetry”
2018-2021	<b>H2020-INFRAIA-2016-2017</b> , “EUROVOLC: European Network of Observatories and Research Infrastructures for Volcanology”
2017-2021	<b>SNSF</b> , “Modelling settling-driven gravitational instabilities from volcanic clouds”
2015-2019	<b>SNSF</b> , “A new integrative multi-hazard volcanic risk assessment combining multi-temporal and multi-spatial scales”
2014-2016	<b>PASC</b> , “Optimal deployment of multiscale applications on a HPC Infrastructure”
2015-2016	<b>SNSF</b> , “Combining geophysical observations and numerical modelling for an improved prediction of volcanic ash dispersal”
2014-2017	<b>SNSF</b> , “Experimental and field investigations of particle aggregation”
2014-2018	<b>EC-ITN</b> “VERTIGO Volcanic ash: FiEld, expeRimenTal and numerIcal investigations of prOcesses during its lifecycle”
2013-2015	<b>SNSF</b> , “A new multi-disciplinary model for the assessment and reduction of volcanic risk: the example of the island of Vulcano, Italy”
2012-2016	<b>EC-FP7</b> “FUTUREVOLC—A European volcanological supersite in Iceland: a monitoring system and network for the future”
2012-2014	<b>SNSF</b> , “Experimental and field investigations of particle aggregation”
2012-2016	<b>EC-ITN</b> “NEMOH Numerical, Experimental and stochastic Modelling of vOlcanic processes and Hazard: an Initial Training Network for the next generation of European volcanologists”
2012-2015	<b>SNSF</b> , “Combining geophysical observations and numerical modelling for an improved prediction of volcanic ash dispersal”
2011-2016	<b>ESF-RNP</b> “MeMoVolc - Measuring and modelling of volcano eruption dynamics”

- 2010-2013 SNSF, “A new multi-disciplinary model for the assessment and reduction of volcanic risk: the example of the island of Vulcano, Italy”
- 2009-2012 SNSF, “Numerical, experimental and field investigations of particle aggregation”
- 2008-2011 SNSF “Two phase flow regimes in low viscosity magmas”
- 2008-2011 EC-FP7 “ENSURE—Enhancing resilience of communities and territories facing natural and natech hazards”
- 2007-2009 SNSF, “Characterization of the Dynamics and the Products of Basaltic Explosive Volcanism”
- 2003-2006 American NSF, “Tephra Dispersal from Basaltic Plinian Eruptions: The Case Study of the Fontana Lapilli Scoria-Fall Deposit, Masaya Caldera Complex, Nicaragua.”

### COMMUNITY INVOLVEMENT

- since 2021 **President-Elect** Volcanology, Geochemistry and Petrology - *American Geophysical Union*
- since 2021 **Senior Editor** of the 3rd edition of the *Encyclopaedia of Volcanoes* (Elsevier)
- since 2004 **Life member**: *International Association of Volcanology and Chemistry of the Earth's Interior*
- 2018-2021 **Member** of the Steering Committee of H2020-INFRAIA: “EUROVOLC: European Network of Observatories and Research Infrastructures for Volcanology” 2018-2021
- 2019-2020 **Selected** for the H.I.T. program - *High Potential University Leaders Identity & Skills Training Program - Gender Sensitive Leaders in Academia*
- 2018-2020 **Member** of the selection committee for the early career *AGU Hisashi Kuno Award*
- 2014-2020 **Associate Editor** of *Bulletin of Volcanology* (<http://link.springer.com/journal/445>)
- 2012-2021 **Member** of the Scientific Committee of the *Humanitarian Encyclopaedia* project launched by CERAH (<https://humanitarianencyclopedia.org/>)
- 2011-2016 **Member** of the Steering Committee of the ESF-funded Network Program *MeMoVolc - Measuring and modelling of volcano eruption dynamics* 2011-2016
- 2016-2017 **Member** of the working group of the *Italian Civil Protection* for the compilation of the scientific report necessary for the development of the Emergency Plan of Vulcano island, Italy
- 2012-2014 **Member** of the Committee nominated by the *Italian Civil Protection* for the evaluation of national projects
- 2003-2011 **Leader** of the *IAVCEI Commission on Tephra Hazard Modelling*

### ORGANIZATION OF INTERNATIONAL WORKSHOPS AND CONFERENCES

- 2019 **Co-organizer** of the international workshop on *Wind-remobilisation processes of volcanic ash* (<http://www.unige.ch/hazards/international-conferences/ash-remobilisation-2019/>; Argentina)
- 2018 **Organizer** of the 1<sup>st</sup> GVM-IAVCEI international workshop on *From hazard to volcanic risk* (<http://www.unige.ch/hazards/international-conferences/iavcei-gvm-workshop-2018/>; Geneva)
- 2017-2018 **Member** of the Scientific Committee of the International Conference *Cities on Volcanoes 10* (<https://www.citiesonvolcanoes10.com/>; 2-7 Sept. 2018, Naples, Italy)
- 2015 **Organizer** of the international workshop on *Building resilient communities through urban planning and the integration of natural sciences* (<http://www.unece.org/index.php?id=37512#/>)
- 2014 **Co-organizer** of the international MeMoVolc workshop on *The dynamics of volcanic explosive eruptions* ([www.unige.ch/hazards/international-conferences/memovolc-workshop/](http://www.unige.ch/hazards/international-conferences/memovolc-workshop/); Geneva)
- 2011 **Organizer** of the international meeting on *Risk management: which strategies in a world of increasing complexity?* ([www.unige.ch/hazards/international-conferences/riskmanagement/](http://www.unige.ch/hazards/international-conferences/riskmanagement/); Geneva)
- 2010-2013 **Co-Organizer** of the 1<sup>st</sup> and 2<sup>nd</sup> IUGG-WMO international workshops on *Ash Dispersal Forecast and Civil Aviation* ([www.unige.ch/hazards/international-conferences/workshop2/](http://www.unige.ch/hazards/international-conferences/workshop2/); Geneva)
- 2006 **Organizer** of the IAVCEI Tephra Hazard Modelling Commission field workshop on *Field measurements for the characterization of tephra deposits* (Saucedo, Ecuador, 16-18 Jan. 2006)

### AWARDS

- since 2021 **Member** of the Academia Europaea (<https://www.ae-info.org/>)
- 2020 **International Galileo Galilei Award** of the Italian Rotary Clubs for Sciences
- 2020 **Woman Scientist of the Month** (April 2020) European Platform of Women Scientists
- 2005 **Outstanding Faculty Research Achievement Award**. University of South Florida (USA)
- 2005 **Research Rising Star**. University of South Florida (USA)
- 2004 **Outstanding Woman in Science Award**. Geological Society of America (USA)
- 2004 **George Walker Award**. International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI)
- 2002-2004 Position in the **SOEST Young Investigator** Program of the University of Hawaii (USA)
- 2001 **President's Award**. Geological Society of London (UK)
- 2001 **Outstanding Student Paper Award**. AGU Fall Meeting. San Francisco, USA
- 1998-2001 **Marie Curie Fellow** (European Commission Mobility Program Grant for PhD)