

CURRICULUM VITAE

Costanza Bonadonna

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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)
2006-2019	<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 AT THE UNIVERSITY OF GENEVA

since 2023	Dean of the Faculty of Sciences (UNIGE)
2018-2023	Vice-Dean of the Faculty of Sciences (UNIGE), which includes the following tasks: President of the Commission for Occupational Safety (Faculty), President of Commissions of Nomination, Renewal and Promotions (Faculty), Member of the Gender Equality and Diversity Commission (Faculty), Responsible of the Career Forum (Faculty), Member of LERU-NATU, Member of the Commission for Sustainable Development Goals (Rectorate).
since 2007	Development and co-direction of the Master in Geology – Orientation Geological Risk – of the Joint Geneva and Lausanne School of Earth Sciences (ELSTE)
since 2007	Director of the CERG-C program (<i>Specialisation certificate for the assessment and management of geological and climate related risk</i> : www.unige.ch/hazards/ ; UNIGE)
2019-2022	Member of the steering committee of the Geneva-Tsinghua Initiative (UNIGE)
2018-2021	Member of the Conseil de Section (Section Earth and Environmental Sciences) (UNIGE)
2014-2018	Vice-President of ELSTE, Joint Geneva and Lausanne School of Earth Sciences
2014-2018	Member of the Commission Consultative de la Solidarité Internationale, Etat de Genève
2014-2021	Member of the Scientific Committee of the <i>Humanitarian Encyclopaedia</i> project launched by CERAH (https://humanitarianencyclopedia.org/) (UNIGE)
2012-2019	Member of the Steering Committee of the Centre for Education and Research in Humanitarian Action (CERAH; http://www.cerahgeneve.ch/home/) (UNIGE)
2009-2013	Professor representative in the University Assembly (UNIGE)

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 (https://epws.org/woman-scientist-costanza-bonadonna/)
2019	Selected for the H.I.T. program - High Potential University Leaders Identity & Skills Training Program - Gender Sensitive Leaders in Academia
2019	Selected for the program « 100 femmes et des milliers d'autres » (https://100femmes.ch/portraits/costanza-bonadonna/)
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 (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)

APPROVED RESEARCH PROJECTS

2022-2026	<u>SNSF</u> , “Combining field, experimental and numerical investigations for a quantitative description of tephra transport and sedimentation from volcanic plumes and clouds”
2019-2023	<u>SNSF</u> , “A new probabilistic framework for regional volcanic risk assessment including hazards interacting at multiple temporal and spatial scales”
2018-2022	<u>H2020-FETOPEN-2016-2017</u> , “NEWTON-g: New Tools for Terrain Gravimetry”
2018-2021	<u>H2020-INFRAIA-2016-2017</u> , “EUROVOLC: European Network of Observatories and Research Infrastructures for Volcanology”
2017-2021	<u>SNSF</u> , “Modelling settling-driven gravitational instabilities from volcanic clouds”

- 2015-2019 SNSF, “A new integrative multi-hazard volcanic risk assessment combining multi-temporal and multi-spatial scales”
- 2014-2016 PASC, “Optimal deployment of multiscale applications on a HPC Infrastructure”
- 2015-2016 SNSF, “Combining geophysical observations and numerical modelling for an improved prediction of volcanic ash dispersal”
- 2014-2017 SNSF, “Experimental and field investigations of particle aggregation”
- 2014-2018 EC-ITN “VERTIGO Volcanic ash: FiEld, expeRimenTal and numerIcal investigations of prOcesses during its lifecycle”
- 2013-2015 SNSF, “A new multi-disciplinary model for the assessment and reduction of volcanic risk: the example of the island of Vulcano, Italy”
- 2012-2016 EC-FP7 “FUTUREVOLC—A European volcanological supersite in Iceland: a monitoring system and network for the future”
- 2012-2014 SNSF, “Experimental and field investigations of particle aggregation”
- 2012-2016 EC-ITN “NEMOH Numerical, Experimental and stochastic Modelling of vOlcanic processes and Hazard: an Initial Training Network for the next generation of European volcanologists”
- 2012-2015 SNSF, “Combining geophysical observations and numerical modelling for an improved prediction of volcanic ash dispersal”
- 2011-2016 ESF-RNP “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 na-tech 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 2023 **President** of the International Association of Volcanology and Chemistry of the Earth's Interior (IAVCEI) (<https://www.iavceivolcano.org/>)
- since 2023 **President** of the Volcanology, Geochemistry and Petrology (VGP) section of the *American Geophysical Union* (<https://connect.agu.org/vgp/>)
- since 2022 **Honorary Member** of the *Latin American Association of Volcanology* (ALVO)
- since 2022 **IUGG expert** of the *WMO Aviation Advisory Group on Volcanic Science for Applications*
- since 2021 **Editor-in-Chief** of the 3rd Edition of the *Encyclopaedia of Volcanoes - Elsevier*
- 2018-2021 **Member** of the Steering Committee of H2020-INFRAIA: “EUROVOLC: European Network of Observatories and Research Infrastructures for Volcanology” 2018-2021
- 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>)
- 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 **Co-organizer** of the 1st 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 **Co-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/memovolg-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/; Geneva)
- 2010-2013 **Co-organizer** of the 1st and 2nd IUGG-WMO international workshops on *Ash Dispersal Forecast and Civil Aviation* (www.unige.ch/hazards/international-conferences/workshop2/; Geneva)
- 2006 **Co-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)