


## PERSONAL INFORMATION

### AUGUSTO NERI



 Forte dei Marmi (Lucca), Italia  
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 <http://www.pi.ingv.it/chisiamo/paginepersonali/neriEV.html>

Sex M | Date of birth 10/11/1963 | Nationality ITALIAN

## WORK EXPERIENCE

01/08/2016-today

### Istituto Nazionale di Geofisica e Vulcanologia

[www.ingv.it](http://www.ingv.it)

Government

Research Director

Director of the INGV Volcanoes Department (confirmed on July 2019)

01/09/2013-31/07/2016

### Istituto Nazionale di Geofisica e Vulcanologia

[www.ingv.it](http://www.ingv.it)

Government

Research Director

Responsible of the Research Group "Eruption dynamics and scenarios", INGV - Sezione di Pisa

01/11/2005-31/08/2013

### Istituto Nazionale di Geofisica e Vulcanologia

[www.ingv.it](http://www.ingv.it)

Government

Research Director

Director of the INGV - Sezione di Pisa

01/11/2003-present

### Istituto Nazionale di Geofisica e Vulcanologia

[www.ingv.it](http://www.ingv.it)

Government

Research Director

Physics of volcanic processes

16/10/1998-31/10/2003

### Consiglio Nazionale delle Ricerche – Istituto di Geoscienze e Georisorse

[www.cnr.it](http://www.cnr.it)

Government

Senior Researcher

Volcanology and geothermal sciences

16/10/1996-15/10/1998

### Consiglio Nazionale delle Ricerche – Centro di Studio per la Geologia Strutturale e Dinamica dell'Appennino

www.cnr.it  
Government  
Researcher on contract  
Physical modelling of volcanic processes

01/09/1990-15/10/1996 **Università di Pisa, Istituto Nazionale di Geofisica, Consiglio Nazionale delle Ricerche**  
Government  
Research fellow  
Physical modelling of volcanic processes

Mother tongue(s) ITALIAN

Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	C1	C1	C1	C1	C1

## EDUCATION AND TRAINING

1995-1998 PhD in Chemical Engineering, Illinois Institute of Technology, Chicago, Illinois, USA.

1982-1990 Master Degree in Chemical Engineering, University of Pisa, Pisa, Italy (*cum laude*)

**Honours and awards**

2018: Fellow of the Geological Society of America (GSA);  
2017: Sergey Soloviev Medal of the European Geosciences Union (EGU) - Natural Hazards Section;  
2017: Honorary Fellow of the Geological Society of America (GSA);  
1996: Honor diploma, with medal, for the contributions provided during the eruption "Etna 1991-92", Presidenza del Consiglio dei Ministri, Rome;  
1991: Placed first and winner of a permanent position in the ENEL Research Center, Pisa;  
1991: Dow Chemical Italia Award for the best master thesis of 1990, Pisa.

Community  
service and other  
activities:

- Member of the Scientific Committee of the Labex UnivEarth Programme, Université de Paris (2019-present);
- Associate Editor of *Geosciences*, MDPI (2018-present);
- Associate Editor of *Frontiers in Geohazards and Georisks*, Nature Publishing Group (2016-present);
- Member of Management Board of the International G-EVER Consortium (2014-present);
- Member of VASAG (*Volcanic Ash Scientific Advisory Group*) of WMO-IUGG (2010-present);
- Member of Advisory Board of the EU-funded WEZARD project (2011-2013);
- Chair International Conference "Modeling Earth Dynamics: Complexity, Uncertainty and Validation (2010);
- Member of Scientific Committee of Dipartimento della Protezione Civile, Italy, for the assessment of volcanic hazard at Campi Flegrei caldera (2009-2012);
- Guest Editor of JVGR Special Volume *Evaluating explosive eruption risk at European volcanoes* (2006-2008);
- Member of Editorial Board, Journal of Volcanology and Geothermal Research (2005-2011);
- IAVCEI representative of IUGG Committee of Mathematical Geophysics (2002-2010);
- Convener/co-convener of scientific sessions at the following international conferences: EGU (2004, 2005, 2006, 2010, 2011), IAVCEI (2004, 2013), IUGG (2003, 2007, 2011), COV (2007); CMG (2010);
- Expert evaluator and referee of the following organizations (not continuously): European Union (2001-present); National Science Foundation (2001-present); American Geophysical Union (2010-present), Royal Society of New Zealand (2008-present), Nanyang Technological University (2015-present), Ministero dell'Istruzione, Università e Ricerca (Italy) (2002-present), Consiglio Nazionale delle Ricerche (2012-2014);
- Participation to the hazard assessment of the following eruptive events and crises: Campi Flegrei (2016-present), Etna (1991-1993, 2002-2003, 2006-2012, 2016-present), Stromboli (2003, 2016-present), Montserrat (2007-2010), Redoubt (2009), Eyjafjallajökull (2010), Merapi (2010, 2016), Grimsvotn (2011), Santorini (2012).

## Research Topics

AN's scientific career has been split between the development of pure scientific research and its application to real problems, often including issues of major societal impact.

AN main scientific interests and experiences have been focused on the following themes: physics and chemistry of volcanic and magmatic processes; physical volcanology; physical and mathematical modelling of volcano eruption dynamics; modelling and numerical simulation of volcanic and magmatic processes and phenomena; dynamics of volcanic plumes, dispersal of volcanic ash and gasses, dynamics of collapsing columns and pyroclastic density currents, magma ascent in volcanic conduits and dykes, magma chambers evolution, lava flows; multiphase flow systems, particulate flows and transport processes in volcanology and geophysics; numerical modelling and simulation of geological processes; verification and validation of mathematical and physical models by comparisons with laboratory experiments and field geological observations; application of mathematical models to the reconstruction and interpretation of volcanic deposits and observations.

In terms of applied science, AN has significant experience in quantitative assessment of short- and long-term volcanic hazards and risks; assessment of volcanic hazards at Italian (e.g. Campi Flegrei, Vesuvio, Etna, Stromboli) and foreign active volcanoes (e.g. Mt. St. Helens, USA; Soufriere Hills, Montserrat; Mt. Pinatubo, Philippines; Mt. Redoubt, USA; La Soufriere of Guadeloupe, French Antilles; Eyjafjallajökull and Grimsvotn, Iceland; Merapi, Indonesia; Santorini, Greece); identification and quantification of aleatoric and epistemic uncertainties in volcanological and geophysical systems; relationships between science and decision-making in the assessment of natural risks; participation to national and international volcanic crises and emergencies and scientific committees; contribution to communication, outreach and dissemination activities.

## Publications

According to the records of the **Web of Science - ISI Thompson**, AN has published about 100 scientific journal papers obtaining 2,863 citations (based on 80 papers with citation data), an **h-index of 31**, and an average citations per article of 35.8 (updated on June 25, 2020).

According to the record of **Google Scholar**, AN has published about 220 scientific papers, book chapters, proceedings and scientific reports obtaining 4,542 citations and an **h-index of 38** (updated on June 25, 2020).

In addition AN has given about 300 presentations (including about 30 keynote and invited talks) at international and national conferences and workshops (1991-2020).