



## **Simone Barani**

Fixed-term assistant professor

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### ***Education and training***

**2007**

#### **Ph.D. in Geophysics**

Probabilistic Seismic Hazard Analysis (PSHA) Declustering Logic Tree  
Sensitivity and Treatment of Uncertainties

University of Genoa - Genoa - IT

**2003**

#### **Master Degree**

Pericolosità Sismica e Fenomeni di Amplificazione Locale in Toscana il caso  
della Garfagnana - 110/110 e lode

University of Genoa - Genoa - IT

### ***Academic experience***

**2017 - ONGOING**

#### **Researcher**

University of Genoa - Genoa - IT

Lecturer in charge of Seismic Hazard and Risk and 'Dinamica dei Terremoti'

**2007 - 2016**

#### **Research fellow**

University of Genoa - Genoa - IT

Task and research unit coordinator within the framework of the S2-2012 and  
S2-2014 DPC-INGV project Constraining OBServations into Seismic hazard  
(COBAS)

**2004 - 2006**

#### **PhD Student**

University of Genoa - Genoa - IT

### ***Work experience***

**2009 - ONGOING**

#### **CEO and consultant of the spin-off company GEAmb SRL**

GEAmb SRL - Genoa - IT

**2006 - 2008**

## **Consultant for D'Appolonia SpA**

D'Appolonia SpA - Genoa - IT

### ***Language skills***

#### **English**

Independent

### ***Teaching activity***

Currently, I am lecturer in charge of the “Seismic Hazard and Risk” course within the framework of the master degree course (Laurea Magistrale) of “Engineering for Natural Risk Management”, and co-lecturer of “Dinamica dei Terremoti” within the framework of the bachelor degree course (Laurea Triennale) in Geologic Sciences.

In 2009, I was teaching assistant of Prof. Christopher H. Scholz (Columbia University, NY) during the MSc/PhD degree course “The Mechanics of Earthquakes and Faulting”, Rose School – Centre for Post Graduate Training and Research in Earthquake Engineering and Engineering Seismology (Pavia, Italy), April 20 – May 15, 2009.

Moreover, I was supervisor of one bachelor degree thesis and one master degree thesis.

### ***Postgraduate research and teaching activity***

#### **Supervision of PhD students, residents and post-doctoral fellows**

I am currently supervisor of a Ph.D. student of the University of Pisa (Claudia Mascandola).

#### **Postgraduate (PhD) teaching activity**

On March 2018 I was appointed by the DISTAV director (Prof. M. Mariotti) as lecturer of “Elementi di Probabilità e Statistica” within the framework of the “Scienze e Tecnologie per l'Ambiente e il Territorio” (Ciclo XXXII e XXXIII) Ph.D. course.

### ***Research interests***

Major research interests are: Probabilistic Seismic Hazard Analysis, Earthquake Forecasting, Site Effects and Ground Response, Earthquake Dynamics, and Seismotectonics

### ***Grants***

2014 - 2015

**DPC-INGV S2-2014 project Constraining OBServations into**

## **Seismic hazard (COBAS)**

Istituto Nazionale di Geofisica e Vulcanologia - IT  
33.000 euro - Participant

2012 - 2013

## **DPC-INGV S2-2012 project Constraining OBServations into Seismic hazard (COBAS)**

Istituto Nazionale di Geofisica e Vulcanologia - IT  
10.000 euro - Participant

## ***Editorial activity***

I am reviewer for *Bulletin of the Seismological Society of America*, *Tectonophysics*, *Bulletin of Earthquake Engineering*, *Earthquake Spectra*, *Journal of Risk and Uncertainty in Engineering Systems*, *Scientific Research and Essays*, and *Annals of Geophysics*.

## ***Assignments abroad***

In 2016, I received a grant (2.000 €) by the University of Genoa to carry out a one-month research (17 Oct. – 17 Nov. 2016) at the German Research Centre for Geosciences (GFZ), Potsdam. He received the grant within the framework of the D.R. n. 1924 concerning the funding of short research periods in foreign institutes. The research proposal submitted by Dr. Barani concerned the computation of site-specific probabilistic seismic hazard in the Abruzzo region by integration of soil amplification functions determined through the generalized inversion technique.

In 2009, I was teaching assistant of Prof. Christopher H. Scholz (Columbia University, NY) during the international MSc/PhD degree course “The Mechanics of Earthquakes and Faulting”, Rose School – Centre for Post Graduate Training and Research in Earthquake Engineering and Engineering Seismology (Pavia, Italy), April 20 – May 15, 2009.

## ***Other professional activities***

I am the co-founder and managing director of GEAmb S.r.l., a spin-off company born at the University of Genoa (October 2009) from the scientific and professional experience of Dr. Barani and other researchers. Major projects are:

- Analisi delle Condizioni Limite per L’Emergenza (CLE) e definizione dell’Indice di Operatività Strutturale (IOPS) per alcuni Comuni ed edifici strategici del ponente Ligure nell’ambito delle “attività di prevenzione del rischio sismico in applicazione dei disposti dell’OCDPC 171 del 19 giugno 2014” (2017-2018).
- Seismic monitoring of the San Alberto gas field (Po Valley Operations PTY LTD), San Pietro in Casale (Bo) (2016-2018).
- Seismic monitoring of the historical building sited in Ponte dei Mille, Genoa (2016-2018).

Seismic monitoring of structures during the dredging activities in the Genoa

harbor (2012).