



Simone Barani

Ricercatore a tempo determinato

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Istruzione e formazione

2007

PhD in Geophysics

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

University of Genoa - Genova - IT

2003

Master Degree

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

University of Genoa - Genova - IT

Esperienza accademica

2017 - IN CORSO

Researcher

University of Genoa - Genova - IT

2007 - 2016

Research fellow

University of Genoa - Genova - IT

Competenze linguistiche

English

Buono

Attività didattica

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.

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

Attività didattica e di ricerca nell'alta formazione

Supervisione di dottorandi, specializzandi, assegnisti

Currently, I am supervisor of a PhD student of the University of Pisa

Attribuzione di incarichi di insegnamento nell'ambito di dottorati di ricerca accreditati dal Ministero

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.

Interessi di ricerca

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

Progetti di ricerca

2014 - 2015

DPC-INGV S2-2014 project Constraining OBServations into Seismic hazard (COBAS)

Istituto Nazionale di Geofisica e Vulcanologia - IT
33.000 Euro - Partecipante
I was both Task and Research Unit coordinator

2012 - 2013

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

Istituto Nazionale di Geofisica e Vulcanologia - IT
10.000 Euro - Partecipante
I was both Task and Research Unit coordinator

2008 - 2010

Observatoire Européen Environnemental Educatif Programma di cooperazione transfrontaliera Alcotra

Partecipante

2008 - 2009

PRIN project Dinamica del Sistema Costituito dagli Appennini Settentrionali dalla Pianura Padana e dalle Alpi

IT
Partecipante

2007 - 2009

DPC-INGV S3-project ShakeMaps in Italia Nord Occidentale ed aree Interfrontaliere

Partecipante

2004 - 2006

DPC-INGV S1-project Completamento e gestione della mappa di pericolosità sismica prevista dall'Ordinanza PCM 3274 e progettazione di ulteriori sviluppi

Partecipante

2005 - 2006

Interreg Sismoalp Project

Partecipante

Attività editoriale

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*.

Incarichi all'estero

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.

In 2016, I received a grant 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.

Altre attività professionali

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).

From 2006 to 2008, I worked as consultant (seismic hazard expert) of D'Appolonia SpA.