

## PERSONAL INFORMATION

Name GUIDOTTI Roberto  
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Nationality Italian  
Date of birth 25 May 1984



## EDUCATION

- Dates August 2013 - present  
• Organization providing education University of Illinois at Urbana-Champaign (USA), Dept. of Civil and Environmental Engineering  
• Title of qualification **Ph.D. Candidate in Structural Engineering**
- Dates January 2009 - March 2012  
• Organization providing education Politecnico di Milano (Italy), Dept. of Structural Engineering  
• Thesis "Near-field earthquake ground motion rotations and relevance on civil engineering structures"  
• Title of qualification awarded **Ph.D. with merit in Structural, Seismic and Geotechnical Engineering**
- Dates January 2007 - December 2008  
• Organization providing education Alta Scuola Politecnica, Politecnico di Milano and Politecnico di Torino (Italy)  
• Thesis "Energicy: Sustainability design of a micro-scale urban area: the case of Arquata (TO) district"  
• Title of qualification awarded **Diploma "Alta Scuola Politecnica"**
- Dates September 2006 - October 2008  
• Organization providing education Politecnico di Milano (Italy)  
• Thesis "Numerical simulations of the seismic response of an asymmetrical plan structure and its retrofit through R.C. jacketing"  
• Title of qualification awarded **M.S. cum laude in Civil Engineering**
- Dates September 2003 - September 2006  
• Organization providing education Politecnico di Milano (Italy)  
• Thesis "Analysis of the behaviour of the foundations of a structure with prevalent horizontal expansion under cyclic loads"  
• Title of qualification awarded **B.S. cum laude in Civil Engineering**

## WORK EXPERIENCE

- Dates January 2012 – July 2013  
• Name and address of employer Politecnico di Milano, Dept. of Structural Engineering, P.zza L. da Vinci 32, 20133, Milan (Italy)  
• Occupation or position held **Post-Doctoral Research Assistant**  
• Main activities and responsibilities Research projects :
  - i) Evaluations of seismic ground motion variability at soft sites by 3D-1D propagation models, including Christchurch and selected sites in the Po Plain;
  - ii) Adopting physical modeling as a strategy for scenario footprint development, mainly for the modeling of the hazard and risk from extreme events;
  - iii) Study and evaluation of the currently adopted seismic analysis and verification procedure and development of a methodology for the seismic design of gas pipelines.

## TEACHING EXPERIENCE

Spring 2013 Teaching Assistant (TA) in Structural Design, Politecnico di Milano, Milan (Italy), Department of Structural Engineering

Fall 14 CEE595 Teaching Assistant (TA) in Structural Engr Seminar (CEE595), University of Illinois at Urbana-Champaign (USA), Dept. of Civil and Environmental Engineering

Spring 15 CEE491 Teaching Assistant (TA) in Decision and Risk Analysis (CEE491), University of Illinois at Urbana-Champaign (USA), Dept. of Civil and Environmental Engineering

## MAIN SCIENTIFIC PUBLICATIONS

Mazzieri, I., Stupazzini, M., Guidotti R. and Smerzini C. (2013). "SPEED: SPectral Elements in elastodynamics with discontinuous Galerkin: a non-conforming approach for 3D multi-scale problems". *International Journal for Numerical Methods in Engineering*, DOI: 10.1002/nme

Castellani A., M. Stupazzini and R. Guidotti (2012). "Free field rotations during earthquakes: Relevance on buildings". *Earthquake Engineering and Structural Dynamics*. Vol. 41, pp. 875-891.

Guidotti R., Stupazzini M., Smerzini C., Paolucci R. and Ramieri P. (2011). "Numerical Study on the Role of Basin Geometry and Kinematic Seismic Source in 3D Ground Motion Simulation of the 22 February 2011 Mw 6.2 Christchurch Earthquake". *Seismological Research Letters*, Volume 82, Number 6, pp. 767-782.

## INVITED VISITING POSITIONS

- Dates
- Name and type of hosting organisation

September 2010 – March 2011

Ludwig Maximilians Universitaet (LMU), Munich (Germany)

Department of Earth and Environmental Sciences, Section Geophysics

## HONOR AND AWARDS

- Date
- Title of Honor or Awards
- Date
- Title of Honor or Awards

May 2013

Recipient of the 'Loreta and Silvio Corsetti Memorial Scholarship' at University of Illinois at Urbana-Champaign (USA), Dept. of Civil and Environmental Engineering

April 2008

Best graduated student for the year 2005-2006 in Civil Engineering at Politecnico di Milano

## PERSONAL SKILLS AND COMPETENCES

### MOTHER TONGUE

**ITALIAN**

### OTHER LANGUAGES

**ENGLISH**

- Reading skills
- Writing skills
- Verbal skills
- Certificate

ADVANCED (C1)  
ADVANCED (C1)  
ADVANCED (C1)  
TOEFL iBT 106/120 (12/04/2013)

**GERMAN**

- Reading skills
- Writing skills
- Verbal skills

BASIC (A2)  
BASIC (A2)  
BASIC (A2)

### TECHNICAL SKILLS AND COMPETENCES

MS Office (Word, Excel, Power Point, Access), LaTeX.  
Matlab, MathCad, AutoCAD, Rhinoceros, Cubit, GID, SAP2000.  
ArcGIS (basic) OpenSees (basic), Fortran (basic).

### OTHER INTERESTS

Sport (soccer, basketball, racquetball, cycling, running, swimming) and travelling