

PERSONAL INFORMATION ANDREA MARIA AMATI

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Birth Date & Nationality 05/11/1987, Italian

WORK EXPERIENCE

March 2016 to present

Catastrophe Risk Analyst**RED – Risk Engineering + Design – Pavia, Italy**

- involved in the development of an Excess Rainfall (XSR) Loss Model for Central America and the Caribbean and of a related near-real time XSR parametric insurance product for CCRIF - Caribbean Catastrophe Risk Insurance Facility, especially for the definition of the vulnerability module, developed considering the archive of historical rainfall-induced regional losses for the countries involved in the project.
 - involved in the real time monitoring of Earthquake, Tropical Cyclones and Extreme Rainfall events and in RED's tasks as Risk Management Specialist for CCRIF - Caribbean Catastrophe Risk Insurance Facility.
 - involved in the development of a proposal for a flood risk model for Laos, Cambodia and Myanmar for The World Bank group.
 - involved in the World Bank Earthquake Risk Profiles for Sub-Saharan Africa project, in the exposure data processing, in risk computations and final results processing.
- All the tasks have been implemented both independently and as part of a 20-people team.

Sept 2015 - Feb 2016

Risk Engineer Intern**RED – Risk Engineering + Design – Pavia, Italy****Supervisors: Eng. Mario Lloyd Martina - Eng. Mauro Mangini**

Collaboration in the data analysis and quantitative evaluation of hydro-meteorological models for the estimation of rainfall values related to historical events that occurred since 2000 in the Caribbean countries. Comparison of the index losses provided by the two models with reported losses and the modeled rainfall accumulated values with rain gauge data. Development of skill score analysis for quantifying the reliability of the estimates provided by the two models. Development of a research report on the innovative tools of risk transfer such as catastrophe linked securities in relation to the different payout triggers, with the comparison between traditional indemnity based insurance and parametric insurance mechanism, highlighting advantages and disadvantages of both.

May 2013 - Sept 2014

Teaching Assistant in Architectural Composition University courses**Department of Civil Engineering and Architecture (DICAr) – University of Pavia, Italy****Head professor: Eng. Carlo Berizzi**

Courses: Responsible for teaching activities and assistance to classes of 40/60 students during design sessions. Assistance in the different steps of design: context analysis and urban integration check of the legislation and graphical representation.

Tutor in international workshops: Performance of administrative duties, financial management, organisation of travels and accommodation, organisation of training materials, provide assistance to an average of 20/30 students and professors from 4-5 different countries.

Drafting of articles for publications related to topics of courses and workshops.

Jan 2012 - Dec 2013

Part-time librarian

Jan 2009 - Dec 2010

Science and Technology Library, Faculty of Engineering, University of Pavia, Italy

Front-office activities (housing and surveillance, reception, assistance to users and lending) and back-

EDUCATION AND TRAINING

Sept 2014 - May 2016

Risk and Emergency Management II level Master**Understanding and Managing Extremes (UME) graduate School – Eucentre foundation and IUSS – Istituto Universitario di Studi Superiori di Pavia, Italia**

Professional Masters course about assessment, mitigation and management of extreme events (both before and after their occurrence), focus on natural hazard and human, technological and biomedical risks. Language: English - <http://www.umeschool.it/rem/>

Thesis: Indemnity vs Parametric Insurance Model for National Catastrophes

Supervisors: Eng. Mario Lloyd Martina - Eng. Mauro Mangini

EQF Level 8

Nov 2013

Licensed to the Engineer Profession - Civil and Environmental Section**Ordine degli Ingegneri della Provincia di Pavia (Pavia, IT)**

Master degree in Building Engineering and Architecture

Department of Civil Engineering and Architecture (DICAr) – University of Pavia, Italy

Development of tools and skills necessary for different scales architectural design and broader understanding of technological, structural and building issues. Development of expertise in making landscape, territory and urban space assessments. Rebuilding and remodelling of existing buildings, knowledge of construction engineering, seismic design as well as urban planning tools.

Thesis: Reconstruction of the Civic Tower of Pavia as archive and photography research centre - Supervisor: Eng. Carlo Berizzi - Final grade: 108/110

EQF Level 7

Set 2006 - Jul 2007

First year of Economic studies: Notions of business administration, public legislation, management, microeconomics, data analysis and statistics.

PERSONAL SKILLS

Mother tongue
Other languages

Italian
English

Computer skills

- Windows operating systems and Mac OS X (proficient knowledge)
- Use of internet and e-mail on a regular basis. Proficient in Microsoft Office suite (Word, Excel, Power Point, Access) - ECDL Diploma on 18/06/2004 N. PCG350670
- Statistical computation R (good knowledge)
- Geographic Information System: ArcGIS, QGIS (proficient knowledge)
- Technical drawing software: AutoCAD (proficient knowledge),
- Graphic design programs: Photoshop (proficient knowledge), Adobe Illustrator (basic knowledge)
- Structural programs: SAP 2000 (basic knowledge)
- Architectural modelling and rendering programs: Archicad (basic knowledge), Sketch up (basic knowledge), Artlantis (basic knowledge)

ADDITIONAL INFORMATION

Publications

- Plans and masterplans drawings of projects collected in the "Milan Architectural guide" (Italian and English edition) by Carlo Berizzi, DOM publishers 2015
- "Intervention strategies on the existing heritage" in "The use of the existing heritage – Project of reuse of the seaplane base in Pavia by Giuseppe Pagano" by Carlo Berizzi, 2014
- "Metodo e contenuti delle schede analitiche" and "Considerazioni sull'analisi di Pavia" in Gli spazi collettivi della città contemporanea" by Carlo Berizzi, Milano, 2013
- "A new identity" in "Complicity. Progetti per Pavia - Margini Urbani" by Carlo Berizzi, Maggioli Editore, 2012

Workshops

As tutor (University of Pavia):

- International Summer School: Imagining the Ideal City, Architectural and Urban hypothesis on the ancient ideal cities - 22-27 September 2014, Pavia
- International HERCULES workshop: Drawing as communication tool - 13-26 July 2014, Pavia
- Design & Light workshop, Fuorisalone in Pavia – University of Pavia and Natevo (FLOU) - 6 March-16 April 2014, Pavia
- International Rock – IT workshop: Reuse of Cities as a Keynote for Italy - 16 February-1 March 2014, Pavia
- Park(ing) Day 2013 – 21 September 2013, Milan

As student:

- II Workshop for the self building of an earth and straw wall - 06-07 July 2013, Cortile di Carpi (MO), Arch. Mina Bardianni – volunteer activity after 2012 earthquake in Emilia Romagna, Italy
- Azioni Urbane – Ripensare il centro Piacentiniano - Instant workshop/design competition - 24-26 May 2013, Bergamo – University of Pavia, Polytechnic of Milano, University of Bergamo
- Upgrade of a transitional Shelter in Haiti, for IOM organization, May 2011; study of new solutions for implementation of the existing shelter, meeting the needs of the client, and respecting a 500\$ budget
- Instant Workshop Parking Ideas - 17-18 September 2012, Pavia/Milan - University of Pavia and Polytechnic of Milano

Courses

- Training course on Planning Cooperation and Development - Sistema Territoriale Pavese per la Cooperazione Internazionale - Theoretic and practical class on planning methodology, stakeholder analysis, problem tree/solution tree analysis and logical framework, focusing on partnership in developing countries and community network – 17-18-26 April 2015, Pavia, Italy
- Course of Digital Photography, Photo Editing and Image Processing, Città Giardino Photographic Association, Pavia, October - November 2010 and March - April 2011