

PERSONAL INFORMATION

Valentina Cerutti

 Via Alle Quarne 8, 28887 Omegna (VB), Italy

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Sex Female | Date of birth 13/08/1989 | Nationality Italian



WORK EXPERIENCES

October 2013 - December 2013

Traineeship at Nottingham Geospatial Institute

Nottingham Geospatial Building, Triumph Rd, The University of Nottingham, Nottingham NG7 2TU, United Kingdom, +44 115 951 3880

Supervisor: Kristin Mary Stock, 0115 84 68413, kristin.stock@nottingham.ac.uk

Main activities and responsibilities: Preliminary study about the creation of a crowd-sourcing data filter to take crowd-sourced geographical information and create an index of geographical accuracy and semantic reliability with which the information can be annotated; validation of that information with natural language processing tools and statistical methods; assignation of a semantic reliability index and exploration of options for using these data, the index and validation methods to build a hyper-dimensional reality to prevent risks and create damage and risk scenarios for civil protection and urban planning purposes.

Business or sector Scientific research.

January 2011 - February 2011

Traineeship at CIMA Foundation

CIMA Foundation, Via Magliotto 2, 17100 Savona, Italy

Supervisor: Prof. Giorgio Boni, giorgio.boni@cimafoundation.org

Main activities and responsibilities: knowledge and use of ArcGIS and of the OWIS platform, 3D buildings extrusion, element at risk identification, vulnerability studies and damage maps creation.

Business or sector Scientific research.

EDUCATION AND TRAINING

21 March 2014

Master Degree in Environmental and Energy Engineering

University of Genoa (Italy) – Faculty of Engineering

Final result: **110 cum laude / 110**

Master thesis: "Filtering the crowd: EDIT a new methodology for the treatment of non-authoritative data in the reconstruction of risk and damage scenarios".

Supervisors: Prof. L. Ferraris, Eng. S.Traverso, Prof. M. Jackson (NGI), Prof. K. Stock (NGI). In collaboration with CIMA Foundation and Nottingham Geospatial Institute.

2011 - 2013

Master School in Environmental and Energy Engineering

University of Genoa (Italy), Faculty of Engineering.

English classes.

Principal subjects: natural risk management, fluid dynamics, climate change dynamics, combustion processes & emissions control, heat and mass transfer, thermodynamics of multiphase systems, models & methods for environmental & energy systems, sustainable energy and resources (wind, hydro, solar, geothermal, biofuels, waste to energy, fuel cells), power systems control & optimization, wastewater treatment plants, industrial hazards and remediation, environmental impact assessment.

February 2013 - July 2013

Erasmus Programme at Vrije Universiteit of Brussels

Vrije Universiteit of Brussels (Belgium) – Master in Geography - Terrestrial Ecosystems and Environmental Change.

English classes. Principal subjects: Natural Risk Management, Natural Hazards, Surface Water Hydrology, Dynamics and Modelling of Glacial Systems.

2008 - 2011

Italian Degree in Ingegneria dell'ambiente (equivalent to a Bachelor of science in Environmental Engineering)

University of Genoa (Italy) – Faculty of Engineering

Final result: **110/110**

Bachelor Thesis: "Digital Earth Action. Definition of single element functionality response for flood damages evaluation". In collaboration with CIMA Foundation, Savona, Italy. Supervisors: F. Siccardi, S. Traverso, R. Rudari.

2008

Italian High School Diploma: Scientific Certificate

Liceo Scientifico P. Gobetti, Omegna, VB, Italy

Final result: 100/100

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B2	C1	B2	B2	B2
IELTS Certificate. Date: 28/09/2013 - Academic module. Test report form number: 13IT006137CERV010A. Overall band score: 6.0					
Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user					
Common European Framework of Reference for Languages					

Linguistic experience(s)

-Traineeship at Nottingham Geospatial Institute – University of Nottingham UK. Duration: 3 months.

-European Union program - Erasmus Programme

Foreign country: Brussels, Belgium - Language: English – Duration: 6 months - Description: Second semester of the last year of Master at the Vrije Universiteit of Brussels.

Computer skills

Operating systems: Good command of Windows.
Good command of Microsoft Office™ tools.
GIS: good command of ArcGIS 10, QGIS 1.7, 1.8, 1.9, 2.0.
Numerical computing: good command of Matlab, basic command of Python.
Hydrologic processing: basic command of HEC-HMS.
Database: good command of PostgreSQL and Access.
Graphics: basic command of GIMP.

Driving licence

B

ADDITIONAL INFORMATION

- Publications**
- 'Assessment of infrastructure functional damages caused by natural-technological disasters', M. Massabò, E. Trasforini, S. Traverso, R. Rudari, V. Cerutti, S. De Angeli and F. Cecinati. EGU General Assembly 2013, held 7-12 April, 2013 in Vienna, Austria, id. EGU2013-12384
 - 'An augmented reality representation for the assessment of functional damages due to natural and natech disasters', E. Trasforini, S. Traverso, F. Cecinati, V. Cerutti, S. De Angeli, M. Massabò, R. Rudari, proceedings of the VGR conference, Pisa, October 2012.
- Projects**
- Digital Earth Action: Research project led by CIMA Foundation to evaluate the possible use of free GIS and EO sources to build natural disaster event scenarios in developing countries. The project has included an apprenticeship the bachelor thesis project and the M.Sc. thesis project.
- Seminars**
- New Aphrodite-Research seminars to share knowledge: 'The Digital Earth Action: an augmented knowledge of a virtual reality for risk scenarios representation and operational evaluation of damages', Eng. S. Traverso, F. Cecinati, V. Cerutti, S. De Angeli, F. Gardella, January 27, 2012.
- Conferences**
- 13th Plinius Conference - Mediterranean Storms, Savona (Italy), 7-9 September 2011: Presentation of a poster regarding Digital Earth Action.
- Educational experiences**
- FOSS4G – Free and Open Source Software for Geospatial, East Midlands Conference Center, Nottingham, UK., 17-21 September 2013.

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