Europass Curriculum Vitae

Personal information

Surname(s) / First name(s)	**Mason Emanuele**
Address(es)	via F. Abbiati, 2, 20148, Milano
Telephone(s)	0331376632 Mobile: 3468873597
Email(s)	`lordmzn@gmail.com`
Nationality(-ies)	Italian
Date of birth	9 July 1988

Work experience

1 Oct 2015 - 31 Jan 2016	Collaborator in teaching activities
Main tasks and responsibilities	Class of “Modelling and Simulation”: non linear systems in continuous time, stability and canonical responses, control and observability of linear systems. 12 hours of class exercises.
Name and address of employer	Prof. Giorgio Guariso, Politecnico di Milano, piazza Leonardo da Vinci 33, Milano.
1 Mar 2015 - 31 Mag 2015	Collaborator in teaching and laboratory activities
Main tasks and responsibilities	Class of “Analisi dei Sistemi” in italian: linear systems in continuous and discrete time, non linear systems, stability and canonical responses. 8 hours of class exercises and 4 hours of computer laboratory.
Name and address of employer	Prof. Alessandra Gragnani, Politecnico di Milano, piazza Leonardo da Vinci 33, Milano.
1 Oct 2013 - 30 Sep 2014	Research fellow at Politecnico di Milano.
Main tasks and responsibilities	Design of a computing environment of regulation policies and implementation of a prototype for the case of Red-Thai Binh basin in Viet Nam.
Name and address of employer	Politecnico di Milano, piazza Leonardo da Vinci 33, Milano.

Education and training

October 2014 - today	PhD in Information Technology
Principal subjects / occupational skills learned	Management of natural resources, especially water; control theory: control of hybrid systems, sliding mode; machine learning, especially reinforcement learning; multiagent systems; basic game theory and multi criteria decision aiding; epistemology of research in social sciences; experimental methods in engineering.
Name and kind of school	Politecnico di Milano
25 Mag 2014 - 1 Giu 2014	Scuola primaverile in *Multi Criteria Decision Aiding*, Perugia 2014
Principal subjects / occupational skills learned	Aiding the *multi criteria* decision: multi attribute value theory, ELECTRE and PROMETHEE methods, analytical hierarchical process.
Name and kind of school	Università degli studi di Perugia
October 2010 - May 2013	Master of Science (M.Sc) in Environmental and Land Planning Engineering: Natural Resources Planning and Management
Grade	110/110 cum laude

Principal subjects / occupational skills learned	Management of natural resources, numeric modeling of fluvial systems, multi-objective optimization, Environmental impact assessment, land planning and instruments
Name and kind of school	Politecnico di Milano
October 2012 - December 2012	Visiting scholar at Hydroinformatics Research Group - Department of Civil and Environmental Engineering
Principal subjects / occupational skills learned	Autonomous organization of research - identification of problems and opportunities; use of multi objective evolutionary algorithm for optimization of complex mathematical models (MOEAframework and BorgMOEA).
Name and kind of school	Pennsylvania State University, USA
October 2007 - September 2010	Bachelor of Engineering (B. Eng) in Environmental and Land Planning Engineering
Grade	102/110
Principal subjects / occupational skills learned	Core subjects of engineering: mathematics, physics, chemistry, informatics. Insights in economy, building science, geology, geo-technique, hydrology, environmental chemistry.
Name and kind of school	Politecnico di Milano

Publications

Journal

[A1] M. Giuliani, A. Castelletti, F. Pianosi, E. Mason, and P.M. Reed.
Curses, tradeoffs, and scalable management: advancing evolutionary multi-objective direct policy search to improve water reservoir operations.
Journal of Water Resources Planning and Management, 2015

Conference proceedings

[B8] F. Amigoni, A. Castelletti, P. Gazzotti, M. Giuliani, and E. Mason.
Water Resources Systems Operations via Multiagent Negotiation.
In *Proceedings of the 15th International Conference on Autonomous Agents and Multiagent Systems (AAMAS 2016)*, Singapore, 9-13 May 2016

[B7] E. Mason, P. Gazzotti, F. Amigoni, M. Giuliani, and A. Castelletti.
Modelling Tradeoffs Evolution in Multipurpose Water Systems Operation in Response to Extreme Events.
In *2015 AGU Fall Meeting*, San Francisco (California), 14-18 December 2015

[B6] M. Giuliani, A. Castelletti, F. Pianosi, E. Mason, and P.M. Reed.
Curses, tradeoffs, and scalable management: advancing evolutionary multi-objective direct policy search to improve water reservoir operations.
In *World Environmental & Water Resources Congress (ASCE EWRI 2015)*, Austin (Texas), 17-21 May 2015

[B5] M. Giuliani, D. Anghileri, A. Castelletti, E. Mason, M. Micotti, R. Soncini-Sessa, and E. Weber.
Integrated and Sustainable Water Management of Red–Thai Binh Rivers System Under Change.
In *2014 AGU Fall Meeting*, San Francisco (California), 15-19 December 2014

[B4] M. Giuliani, E. Mason, A. Castelletti, F. Pianosi, and R. Soncini-Sessa.
Universal approximators for direct policy search in multi-purpose water reservoir management: A comparative analysis.
In *Proceedings of the 19th IFAC World Congress*, Cape Town (South Africa), 24-29 August 2014

[B3] M. Giuliani, E. Mason, A. Castelletti, and F. Pianosi.
Universal approximators for multi-objective direct policy search in water reservoir management problems: a comparative analysis.
In *EGU General Assembly*, Vienna (Austria), 27 April - 2 May 2014

[B2] M. Micotti, F. Pianosi, S. Bizzi, E. Mason, and E. Weber.
Analyzing tradeoffs between hydropower production and hydrological alteration to support water resources planning in large river systems.
In *EGU General Assembly*, Vienna (Austria), 27 April - 2 May 2014

[B1] E. Mason, A. Cominola, A. Castelletti, S. Bizzi, and K. Paik.
A multi-objective optimization framework to model 3d river and landscape evolution processes.
In *EGU General Assembly*, Vienna (Austria), 07 - 12 April 2013

Personal skills

Mother tongue(s) **Italian**

Other languages

Self-assessment
European level(*)

	Understanding		Speaking		Writing
	Listening	Reading	Spoken interaction	Spoken production	
English	C1 Proficient user	C1 Proficient user	B2 Independent user	B2 Independent user	C1 Proficient user
French	B1 Independent user	B1 Independent user	A1 Basic user	A1 Basic user	A1 Basic user

(*) *Common European Framework of Reference (CEF) level*

Communication skills

Reports of work – Partecipation at MODUS workshop at Nizza University, Sophia Antipolis, with a presentation titled “Concepts behind models” , showing the work developed during the course of “Modellistica e Governo del Territorio” (Modelling and land management), January 2012.

Writing of scientific papers – See section *Publications* for the articles.

Organisational / managerial skills

Prioritization, decision making and team management – Part of the secretariat of local branch of Giovani Democratici - the youth branch of the Partito Democratico since June 2013; Additional roles in the main party.

Computer skills

European computer driving license (ECDL) – 2006

Operating systems	Windows; Linux Ubuntu; Mac OS.
Programming languages	C++, Java, Matlab, Bash, basic knowledge of html, css, sql
Personal productivity tools	MS Office, Latex (various editors), Prezi, Adobe Photoshop, GIMP, Inkscape
Other softwares	CMS software: Joomla!, Wordpress; GIS systems: ArcGIS

Driving license

B level driving license.

Personal interests

I’ve been practicing traditional chinese martial arts since 2010, focusing in Shaolin and Tai Chi Yang style. I’m also an Formula 1 fanatic. In my free time, I love mountain hiking and going to rock concerts.

Milan, January 26, 2016,

Autorizzo il trattamento dei dati personali contenuti nel mio curriculum vitae in base art. 13 del D. Lgs. 196/2003 (disponibile presso `http://www.garanteprivacy.it/garante/doc.jsp?ID=1311248`).

Firma:
