



curriculum vitae

PERSONAL INFORMATION

Surname	Gazzotti
Name	Paolo
Address	Via S. Pellico 3, 21100, Varese, ITALY
Telephone	
E-mail	paolo.gazzotti@cmcc.it paolo.gazzotti@polimi.com paolo.gazzotti@gmail.com
Skype/Twitter	@gappix
Nationality	Italian
Date of birth	26 December 1990

Education and training

• Date (from – to)	11/2017 – 09/2021
• Title of qualification	PhD in Management Engineering
• Name and type of organisation providing education and training	Politecnico di Milano
• Duration of the program of study	3 years
• Principal subjects/occupational skills covered	Climate Change, Multiagent Negotiations and International Environmental Agreements, Game Theory, Policy Discovering, Benefit-Cost Analysis
• Date (from – to)	09/2012 – 12/2015
• Title of qualification awarded	Master Degree in Computer Science Engineering
• Name and type of organisation providing education and training	Politecnico di Milano
• Duration of the program of study	2 years
• Principal subjects/occupational skills covered	Multiagent Systems, Artificial Intelligence, Data Mining, Dynamic control, Complex Systems
Final mark obtained	109/110

- Date (from – to) 09/2009 – 07/2012
- Title of qualification awarded Bachelor Degree in Computer Science Engineering
- Name and type of organisation providing education and training Politecnico di Milano
- Duration of the program of study 3 years
- Principal subjects/occupational skills covered Computer science, engineering topics

Final mark obtained 96/110

- Date (from – to) 09/2004 – 07/2009
- Title of qualification awarded High School graduation
- Name and type of organisation providing education and training Liceo Scientifico G.Ferraris
- Duration of the program of study 5 years
- Principal subjects/occupational skills covered Science basics

Final mark obtained 93/100

PhD thesis

Title A multi-agent approach for climate change negotiations

Language English

Supervisor Prof. M. Tavoni

Co-supervisor Prof. A. Castelletti

Thesis Summary The high level of heterogeneity and uncertainty of climate change impacts hampers the proper evaluation of the best policies and mitigation strategies to be implemented by the different nations. Moreover, regional inequality further exacerbates the international negotiation and coordination process on emissions regulation.

This doctoral dissertation first contributes to the advancing of regional calibration in benefit-cost Integrated Assessment Models. It adopts the most recent scientific empirical contributions as sources of heterogeneity of climate change impacts and mitigation costs. Then, it discusses new assessments on optimal mitigation-policy responses, principally focusing on the inequality implications across regions. Last, it formalizes a novel agent-based negotiation framework as a flexible approach to account for the different perceptions and decision forces in international climate negotiations.

Master Graduation thesis

Title Negoziazione in Sistemi Multiagente per l'Identificazione di Politiche di Regolazione di Bacini Idrici

Language Italian

Supervisor Prof. F. Amigoni

Thesis Summary Water reservoir management is a complex multiobjective problem, because of the involvement of many, often conflicting, interests. Among the approaches proposed for modelling and solving the problem, increasing attention has been recently devoted to those based on multiagent systems, in which the stakeholders are represented by different agents. In this thesis, we've defined a cooperative negotiation protocol in order to identify operation policies as agreements between all interests involved and to provide a basin management model. Our approach, based on monotonic concession, keeps agents' preferences and strategies private and guarantees convergence property and Pareto optimal agreements. The proposed model has been applied to a simplified case study and simulated under several conditions, showing adaptivity to water resources systems behaviours and good performance.

Publications and articles

Author(s) and title	Gazzotti, P., Emmerling, J., Marangoni, G., Castelletti A., van der Wijst, K.I., Hof, A., Tavoni, M. (2021) Persistent inequality in economically optimal climate policies.
Language	English
Publication place	Nature Communications 12, 3421
Date of publication	08 June 2021
Author(s) and title	Amigoni F., Castelletti A., Gazzotti P., Giuliani M., Mason E. (2016) Using Multiagent Negotiation to Model Water Resources Systems Operations
Language	English
Publication place	Autonomous Agents and Multiagent Systems: AAMAS 2016 Workshops, Best Papers, Singapore, Singapore, May 9-10, 2016, Revised Selected Papers, pp 51 - 72
Date of publication	24 September 2016
Author(s) and title	Amigoni F., Castelletti A., Gazzotti P., Giuliani M., Mason E. (2016) Water Resources Systems Operations via Multiagent Negotiation: (Extended Abstract).
Language	English
Publication place	Proceedings of the 2016 International Conference on Autonomous Agents & Multiagent Systems (AAMAS '16), pp 1379 -1380
Date of publication	09 May 2016

Awards

04/2016	The paper "Using Multiagent Negotiation to Model Water Resources Systems Operations" has been selected by the IDEAS Organizing Committee and the AAMAS Workshop Chairs for the IDEAS 2016 Best Paper Award.
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Work experience, stages, studies abroad

- Date (from – to)
- Name and address of firm/university
- Type of employment
 - Main activities

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 - Main activities

- Date (from – to)
- Name and address of firm/university
- Type of business or sector
 - Type of employment
- Main activities and responsibilities

02/2019 – Current

RFF-CMCC European Institute on Economics and the Environment
Via Bergognone, 34 Milano (MI) – Italy.

Affiliated scientist

Benefit-cost analysis with Integrated Assessment Models. Agent-based modelling. Evolutionary algorithms application.

11/2019 – 04/2020

PBL Netherlands Environmental Assessment Agency
Bezuidenhoutseweg 30, The Hague (NL).

Guest Researcher

Progressing and finalizing my PhD research, benefiting from local scientists and policy experts.

03/2016 – 10/2017

Reti S.p.a
Via Dante 6, Busto Arsizio (VA), Italy

Business and IT Consultant

Full-time employee

Since the beginning, I've been involved in an internal innovation project aiming at exploring Big Data and Data Science solutions to let the firm acquire new knowledge and skills in this trending topic. I've attended some business conferences and partner events showing some self-implemented prototypes.

I worked on a couple of Business Intelligence (Qlik View data engineering) and basic Machine-Learning projects, in partnership with Microsoft.

I developed also an Android application within a structured team project for an assurance company.

Certifications

Certifications of language knowledge

FCE – Grade B, on 30 April 2012

Personal skills and competences

Acquired in the course of life and career but not necessarily evidenced by formal certificates and diplomas.

Mother tongue

Italian

Other language(s)

- reading
- writing
- speaking

English

Professional

Professional

Professional

Social skills and competences

Living and working with other people, in multicultural environments, in positions where communication is important and

Since 2009 I collaborate with F.O.M. (Fondazione Oratori Milanese, Diocesi di Milano) on preparing and conducting educational activities, residential courses and large events involving hundreds of young people around Milan. Thanks to these experiences, I've progressively acquired solid relational, managing, and communicational abilities. Appraised soft skills like

situations where teamwork is essential (e.g. Culture and sports), etc.

team-working, public speaking, group managing and responsibility-taking, are often essential in those activities.

Moreover, I am constantly directly involved in several other volunteering activities. In particular, I support and contribute to the educational activities targeting teenage people facing the difficult, yet exciting challenges correlated to that age.

I love practising sport, both for recreational and competitive purposes. I had been an archer for eight years, also achieving important and satisfactory -both individual and team- prizes. Then, I started basketball in 2009. I'm still playing it in an amateur local team with a renewed ambition.

Organisational skills and competences

E.g. coordination and management of people, projects and budgets; at work, in voluntary work (e.g. culture and sports) and at home, etc.

In my work and research activities, I use to spend an adequate amount of time in rigorous task-planning, by defining new horizons and discussing promising future steps with colleagues.

In my volunteering activities, I often take managing and team coordination responsibilities. For five years I've been elected as a council member for the local church community and I'm still cooperating with some related activity groups.

From 2014 to 2018 I was the executive manager of the basketball team where I play.

Technical skills and competences

With computers, specific kinds of equipment, machinery, etc.

Programming languages: *C, Java, SQL, Scala, Python, R, GAMS, C#*

Software, Environments, and IDEs: *Hadoop, Spark, Matlab, Unity3D, LaTeX, R-Studio, Azure ML Studio, IntelliJ, Eclipse, Android Studio, Qlik View, Power BI, MS Office*

OS: *Windows, Mac OSX, Linux*

Artistic skills and competences

Music, writing, drawing etc.

I really love music and, after years of mixing private lessons and self-training, I have become quite good at playing the piano and acoustic guitar. Recently I am curiously exploring and practicing new music instruments like the ukulele, cajon, panpipe and electric guitar.

Since childhood, I am fond of astronomy, with occasional amateur sky observations, and hobby modelling, with several in-scale reproductions of complex buildings.

Recently I've been growing a thrilling interest in photography and video making by planning, recording, and editing some short movies. I'm continuously trying to improve my skills and outputs-quality in every activity I get involved in.