Alberto Santini

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Affiliation

ESSEC Business School, France
Department of Information Systems, Decision Sciences and Statistics
Marie Skłodowska-Curie Fellow (MSCA Cofund EUTOPIA-SIF)

Other affiliations

Institute for Advanced Studies, Cergy Paris Université, France
Affiliate Professor

Barcelona School of Management, Spain
Professor

Barcelona Graduate School of Mathematics, Spain
Affiliate professor

Barcelona Graduate School of Economics, Spain
Affiliate professor

RWTH Aachen University Business School, Germany
Lecturer

Past Positions

2017–2021	Universitat Pompeu Fabra, Spain
	Department of Economics and Business
	Tenure-track assistant professor (currently on leave) and "Juan de la Cierva" researcher
2017	RWTH Aachen, Germany
	Deutsche Post Chair for the Optimisation of Distribution Networks
	Postdoctoral Researcher, under Prof. Michael Schneider

Education

2014–16	University of Bologna, Italy
	Ph.D. in Automatic Control and Operational Research
	Supervisors: Silvano Martello, Daniele Vigo
2011–13	University of Copenhagen, Denmark
	M.Sc. in Mathematics, part of the Master of Excellence programme
	Thesis advisors: Stefan Røpke and Louise Kallehague. Mark: 12/12
2008–10	University of Catania, Italy
	B.Sc. in Mathematics
	Thesis advisor: Angelo Bella. Mark: 110/110 summa cum laude
2002–07	Liceo Scientifico "A. Volta", Caltanissetta, Italy
	Scientific Diploma
	Mark: 100/100

Publications Journal papers

2021

1. Christian Blum, Marko Djukanovic, Alberto Santini, Hua Jiang, Chu-Min Li, Felip Manyà, and Günter Raidl (2021). "Solving common longest subsequence problems via a transformation to the maximum clique

problem". In: *Computers & Operations Research* 125. DOI: 10.1016/j.cor.2020.105089

2. Alberto Santini, Michael Schneider, Enrico Bartolini, and Vinicius Greco de Lemos (2021). "The crop growth scheduling problem in vertical farming". In: *European Journal of Operational Research* 294 (1), pp. 377–390. DOI: 10.1016/j.ejor.2021.01.034

3. Alberto Santini (2021). "Optimising the assignment of swabs and reagents for PCR testing during a viral epidemic". In: *Omega* 102. DOI: 10.1016/j.omega.2020.102341

2020   4. Renata Turkeš, Kenneth Sörensen, Lars Magnus Hvattum, Eva Barrena, Hayet Chentli, Leandro Coelho, Iman Dayarian, Axel Grimault, Anders Gullhav, Çağatay Iris, Merve Keskin, Alexander Kiefer, Richard Martin Lusby, Geraldo Regis Mauri, Marcela Monroy-Licht, Sophie Parragh, Juan-Pablo Riquelme-Rodríguez, Alberto Santini, Vínicius Gandra Martins Santos, and Charles Thomas (2020). "Data for a meta-analysis of the adaptive layer in adaptive large neighborhood search". In: *Data in Brief* 33. DOI: 10.1016/j.dib.2020.106568

2019   5. Alberto Santini (2019). "An Adaptive Large Neighbourhood Search algorithm for the Orienteering Problem". In: *Expert Systems with Applications* 123, pp. 154–167. DOI: 10.1016/j.eswa.2018.12.050

6. Denis Cornaz, Fabio Furini, Enrico Malaguti, and Alberto Santini (2019). "A note on selective line-graphs and partition colorings". In: *Operations Research Letters* 47 (6), pp. 565–568. DOI: 10.1016/j.orl.2019.08.005

2018   7. Enrico Malaguti, Silvano Martello, and Alberto Santini (2018). "The Traveling Salesman Problem with Pickups, Deliveries, and Draft Limits". In: *Omega* 74, pp. 50–58. DOI: 10.1016/j.omega.2017.01.005

8. Fabio Furini, Enrico Malaguti, and Alberto Santini (2018). "An Exact Algorithm for the Partition Coloring Problem". In: *Computers & Operations Research* 92, pp. 170–181. DOI: 10.1016/j.cor.2017.12.019

9. Alberto Santini, Stefan Ropke, and Lars Magnus Hvattum (2018). "A comparison of acceptance criteria for the Adaptive Large Neighbourhood Search metaheuristic". In: *Journal of Heuristics* 24 (5), pp. 783–815. DOI: 10.1007/s10732-018-9377-x

2017   10. Alberto Santini, Stefan Ropke, and Christian E.M. Plum (2017). "A branch-and-price approach to the Feeder Network Design Problem". In: *European Journal of Operational Research* 264 (2), pp. 607–622. DOI: 10.1016/j.ejor.2017.06.063

11. Andrea Bettinelli, Alberto Santini, and Daniele Vigo (2017). "A real-time conflict solution algorithm for the Train Rescheduling Problem". In: *Transportation Research Part B: Methodological* 106, pp. 237–265. DOI: 10.1016/j.trb.2017.10.005

2015   12. Alberto Santini, Henrik Alsing Friberg, and Stefan Ropke (2015). "A note on a model for quay crane scheduling with non-crossing constraints". In: *Engineering Optimization* 47.6, pp. 860–865. DOI: 10.1080/0305215X.2014.958731

Publications Submitted papers

2021   13. Alberto Santini, Ana Viana, Xenia Klimentova, and João Pedro Pedroso (2021). "The probabilistic Travelling Salesman Problem with crowdsourcing". In: *Preprint (submitted)*. URL: https://santini.in/files/papers/santini-viana-klimentova-pedroso-2020.pdf

14. Alberto Santini, Michael Schneider, Thibaut Vidal, and Daniele Vigo (2021). "Decomposition strategies for vehicle routing heuristics". In: *Preprint (submitted)*. URL: https://santini.in/files/papers/santini-schneider-vidal-vigo-2021.pdf

15. Michele Monaci, Ciara Pike-Burke, and Alberto Santini (2021). "The time-bomb knapsack problem". In: *Preprint (submitted)*. URL: https://santini.in/files/papers/monaci-pike-burke-santini-2021.pdf

16. Maxence Delorme and Alberto Santini (2021). "Energy efficient automated vertical farms". In: *Preprint (submitted)*. URL: https://santini.in/files/papers/delorme-santini-2021.pdf

Publications In preparation

2021   17. Alberto Santini, Stefan Ropke, and Lars-Magnus Hvattum (2021). "Parallel Adaptive Large Neighbourhood Search". In: *In preparation*

18. Diego Delle Donne, Alberto Santini, and Claudia Archetti (2021). "Sustainable last-mile supply chains integrating scheduled public transport lines". In: *In preparation*

19. Maxence Delorme and Alberto Santini (2021). "Exact, heuristic and machine learning methods for production planning in automated vertical farms". In: *In preparation*

20. Alberto Santini (2021). "The time-dependent hazardous orienteering problem". In: *In preparation*

Technical Reports

2015   21. Valentina Cacchiani, Alberto Santini, and Daniele Vigo (2015). *A study on metaheuristic approaches to the energy-efficient Train Timetabling Problem*. Tech. rep. OR-15-6. DEI, University of Bologna

2014   22. Valentina Cacchiani, Alberto Santini, and Daniele Vigo (2014). *A novel modelling approach to the Train Timetabling Problem*. Tech. rep. OR-14-27. DEI, University of Bologna

Conference Talks

2021   23. Alberto Santini, Michele Monaci, and Ciara Pike-Burke (2020). "The 0–1 Time-bomb Knapsack Problem". In: 30th European Conference on Operational Research (July 11–14, 2020). Athens, Greece

24. Alberto Santini and Maxence Delorme (2021). "Energy efficient automated vertical farms". In: ODS 2021 (Sept. 14–17, 2021). Rome, Italy

2020   25. Alberto Santini and Ana Viana (2020). "Crowdsourcing in last-mile delivery: machine learning and heuristic approaches to the Stochastic TSP with Crowdsourcing". In: 5th Conference of Young Researchers of the Royal Spanish Society of Mathematics and Statistics (Jan. 27–31, 2020). Castelló, Spain

26. Alberto Santini, Ana Viana, Xenia Klimentova, and João Pedro Pedroso (2020). "Machine learning and heuristic approaches to the Probabilistic TSP with Crowdsourcing". In: 4th AIROYoung Workshop (Feb. 5–7, 2020). Bolzano, Italy

2018   27. Alberto Santini and Christian Blum (2018). "Solving a class of longest subsequence problems via maximum cliques". In: ODS 2018 (Sept. 10–13, 2018). Taormina, Italy

28. Alberto Santini (2018). "An ALNS heuristic for the Orienteering Problem". In: 29th European Conference on Operational Research (July 8–11, 2018). Valencia, Spain

29. Alberto Santini (2018). "A hybrid Machine Learning and ALNS approach to the Orienteering Problem". In: EURO/ALIO International Conference on Applied Combinatorial Optimisation (June 25–27, 2018). Bologna, Italy

2017   30. Alberto Santini, Fabio Furini, and Enrico Malaguti (2017). "Exact and heuristic algorithms for the partition colouring problem". In: ODS 2017 (Sept. 4–7, 2017). Sorrento, Italy

2016   31. Alberto Santini, Stefan Ropke, and Lars Magnus Hvattum (2016). "Poster: A comparison of acceptance criteria for the ALNS metaheuristic". In: 46th Annual Conference of the Italian Operational Research Society (Sept. 6–9, 2016). Trieste, Italy

32. Alberto Santini, Stefan Ropke, and Lars Magnus Hvattum (2016). "A comparison of acceptance criteria for the Adaptive Large Neighbourhood Search metaheuristic". In: 28th European Conference on Operational Research (July 3–6, 2016). Poznań, Poland

2015   33. Alberto Santini, Enrico Malaguti, and Silvano Martello (2015). "A maritime version of the Travelling Salesman Problem". In: Odysseus Conference (May 31–June 5, 2015). Ajaccio, France

34. Alberto Santini, Stefan Ropke, and Christian E.M. Plum (2015). "A rich maritime extension of the Vehicle Routing Problem". In: 45th Annual Conference of the Italian Operational Research Society (Sept. 7–10, 2015). Pisa, Italy

2014   35. Alberto Santini, Enrico Malaguti, and Silvano Martello (2014). "The Travelling Salesman Problem with pickup, delivery and draught limits". In: 44th Annual Conference of the Italian Operational Research

Society (Sept. 2–5, 2014). Como, Italy

Awards

2018   **Omega best paper award**
Won the Best Paper Award for a paper published during 2018 in the journal Omega. The paper was "The Traveling Salesman Problem with Pickup, Deliveries, and Draft Limits".

Grants Personal or as P.I., competitive

2021   **Marie Skłodowska-Curie Fellowship**
Within the Marie Skłodowska-Curie Action Cofund (EUTOPIA-SIF), with a project titled "SILD: Sustainable Integrated Last-mile Delivery". Grant to join ESSEC Business School (part of Cergy Paris Université). Academic Supervisor: Claudia Archetti.

2021   **Juan de la Cierva Incorporación**
Two-year grant from the Spanish government, *refused* because incompatible with the Marie Skłodowska-Curie fellowship. Ranked 5th out of 28 participants from all areas of Mathematics, with a score of 90/100.

2021   **BGSE Seed Grant**
To hire a post-doctoral researcher on the topic "Sustainable Last-mile Delivery". Grant awarded by the Barcelona Graduate School of Economics.

2020–21   **Planetary Wellbeing research grant**
PI of a research proposal with Gara Villalba (Universitat Autonoma de Barcelona) and Michael Schneider (RWTH Aachen University), on the optimisation of vertical farming in Barcelona's public schools. Grant awarded by Universitat Pompeu Fabra.

2018–20   **Juan de la Cierva Formación**
Two-year grant from the Spanish government. Ranked 1st out of 49 participants from all areas of Mathematics, with a score of 99/100.

2014–16   **Ph.D. grant by the University of Bologna**
Ranked 1st out of 9 participants, with a score of 92/100.

Grants As part of a group, competitive

2019   **I+D+i 2019 (Retos)**
Part of the group awarded for the project "Optimización logística para el cuidado de la salud en el hogar y los servicios sociales" by the Spanish Ministry of Science.

2016   **PRIN (Research Projects of Relevant National Interest) 2016**
Part of the group awarded for the project "Transportation and Logistics Optimization in the Era of Big and Open Data".

Grants Other

2021   **Visiting Researcher Grant**
Granted by the Research Centre of ESSEC Business School.

2019   **Yerun Mobility Award**
To visit University Paris Dauphine, sponsored by YERUN.

2018–2023   **Association of European Operational Research Societies (EURO)**
Grant to organise the EUROYoung Workshops.

2018   **Erasmus+ Grant**
To visit the University of Bologna, through the SmartTransLog consortium.

2017   **COST STSM Grant**

Short-Term Scientific Mission grant to conduct research at INESC-TEC under COST Action "European Network for Collaboration on Kidney Exchange Programmes".

2016   Association of European Operational Research Societies (EURO)
        Grant to organise the "EURO Young Researchers OR Webinars".

2015   Marco Polo scholarship
        Grant to conduct research abroad.

Teaching Ph.D. level

2020–21   Business Analytics for Operations and Marketing
           Taught in a team. Universitat Pompeu Fabra, first-year course for Ph.D. students (M.Res. in Economics, Finance and Business).

2018–21   Research Seminars
           Taught in a team. Universitat Pompeu Fabra, first-year course for Ph.D. students (M.Res. in Economics, Finance and Business).

Teaching Master's level

2021–22   Deterministic Models and Optimisation
           Taught together with Jessica Rodríguez-Pereira. Barcelona Graduate School in Economics, M.Sc. in Data Science, Data Science Methodology Programme.

2021–22   Practical Data Science for Finance
           Barcelona School of Management, Universitat Pompeu Fabra, M.Sc. in Finance and Banking.

2019–22   Practical Data Science for Management
           Barcelona School of Management, Universitat Pompeu Fabra, M.Sc. in Management.

2019–21   Advanced Machine Learning
           RWTH Business School, M.Sc. in Data Analytics and Decision Science.

2018–19   Data Science Projects
           RWTH Business School, M.Sc. in Data Analytics and Decision Science.

2018–21   Machine Learning
           RWTH Business School, M.Sc. in Data Analytics and Decision Science.

2017   Optimisation methods for Big Data Analytics
           RWTH Aachen, Master's in Management, Business, and Economics.

2014–18   Optimisation Algorithms (teaching assistant)
           Course taught by Paolo Toth.
           University of Bologna, M.Eng. in Computer Engineering.

Teaching Bachelor's level

2021   Applied Machine Learning and Optimisation
        Universitat Pompeu Fabra, elective course for all last-year Bachelor's students of the Department of Economics.

2020   Applied Optimisation Techniques
        Universitat Pompeu Fabra, elective course for all last-year Bachelor's students of the Department of Economics.

2019   Revenue Management and Dynamic Pricing
        Universitat Pompeu Fabra, elective course for all last-year Bachelor's students of the Department of Economics.

2018–21   Operations Management
           Universitat Pompeu Fabra, Bachelor's in International Business Economics.

2018–19   Operations Management

Universitat Pompeu Fabra, Bachelor's in Business Management Administration.

2016–17 Foundations of OR (teaching assistant)
Course taught by Enrico Malaguti and Michele Monaci.
University of Bologna, B.Eng. in Management Engineering.

Academic experience Scientific Organisations

2019–2021 Elected member of the Board of Directors
Member of the board of directors of AIRO, the Italian Operational Research Association.

2018 Founder
Founded EUROYoung, a group of young O.R. scientists from EURO member countries, with the aim of organising training events for early-stage researchers.

2016–18 Coordinator
Coordinator of AIROYoung, the youth chapter of the Italian Operational Research Association. During my tenure as coordinator, I organised two workshops securing funding from Italian and European institutions; I created a database of young talents in O.R. and of open positions, helping matching O.R. scientists with relevant opportunities; I helped enroll new young members into AIRO, from Italy and other European countries.

2016 Founder
Founder of AIROYoung, the youth chapter of the Italian Operational Research Association.

Academic experience Organisation of Seminars, Workshops, and Courses

2022 Member of the Organising Committee
The 2nd EUROYoung Workshop. Porto, Portugal, 25–26 June 2022.

2019 Organiser of a PhD and Postdoc course
Organised a course for PhD and Postdocs of the Barcelona Graduate School of Mathematics, titled "An Introduction to Equilibrium Problems and their applications". The course is taught by Mauro Passacantando.

2019 Member of the Organising Committee
The 1st EUROYoung Workshop. Invited speakers: Ana Viana and Federico Perea. Seville, Spain, 2–3 May 2019.

2019 Member of the Organising Committee
The 3rd AIROYoung Workshop and 1st AIROYoung PhD School. Invited speakers: Teodor Crainic and Endre Boros. Rome, Italy, 26–29 Mar 2019.

2018–19 Coordinator of the "Operations and Marketing" seminar series
This is a series of weekly seminars at the Department of Economics and Business of Universitat Pompeu Fabra, with invited speakers from all over the world.

2018 Member of the Organising Committee
The 2nd AIROYoung Workshop, on the theme "Logistics optimisation and applied operational research". Invited speakers: Geir Hasle and Roberto Roberti. Cosenza, Italy, 03–05 Mar 2018.

2017 Workshop Organiser
Organised, together with Lavinia Amorosi, the 1st AIROYoung Workshop, on the theme "Emerging Optimization Problems on Complex Networks". Invited speakers: Justo Puerto and Maria Grazia Scutellà. Rome, Italy, 16–17 Feb 2017.

2016 EURO Young Researchers OR Webinars Organiser
Organised a series of OR webinars by and for young researchers from all over the world, sponsored by EURO.

2015 Seminars Organiser
Organised of a series of doctoral seminars within the Operational Research group at DEI, University of Bologna, involving local and visiting researchers.

Academic experience Conferences

2021   Member of the Programme Committee (ECON track)
GECCO2021, the The Genetic and Evolutionary Computation Conference. Lille, France.

2020   Member of the Programme Committee
ODS2020, Optimisation and Decision Science 2020 with theme "Optimisation in Artificial Intelligence and Data Science". Rome, Italy.

2020   Member of the Programme Committee (ECON track)
GECCO2020, the The Genetic and Evolutionary Computation Conference. Cancun, Mexico.

2019   Member of the Programme Committee (ECON track)
GECCO2019, the The Genetic and Evolutionary Computation Conference. Prague, Czech Republic.

2019   Member of the Programme Committee
HM2019, the 11th International Workshop on Hybrid Metaheuristics. Concepción, Chile.

2018   Member of the Organising Committee and Session Chair
ODS 2018, Optimisation and Decision Science Conference. Chair of the "AIROYoung" session. Taormina, Italy.

2018   Session Chair
"EURO Young" session at the EURO 2018 Conference. Valencia, Spain.

2018   Session Chair
"AIROYoung" session at the EURO/ALIO 2018 Conference. Bologna, Italy.

2017   Session Chair
"AIROYoung" session at the ODS 2017, Optimisation and Decision Science Conference. Sorrento, Italy.

2016   Poster Session Chair
"Young OR Researchers Poster Session" at the AIRO 2016 Conference. Trieste, Italy.

2016   Session Chair
"Methodological advancements in metaheuristics" session at the EURO 2016 Conference. Poznan, Poland.

2015   Session Chair
"Exact Methods for Routing Problems" at the AIRO 2015 Conference. Pisa, Italy.

Academic experience Evaluation Committees

2020   Member of PhD defence committees
At several institutions in Europe.

2018   Grant proposal evaluator
"FONDECYT Initiation into Research" programme, Chilean National Science and Technology Commission.

2018–20   Member of the permanent M.Sc. thesis defence committee
Master's in Statistics and Operational Research, Polytechnic University of Catalunya, Spain.
Master's in Management, Barcelona School of Management, Spain.

Academic experience Visiting Positions

2018   University of Bologna, Italy
Visiting Paolo Toth and Daniele Vigo under an Erasmus+ grant from the SmartTransLog consortium.

2017   INSEC-TEC, Portugal
Visiting as part of a Short-Term Scientific Mission for COST Action "European Network for Collaboration on Kidney Exchange Programmes". Working with Ana Viana, João Pedro Pedroso, and Xenia Klimentova.

2016   Amazon Inc.
Visiting Research Scientist in Seattle, USA. Working with Mauricio Resende and Andrew Goldberg.

2016	Vrije Universiteit Amsterdam
	Visiting Ph.D. Student at the Department of Information, Logistics and Innovation. Working with Wout Dullaert.
2015	University of Calabria
	Visiting Ph.D. Student at the Department of Mechanical, Energy and Management Engineering. Working with Demetrio Laganà.
2015	Danish Technical University (DTU)
	Visiting Ph.D. Student at the Department of Management Engineering. Working with Stefan Røpke.

Invited talks

2021	"The importance of networking in career development"
	Invited to the WISDOM round table within the EURO 2021 conference.
2019	"Crowdsourcing in last-mile delivery: machine learning and heuristic approaches to the Stochastic TSP with Crowdsourcing."
	Invited to present at the seminar series of LAMSADE, University Paris Dauphine.
2016	"A real-time conflict resolution algorithm for the train rescheduling problem."
	Invited to present at: Vrije Universiteit, Amsterdam (Feb 2016); Danish Technical University (DTU), Kongens Lyngby (Oct 2016); DSB Training Centre, Nyborg (Oct 2016).
2015	"TSP with pickups, deliveries, and draught limits."
	University of Bologna. Part of a series of seminars held by Ph.D. students and young researchers.
2014	"Recent trends in Operational Research and practical business applications."
	American University of Armenia; series of two seminars at the College of Science and Engineering.
2014	"Data Enevelopment Analysis and OR applications in measuring efficiency."
	University of Bologna. Part of the course "Resource Optimization", M.Eng. in Management Engineering.

Supervised theses

2021	Master's Thesis, M.Sc. in Management, Barcelona School of Management, Universitat Pompeu Fabra
	Supervisor, "Micro-economic insights for realistic pricing in the Vehicle Routing Problem with Occasional Drivers", Helena Bonnin.
2020	Master's Thesis, M.Res. in Economics, School of Economics and Business, Universitat Pompeu Fabra
	Co-supervisor, "Imitation, Principal Component Analysis, and the Effects of Modifications to eSports on Competitive Balance", Karim Carroum.
	Master's Thesis, M.Sc. in Management, Barcelona School of Management, Universitat Pompeu Fabra
	Supervisor, "A simulation study of integrated real-time data resulting in a dynamic pricing model for crowdsourcing-to-customer last-mile deliveries", Otis van der Meij.
	Project, M.Sc. in Data Analytics and Decision Science, RWTH Business School
	Supervisor, "COVID-19 Pandemic: Comparison of forecasting methodologies and affecting factors for fatalities and transmission rates", Peter Yacoub.
	Project, M.Sc. in Data Analytics and Decision Science, RWTH Business School
	Supervisor, "Machine learning for selective assembly with automatic adaption to use-case complexity", Sourabh Hujare.
	Bachelor's Thesis, School of Economics and Business, Universitat Pompeu Fabra
	Supervisor, "Congestion tax as the optimal policy tool to minimize congestion in the city of Barcelona", Joel Sanginés-Uriarte Dooly and Adrià Trepat i Izquierdo.
	Bachelor's Thesis, School of Economics and Business, Universitat Pompeu Fabra
	Supervisor, "Machine Learning for Price Discrimination", Jan Czernek.
2019	Erasmus+ Internship, incoming from the University of Twente

Supervisor, "Production planning and optimisation of vertical farms", Vinicius Greco de Lemos.

Master's Thesis, M.Sc. in Management, Barcelona School of Management, Universitat Pompeu Fabra
Supervisor, "Demand forecasting model in food delivery, a heuristic approach to data science using Python and geoanalysis", Marc Herrera.

2017	Project, M.Sc. in Management, Business, and Economics, RWTH Aachen
	Supervisor, "Improving document-level machine translation with `word2vec`", Sean Eulenberg.
	Master's Thesis, M.Sc. in Management, Business, and Economics, RWTH Aachen
	Co-supervisor, "A heuristic algorithm for the electric pickup and delivery problem", Lutz Venhofen.
2016	Master's Thesis, M.Eng. in Management Engineering, University of Bologna
	Co-supervisor, "Embedding robustness in train rescheduling algorithms", Alessandro Morandi.
	Project, M.Eng. in Computer Engineering, University of Bologna
	Co-supervisor, "A genetic algorithm for real-time energy optimisation of train timetables", Francesco Di Lella.
2015	Master's Thesis, M.Eng. in Management Engineering, University of Bologna
	Co-supervisor, "Metaheuristic algorithms for energy optimisation in train timetabling and rescheduling", Hang Xu.
	Project, M.Eng. in Computer Engineering, University of Bologna
	Co-supervisor, "A constructive heuristic for the dispatching problem on multi-track territories", Giacomo Dall'Olio and Simone Laierno.
2014	Master's Thesis, M.Eng. in Management Engineering, University of Bologna
	Co-supervisor, "Valutazione della Performance di un caso di Customer Contact Desk attraverso l'applicazione della metodologia Data Envelopment Analysis", Martina Carli.

Work experience

2016	Amazon
	Research Scientist Intern. Seattle, USA.
2012–13	Procter & Gamble
	Strategic Sourcing Intern. Bruxelles, Belgium.
2012	WISON Offshore & Marine
	Procurement Trainee. Shanghai, China.
2011–12	Amiiko
	Ruby on Rails Developer. Copenhagen, Denmark.

Other

Languages	Italian: mothertongue; English: fluent; French: very good; Spanish: very good; Catalan: very good; Armenian: constantly improving!
Volunteering	Spanish Red Cross; Italian Red Cross; Danish Red Cross; Big Brother / Big Sister Project Kongelunden, Copenhagen, Denmark; Associació per la Promoció del Transport Public, Barcelona, Spain.
Certifications	Chartered shipbroker according to Italian law (2012).