


PERSONAL INFORMATION **Rossana Riccardi**

 Department of Economics and Management, Contrada S. Chiara 50, 25121
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 rossana.riccardi@unibs.it

 <https://www.unibs.it/ugov/person/7876>

Gender Female,

Married, 2 children. Maternity Leave: December 2013- August 2014

| **Date of birth** 3 July 1977 | **Nationality** Italian

WORK EXPERIENCE

June 2018–Present **Associate Professor of Applied Mathematics**

Department of Economics and Management,
Università degli Studi di Brescia(Italy).

October 2011– May 2018 **Assistant Professor**

Department of Economics and Management,
Università degli Studi di Brescia(Italy).

Sept 2010– Sept 2011 **Research Assistant**

Department of Quantitative Methods, Faculty of Economics
Università degli Studi di Brescia(Italy).

Project: “Sistema produttivo lombardo: crescita, innovazione e politiche ambientali”

Aug 2007– Aug 2011 **Research Assistant**

Department of Statistics and Applied Mathematics
Università di Pisa (Italy)

Project: “Modelli e strumenti matematici di ottimizzazione per i problemi logistici”

EDUCATION AND TRAINING

2002–2006 **PhD in Mathematics for Economic Decisions - Thesis Title: “Optimal fleet size and scheduling: some theoretical results and a real application”**

University of Pisa, Italy

2006–2008 **Master degree in Statistics for economics and business**

University of Pisa, Italy
Mark 10/110 with honour

2005 **Master post lauream in Logistics and Communications**

Business and Administration
Università Cattolica del Sacro Cuore, Milan, Italy.

1999–2001 **Master degree in Economics and Business Administration**

University of Pisa, Italy
Mark 10/110 with honour

AWARDS AND FELLOWSHIP

- 2018 **National Scientific Qualification** as Full Professor in the Academic Discipline 13/D4 (Applied Mathematics).
- 2017 **Research grant** Finanziamento delle attività base di ricerca. Score: 41; Minimum score to obtain the grant: Assistant Professor 13; Associate Professor 37.
- 2010–2011 **Research fellowship** Regione Lombardia. Advisor: Prof. Elisabetta ALLEVI
- 2007–2010 **Research fellowship** Department of Statistics and Applied Mathematics, Faculty of Economics, University of Pisa. Advisor: Prof. Riccardo CAMBINI
- 2002–2004 **Full scholarship** University and Research for the doctoral studies, Italian Ministry of Education, Italy

PARTICIPATION TO NATIONAL AND INTERNATIONAL RESEARCH PROJECTS

- 2016–2018 **Member** for the research team of the Department of Economics and Management of the University of Brescia of the project **Health&Wealth: “Brescia 20-20-20”**
Involved Departments: Mechanical and Industrial Engineering, Information Engineering, Department of Economics and Management, University of Brescia, Italy.
Project leader: Prof. G. Beretta.
Project mainly financed by the University of Brescia, Italy.
- 2010–2011 **Member** of the project: **Sistema produttivo lombardo: crescita, innovazione e politiche ambientali**
University of Brescia, Italy. Research fellowship granted by Lombardy Region.
Project leader: Prof. E. Allevi.
Project financed by Lombardy Region. Italy.
- 2009–2010 **Responsible** of the project: **Strumenti di valutazione del rischio operativo e finanziario specifici per il mercato elettrico**
with A2A SpA, Milano and Department of Statistics and Mathematics applied to Economic Decisions, University of Pisa.
Project leader: Rossana Riccardi
- 2007-2009 **Member** of the project: **Generalized monotonicity: models and applications** PRIN 2006

University of Brescia, Italy
Project leader: Prof. E. Allevi.
Project financed by MIUR
- 2018-2020 **Local Investigator** of the project: **PM4WATER: Performance and Management for water** Water JPI 2018

University of Brescia, Italy
Project leader: Prof. Giulia Romano.

Project passed the first phase

PUBLICATIONS IN
INTERNATIONAL JOURNALS
AND VOLUMES WITH
PEER-REVIEW PROCESS

VQR score 2011-2015: 2 (maximum score)

Orcid ID <https://orcid.org/0000-0002-1038-180X>

Scopus Author ID: 25229358600; ResearcherID: E-5930-2018

- 2020 Pouralizadeh M., Amirtaimoori A., Riccardi R., Vaez-Ghasemi M. (2020). *Supply chain performance evaluation in the presence of undesirable products: A case on power industry* **AIMS Energy** 10.3934/energy.2020.1.48.
- 2020 Allevi E., Martinez-Legaz J.E., Riccardi R. (2019). *Optimality conditions for convex problems on intersections of non necessarily convex sets.* **Journal of Global Optimization, Vol. 77, pp. 143-155.(Fascia A)**
- 2019 Allevi E., A. Basso, F. Bonenti, G. Oggioni, R. Riccardi (2019). *Measuring the environmental performance of Green SRI funds: a DEA approach.* **Energy Economics, Vol. 79, pp. 32-44. (Fascia A)**
- 2018 Bonenti F., Martinez-Legaz J.E., Riccardi R. (2018). *A General Nonconvex Multiduality Principle.* **Journal of Optimization Theory and Applications, vol. 176(3), pp. 527-540. (Fascia A)**
- 2018 Allevi E., Aussel D., Riccardi R. (2018). *On a equilibrium problem with complementarity constraints formulation of pay-as-clear electricity market with demand elasticity.* **Journal of Global Optimization, vol. 70(2), pp. 329-346, (Fascia A)**
- 2017 Allevi E., A.J. Conejo, G. Oggioni, R. Riccardi, C. Ruiz (2017). *Evaluating the strategic behaviour of cement producers: an Equilibrium Problem with Equilibrium Constraints.* **European Journal of Operational Research, (Fascia A)**
- 2017 Allevi E., G. Oggioni, R. Riccardi, M. Rocco (2017). *An equilibrium model for the cement sector: EU-ETS analysis with power contracts.* **Annals of Operations Research, vol. 255, pp. 63-93. ISSN: 1572-9338. (Fascia A)**
- 2017 Allevi E., G. Oggioni, R. Riccardi, M. Rocco (2017). *Evaluating the carbon leakage effect on cement sector under different climate policies.* **Journal of Cleaner Production, vol. 263, pp. 320-337 ISSN: 0959-6526.(Fascia A)**
- 2015 Riccardi R., Bonenti F., Allevi E., Avanzi C., Gnudi A.(2015). *The steel industry: a mathematical model under environmental regulations* **European Journal of Operational Research vol. 242(3) pp. 1017–1027. ISSN: 0377-2217 (Fascia A)**
- 2015 Allevi E., G. Oggioni, R. Riccardi, M. Rocco (2015). *Spatial equilibrium problems: the carbon leakage effect on cement sector under different environmental policies.* **Journal of Information and Optimization Sciences, vol. 36(1&2), pp. 1-21. ISSN: 0252-2667**
- 2012 Riccardi, R., G. Oggioni, R. Toninelli (2012). *Efficiency analysis of world cement industry in presence of undesirable output: Application of data envelopment analysis and directional distance function.* **Energy Policy, vol. 44, pp. 140-152. ISSN: 0301-4215. (Fascia A)**

- 2012 Allevi E., G. Oggioni, R. Riccardi, M. Rocco (2012). *A spatial competitive analysis: the carbon leakage effect on the cement industry under the European Emissions Trading Scheme* **Temi di discussione - Servizio Studi della Banca d'Italia** n. 390, ISSN 1594-7939.
- 2011 Oggioni G., R. Riccardi, R. Toninelli (2011). *Eco-efficiency of the world cement industry: A data envelopment analysis*. **Energy Policy**, vol. 39(5), pp. 2842-2854. ISSN: 0301-4215. (Fascia A)
- 2011 Oggioni G., R. Riccardi, R. Toninelli (2011). *The cement industry: Eco-efficiency country comparison using data envelopment analysis*. **Journal of Statistics & Management Systems**, vol. 14(6), pp. 1067–1102. ISSN: 0972-0510.
- 2011 R. Riccardi, R. Toninelli (2011). *Data Envelopment Analysis with outputs uncertainty*. **Journal of Information & Optimization Sciences**, vol. 32(6), pp. 1289–1314.
- 2009 Cambini R., Riccardi R. (2009). *Theoretical and algorithmic results for a class of hierarchical fleet mix problems* **European Journal of Operational Research** vol.198(3), pp.741–747. ISSN: 0377-2217 (Fascia A)
- 2009 Cambini R., Riccardi R. (2009). *On discrete quasiconvexity concepts for single variable scalar functions* **Taiwanese Journal of Mathematics** vol.13(2B), pp.837–853. ISSN: 1027-5487
- 2009 Riccardi R. (2009). *A stochastic approach for Hierarchical Fleet Mix Problems* **Recent Developments on Mathematical Programming and Applications** (Laura Carosi, Laura Martein, eds) Aracne editrice s.r.l., ISBN/ISSN: 978-88-548-2654-0.
- 2007 Cambini R., Riccardi R. (2007). *An approach to discrete convexity and its use in an optimal fleet mix problem* **Generalized Convexity and Related Topics** I.V. Konnov, D.T. Luc, A.M. Rubinov (Eds.), Lecture Notes in Economics and Mathematical Systems, vol. 583, ISBN 3-540-37006-4, Springer, Berlin, pp.133-148.
- 2007 Riccardi R. (2007). *A computational experience for a scheduling and routing planning problem* **Nonlinear Analysis with Applications in Economics, Energy and Transportation** E. Allevi, M. Bertocchi, A. Gnudi, I. V. Konnov (Eds.), Bergamo University Press, Bergamo, ISBN 978-88-95184-22-7.

VOLUMES

- 2017 E. Allevi, G. Bosi, Riccardi R., Magalì E. Zuanon. (2017). *Matematica finanziaria e attuariale*, Pearson Italia, Milano, Torino.
- 2012 E. Allevi, G. Bosi, Riccardi R., Magalì E. Zuanon. (2012). *Matematica finanziaria e attuariale*, Pearson Italia, Milano, Torino.

OTHER PUBLICATIONS

- 2015 Allevi E., G. Oggioni, R. Riccardi, M. Rocco (2015). *The carbon leakage effect on the cement sector under different climate policies*. **Optimization Online**. Available at http://www.optimization-online.org/DB_FILE/2015/02/4774.pdf
- 2011 Oggioni G., R. Riccardi, R. Toninelli (2011). *Evaluating the efficiency of the cement sector in presence of undesirable output: a world based Data Envelopment Analysis*. **Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa**, n. 344.

- 2010 Oggioni G., R. Riccardi, R. Toninelli (2010). *Eco-efficiency of the world cement industry: A Data Envelopment Analysis*. **Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa**, n. 341.
- 2010 R. Riccardi (2010). *Hierarchical Fleet Mix Problems with risk-aversion: a CVaR approach* **Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa**, n. 336.
- 2010 Oggioni G., R. Riccardi, R. Toninelli (2010). *The cement industry: eco-efficiency country comparison using Data Envelopment Analysis* **Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa**, n. 333.
- 2010 R. Riccardi, R. Toninelli (2010). *Data Envelopment Analysis with outputs uncertainty* **Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa**, n. 329.
- 2008 Cambini, R., Riccardi (2008). *On discrete quasiconvexity concepts for single variable scalar functions* **Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa**, n. 305.
- 2007 Cambini, R., Riccardi (2007). *Theoretical and algorithmic results for a class of hierarchical fleet mix problems* **Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa**, n. 300.
- 2005 Cambini, R., Riccardi (2005). *An approach to discrete convexity and its use in an optimal fleet mix problems* **Rapporti di Ricerca del Dipartimento Statistica e Matematica Applicata all'Economia, Università di Pisa**, n. 273.
- 2001 Bonaccorsi A., Cambini R., Giuri P. and R. Riccardi(2001). *Non ergodic properties of the dynamics of industry concentration* **LEM Working Paper 2001/12, Laboratory of Economics and Management, Sant'Anna School of Advanced Studies**.

PARTICIPATION TO EDITORIAL BOARD

- Guest Editor
- Special Issue on “Performance measurement and efficiency analysis - theory and practice”
Journal: *Decisions in Economics and Finance* edited by Springer.
Guest editors: Ana Camanho, Laura Carosi, Giovanna d’Inverno, Kristof De Witte, Rossana Riccardi.
 - Special Issue on “Energy transition and decarbonization”
Journal: *Energy Economics* edited by Elsevier.
Guest editors: Paolo Falbo, Giorgia Oggioni, Rossana Riccardi, Sergio Vergalli.

RESEARCH INTERESTS AND EXPERTISE

- Research
- Mathematics applied to economics and industry; Stochastic programming; Nonlinear Optimization; Data Envelopment Analysis (DEA); Nash and Generalized Nash Equilibrium Problems; Energy Economics; Environmental Regulations; Generalized convexity, convex and nonconvex optimization; Water Management.

**FUNDS RECEIVED FOR
FINANCING CONFERENCES
AND HOSTING FOREIGN
RESEARCHERS**

- Year**
- 2020: Funds received as PI for the organization of the Workshop VAME 2020 at the Department of Economics and Management (5500 euro)
 - 2019: Funds received as PI for the organization of the Workshop FIW3 at the Department of Economics and Management (2400 euro)
 - 2019: Funds received as PI for for inviting Prof. María Molinos Senante, Pontificia Universidad Católica de Chile, Chile
 - 2019: Funds received as PI inviting Prof. Juan Enrique Martinez-Legaz, Universitat Autònoma de Barcelona
 - 2018: Funds received as PI inviting Prof. Didier Aussel, Université du Perpignan
 - 2017: Funds received as PI inviting Prof. Juan Enrique Martinez-Legaz, Universitat Autònoma de Barcelona
 - 2015: Funds received as PI inviting Prof. Didier Aussel, Université du Perpignan
 - 2013: Funds received as PI inviting Prof. Didier Aussel, Université du Perpignan

**ORGANIZATION OF
WORKSHOPS, CONFERENCES
AND CONFERENCE SESSIONS**

- Year**
- 2020: **Chair of the scientific and organising committee** of the International Workshop “VAME 2020 - Variational Analysis and applications for modelling of Energy Exchange” , 21-22 April 2020 Brescia, Italy, postponed to 2021 (<http://vame2020.unibs.it>).
 - 2020: **Member of the organising committee** of the “Eighth IAERE Annual Conference”, Italian Association of Environmental and Resource Economists, 6-7 February 2020, Brescia, Italy. <https://www.iaere.org/conferences/2020/>
 - 2019: **Chair of the scientific and organising committee** of the International Workshop “FIW3 - "First International Workshop on water and waste management - Water and waste management in circular economy: efficiency, innovation and policy implications” , October 10-11 , 2019, Brescia, Italy. fiw3.unibs.it.
 - 2019: **Member of the organising committee** of the Workshop “Investments, Energy, and Green Economy”, 26-27 April, Brescia, Italy. <https://www.unibs.it/sites/default/files/ricerca/allegati/CALL%20JEDC%202019%20%282%29.pdf>
 - 2018: **Member of the organising and scientific committee** of the Workshop “I surgelati nel consumo alimentare fuori casa. Percezione dei consumatori e organizzazione del lavoro”, 12 June, Brescia, Italy.
 - 2018: **Organizer** of the session “Optimization models for social and financial sustainability” in the ODS 2018 conference, Taormina, Italy.
 - 2017: **Organizer** of the session “Green economy, energy and sustainability: models and methods” in the 41st Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), Cagliari, Italy.
 - 2016: **Organizer** of the session “Energy, Environment and Sustainability” in the 40th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), Catania, Italy.
 - 2012: **Member of the organising committee** of the Workshop “First French-Italian Workshop on Energy Markets and Models (FIWEM1)” Department of Economics and Management, University of Brescia, Italy.

ORGANIZATION OF SEMINARS

- Year – 2020: **Organizer** of the Webseminar “Policy evaluation in panel data Stochastic Frontier models: A Regression Discontinuity Approach”, held by Dr. Giovanna D’Inverno, KU Leuven, Belgio on June 26th, 2020 at Department of Economics and Management, University of Brescia, Italy.
- 2019: **Organizer** of the seminar “From Nash games to Bilevel Nash games: what is it and what for?”, held by Prof. Didier Aussel, University of Perpignan, on April 30th, 2019 at Department of Economics and Management, University of Brescia, Italy.
- 2018: **Organizer** of the seminar “Interest rate liberalization in China: impacts on financial stability and performance” held by Prof. Yong Tan, Huddersfield Business School, University of Huddersfield, UK, on December 18th, 2018 at Department of Economics and Management, University of Brescia, Italy.
- 2018: **Organizer** of the seminar “Best Response of Producer in Pay-as-clear Electricity Market with Stochastic Demand” held by Prof. Miroslav Pistek, Czech Academy of Sciences, Czech Republic on October 29th, 2018 at Department of Economics and Management, University of Brescia, Italy.
- 2018: **Organizer** of the seminar “Non-polyhedral extensions of the Frank and Wolfe Theorem” held by Prof. Juan Enrique Martinez-Legaz, Universitat Autònoma de Barcelona, on October 10th, 2018 at Department of Economics and Management, University of Brescia, Italy.
- 2018: **Organizer** of the seminar “DC Programming: optimality, duality and applications” held by Prof. Juan Enrique Martinez-Legaz, Universitat Autònoma de Barcelona, on February 7th, 2018 at Department of Economics and Management, University of Brescia, Italy.
- 2017: **Organizer** of the seminar “Real bid process versus modelled process: an attempt to fill the gap”, held by Prof. Didier Aussel, University of Perpignan, on June 13th, 2017 at Department of Economics and Management, University of Brescia, Italy.
- 2016: **Organizer** of the seminar “Retail Competition with Switching Consumers in Electricity Markets” held by Prof. Carlos Ruiz, Universidad Carlos III de Madrid, on March 10th, 2016 at Department of Economics and Management, University of Brescia, Italy.
- 2016: **Organizer** of the seminar “Nash Equilibrium and Optimal design/management of Industrial Ecoparks” held by Prof. Didier Aussel, University of Perpignan, on February 11th, 2016 at Department of Economics and Management, University of Brescia, Italy.
- 2015: **Organizer** of the seminar “Optimality conditions for pseudoconvex minimization over convex sets defined by tangentially convex constraints” held by Prof. Juan Enrique Martinez-Legaz, Universitat Autònoma de Barcelona, on December 14th, 2015 at Department of Economics and Management, University of Brescia, Italy.
- 2014: **Organizer** of the seminar “Can Variational inequalities provide necessary and sufficient conditions for Generalized Nash equilibrium problem? From counter-example to partial answer.” held by Prof. Didier Aussel, University of Perpignan, on December 17th, 2014 at Department of Economics and Management, University of Brescia, Italy.
- 2014: **Organizer** of the seminar “Evolutionary Variational Inequality Formulation of Generalized Nash Equilibrium Problem” held by Prof. Didier Aussel, University of Perpignan, on December 16th, 2014 at Department of Economics and Management, University of Brescia, Italy.

PARTICIPATION TO
CONFERENCES AND
WORKSHOPS UPON INVITATION
(WITH PRESENTATIONS)

Invited Presentations

- Europt 2019, Glasgow, UK.
Presentation in the organized session: “Variational analysis and Optimization”, June 11-13, 2019.
- EURO 2019, Dublin, Ireland.
Presentation in the organized session: “Optimization models for social and financial sustainability”, June 11-13, 2019 .
- ODS 2018, Taormina, Italy.
Presentation in the organized session: “Optimization models for social and financial sustainability”, September 11-13, 2018 .
- 16th Workshop on Advances in Continuous Optimization (EUROPT 2018), Almeria, Spain, July 11-13, 2018.
- 41st Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), Cagliari, Italy.
Presentation in the organized session: “Green economy, energy and sustainability: models and methods”, September 14-16, 2017.
- Variational Analysis and Applications for Modelling of Energy Exchange, Perpignan, France, May 4-5, 2017.
- 40th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), Catania, Italy.
Presentation in the organized session: “Energy, Environment and Sustainability”, September 15-17, 2016 .
- Salone del risparmio 2016, Milan, Italy, April 7, 2016.
- 13th Workshop on Advances in Continuous Optimization (EUROPT 2015), Edinburgh, UK, July 10-12, 2015.
- Settimana SRI, Università Bocconi, Milan, Italy, November 16, 2015.
- 25th European Conference on Operational Research (EURO 2012), Vilnius, Lithuania.
Presentation in the invited session: “Mathematical methods for decision support in energy and industrial sectors”. Stream: Iterative Methods for Economic Models, July 8-11, 2012.
- Workshop IV “Game Theory in Energy, Resources and Environment”, Montreal, Canada, November 29-30, 2012.
- SIMAI 2012, Politecnico di Torino, Italy.
Presentation in the invited session: “Quasi-variational inequalities, generalized Nash equilibrium problems and applications”, June 25-28, 2012 .
- 42th Annual Conference of the Italian Operations Research Society, (AIRO), “Operational Research in Transportation and Logistics”, University of Brescia, Italy.
Presentation in the invited session: “Modelling European Emission Trading Scheme for energy and industrial sectors”, September 6-9, 2011 .
- 24th European Conference on Operational Research (EURO 2010), Lisbon, Portugal.
Presentation in the invited session: “Optimal policy in the energy markets”. Stream: Energy, Environment and Climate, July 11-14, 2010 .

- Participation with presentation
- 43rd Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), Perugia, Italy, September 9-11, 2019.
 - 42nd Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), Naples, Italy, September 13-15, 2018.
 - IWOBIP'18 International Workshop on Bilevel Programming, Lille, France, June 19-22, 2018.
 - IWA International Conference of Water Association, Livorno, Italy, September 11-13, 2017.
 - Conference “Energy Finance Italia II”, University of Padova, Italy, December 5-6, 2016.
 - 14th Workshop on Advances in Continuous Optimization (EUROPT 2016), Warsaw, Poland, July 1-2, 2016.
 - 39th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), Padova, Italy, September 10-12, 2015.
 - August 28-September 5, 2015 International Workshop on “Variational Analysis and Applications”, Erice, Italy.
 - 37th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), Stresa, Italy, September 5-7, 2013.
 - First French-Italian workshop on energy markets and models (FIWEM'1), University of Brescia, Italy, March 19-20, 2012.
 - 35th Meeting of the Italian Association for Mathematics Applied to Economic and Social Sciences (AMASES), University of Pisa, Italy, September 15-17, 2011.
 - International Conference on Operations Research (OR 2011), ETH and University of Zurich, Zurich, Switzerland, August 30- September 2, 2011.
 - SPS2009 “Stochastic Programming School”, University of Bergamo, Italy, November 23-28, 2009.
 - Workshop “Recent Developments on Mathematical Programming”, University of Pisa, Italy, June 5, 2009.
 - 9th International Symposium on Generalized Convexity and Generalized Monotonicity, National Sun Yat-set University, Kaohsiung, Taiwan, July 21-25, 2008
 - A.M.A.S.E.S. XXXI “”, University of Lecce, Italy, September 3-6, 2007 .
 - INTAS Summer School “Nonlinear Analysis with Applications in Economics, Energy and Transportation”, University of Bergamo, Italy, June 5-9, 2006.
 - GCGM VIII “International conference on Generalized convexity and Monotonicity”, University of Insubria, Varese, Italy, July, 21-25, 2005.

RESEARCH PERIODS ABROAD

- May 2019** Visiting researcher at Universitat Autònoma de Barcelona. **Research collaboration with:** Prof. J.E. Martínez-Legaz. **Research project:** Optimality conditions for convex problems on intersections of non necessarily convex sets.
- May 2018** Visiting researcher at Universitat Autònoma de Barcelona. **Research collaboration with:** Prof. J.E. Martínez-Legaz. **Research project:** Optimality conditions for convex problems on intersections of non necessarily convex sets.
- October 2017** Visiting researcher at Universitat Autònoma de Barcelona. **Research collaboration with:** Prof. J.E. Martínez-Legaz. **Research project:** Optimality conditions for convex problems on intersections of non necessarily convex sets.
- March 2017** Visiting researcher at Universitat Autònoma de Barcelona. **Research collaboration with:** Prof. J.E. Martínez-Legaz. **Research project:** A new existence result for monotone generalized variational inequalities using maximal monotone operators.
- April 2015** Visiting researcher at Universitat Autònoma de Barcelona. **Research collaboration with:** Prof. J.E. Martínez-Legaz. **Research project:** Nonconvex duality, Toland and Singer duality.

MEMBERSHIP TO THE TEACHERS COUNCIL OF DOCTORAL PROGRAMS

- 2017-Present** Member of the Teachers Council of the Ph.D. program on “Analytics for Economics and Management (AEM)” starting from the XXXIII Cycle. University of Brescia, Italy.

2013-Present **Member** of the Teachers Council of the Ph.D. program on “Analytics for Economics and Business (AEB)” for the XXIX, XXX, XXXI, and XXXII Cycles. University of Bergamo and University of Brescia, Italy.

2008-2011 **Member** of the Teachers Council of the Ph.D. program on “Mathematics for Economic Decisions” for the XXIV, XXV, XXVI Cycles. University of Pisa, Italy.

TEACHING EXPERIENCES (COURSES AND SEMINARS FOR DOCTORAL STUDENTS)

2017-Present **Professor** in Analytical Methods for Economics and Finance (14 hours) XXXIII Cycle of the Ph.D. program on “Analytics for Economics and Management”, University of Brescia (Italy).

2017-Present **Professor** in Advanced Mathematics for Economics and Finance (10 hours) XXXIII Cycle of the Ph.D. program on “Analytics for Economics and Management”, University of Brescia (Italy).

2017-18 **Professor** in Convex Analysis and Optimization (12 hours) XXXII Cycle of the Ph.D. program on “Analytics for Economics and Business”, University of Bergamo and University of Brescia (Italy).

2014-15 **Seminar** in Data Envelopment Analysis: model overview and applications (3 hours) XXX Cycle of the Ph.D. program on “Analytics for Economics and Business”, University of Bergamo and University of Brescia (Italy).

TEACHING EXPERIENCES ABROAD

2017-18 Teaching activities in the framework of the Global Responsibility Week organized by the Nottingham Business School, Nottingham Trent University, UK. Teaching load 6 hours.

PH.D. STUDENT’S SUPERVISOR AND RESPONSIBLE OF DOUBLE DEGREE AGREEMENT

Scientific responsible Double PhD Agreement for joint supervision of the student Nguyen Thanh Cong Lai with Prof. Didier Aussel, University of Perpignan, France.

Supervisor of the Ph.D. student: Muhammad Ulkhaq Ph.D. candidate of the Ph.D. program on “Analytics for Economics and Management”, XXXV Cycle, University of Brescia (Italy).

Supervisor of the Ph.D. student: Nguyen Thanh Cong Lai. Ph.D. candidate of the Ph.D. program on “Analytics for Economics and Management”, XXXIV Cycle, University of Brescia (Italy).

Supervisor of the Ph.D. student: Arega Getaneh. Ph.D. candidate of the Ph.D. program on “Analytics for Economics and Management”, XXXIII Cycle, University of Brescia (Italy).

Co-Supervisor of the Ph.D. student: Roberta Toninelli. Ph.D. candidate of the Ph.D. program on “Mathematics for Economic Decisions”, XXXI Cycle, University of Pisa (Italy). Ph.D thesis “Data envelopment analysis: uncertainty, undesirable outputs and an application to world cement industry”

TEACHING EXPERIENCES MASTER COURSES

2018-19 **Professor** in Mathematical Methods for Environmental Sustainability (9 CFU,60 hours, in English) University of Brescia (Italy).

2012-16 **Professor** in Quantitative methods for economics and business (9 CFU, 60 hours, in English) University of Brescia (Italy).

TEACHING EXPERIENCES UNDERGRADUATE COURSES

2020-Present **Professor** in Calculus II (6 CFU,40 hours, in Italian) University of Brescia (Italy)

2019-Present **Professor** in Calculus I (9 CFU,60 hours, in Italian) University of Brescia (Italy)

2017-Present **Professor** in Financial and Actuarial Mathematics (6 CFU,40 hours, in Italian) University of Brescia (Italy)

2010-11 **Professor** in Financial Mathematics (all courses) (6 CFU,40 hours, in Italian) University of Pisa (Italy).

2009-19 **Teaching Assistant** in Mathematics for economics and business (in Italian) University of Brescia (Italy).

2009-10 **Teaching Assistant** in Informatics for finance University of Brescia (Italy).

2009-10 **Teaching Assistant** in Mathematics for economics and business (in Italian) University of Pisa (Italy).

ADDITIONAL INFORMATION

Journal Referee **Referee** of the following international journals:

- European Journal of Operational Research
- Annals of Operations Research
- Optimization
- IEEE Transactions on Power Systems
- Energy Policy
- Decisions in Economics and Finance
- International Journal of Production Economics
- Science of the Total Environment (STOTEN)
- British Journal of Mathematics & Computer Science
- International Journal of Product Development
- International Journal of Public Policy
- Water Resources Management
- Socio-Economic Planning Sciences
- Journal of Environmental Planning and Management
- Journal of Environmental Management

PERSONAL SKILLS

Mother tongue Italian

Other languages	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
ENGLISH	B2	B2	B2	B2	B2

Levels: A1 and A2: Basic user – B1 and B2: Independent user – C1 and C2: Proficient user
Common European Framework of Reference for Languages

Driving licence B