CURRICULUM VITAE OF FRANCESCA MAGGIONI
(short version)

PERSONAL DETAILS
Name and Surname: Francesca Maggioni
Birthplace and Birthdate: Iseo (Bs), December 20, 1980
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POSITIONS
(2011-now) **Assistant Professor** in Operations Research (s.s.d. MAT/09), Department of Management, Economics and Quantitative Methods, University of Bergamo (permanent position).
(2006-2011) Assistant Professor in Mathematical Methods for Economics and Finance (s.s.d. SECS−S/06), Department of Mathematics Statistics, Computer Science and Applications, University of Bergamo (permanent position).
(2005-2006) Research fellow, Department of Mathematics Statistic Computer Science and Applications, University of Bergamo, Research title: Applications of stochastic programming to energy and finance.

NATIONAL SCIENTIFIC QUALIFICATIONS
She has obtained the Italian scientific qualification as **Full Professor** in:
- Operations Research (MAT/09), Legal Soundness: Sept. 24, 2018 – Sept. 24, 2024.
- Mathematical Methods for Economics and Finance (SECS−S/06), Legal Soundness: Oct. 8, 2018 – Oct. 8, 2024.

She has obtained the Italian scientific qualification as **Associate Professor** in:
- Operations Research (MAT/09), Legal Soundness: Mar. 30, 2017 – Mar. 30, 2023.
- Mathematical Methods for Economics and Finance (SECS−S/06), Legal Soundness: Apr. 5, 2017 – Apr. 5, 2023.

INDICATORS OF SCIENTIFIC PRODUCTION
SCOPUS Documents: 31 Citations: 225 h-index 9
GOOGLE SCHOLAR global indicators Citations: 515 h-index: 14 i10-index: 17
GOOGLE SCHOLAR indicators from 2013 Citations: 410 h-index: 12 i10-index: 14

EDUCATION
(2006) Ph.D. in Pure and Applied Mathematics at University of Milano-Bicocca.
(2003) Degree in Mathematics (summa cum laude) at Università Cattolica del Sacro Cuore of Brescia.

ROLES IN SCIENTIFIC ASSOCIATIONS (2016-2022)
- Elected member and treasurer of the governing board of the Stochastic Programming Society “Committee on Stochastic Programming (COSP)”.
- Elected member of the governing board of the “European Working Group on Stochastic Optimization (EWGSO)”.
- National Coordinator with Patrizia Beraldi of AIRO Thematic Section of Stochastic Programming (2018-2022).

NATIONAL AND INTERNATIONAL ACKNOWLEDGMENTS
- Best Student Award: Faculty of Mathematics, Physics and Natural Sciences, Università Cattolica del Sacro Cuore of Brescia, academic years 2000/2001 and 2001/2002.

- Best Poster Award: “Modeling filament kinematics for proteic coding and viral spooling”, Conference on Knots and other Entanglements in Biopolymers: Topological and Geometrical Aspects of DNA, RNA and Protein Structures, Trieste, (Sept. 15−20 2008).
- Best Paper Award: “Velocity, energy and helicity of vortex knots and unknots”, selected as one of the best research work of 2010, including a special mention in the issue of Virtual Journal of Atomic Quantum Fluids; Section: Topological excitations of quantum fluids.
- Second Place Winner: Interactive Poster Session, “INFORMS Conference” 13–16 Nov. 2011 Charlotte, North Carolina (USA).
- Semi-finalist for the INFORMS Interactive Poster Session, “INFORMS Conference” 14-17 Oct. 2012 Phoenix, Arizona (USA).
- Scientific Research Award “5 per 1000” for scientific merits in the years 2008-2010 as researcher of the Department of Mathematics, Statistics, Computer Science and Application of the University of Bergamo.
- Scientific Research Award “5 per 1000” for scientific merits in the years 2012-2013-2014 as researcher of the Department of Management, Economics and Quantitative Methods of the University of Bergamo.
- Best Paper Award: “On the groundstate energy spectrum of magnetic knots and links”, selected by the editorial board of the Journal of Physics A: Mathematical and Theoretical as one of the best research works of 2014, including a special mention in the JPA 2014 Highlights compilation.
- Outstanding Contribution in Reviewing Award for the Journal “Computers and Operations Research” (Dec. 2017).

EDITORIAL ACTIVITIES

- Associate Editor of the international journal: Computational Management Science, Springer.
- Guest Editor of the special issue of Computational Management Science “Special issue on the 13th international conference on computational management science”.
- Guest Editor of the special issue of Annals of Operations Research, “Stochastic Optimization: Theory and Applications, in memory of M. Bertocchi”.
- Outstanding Contribution in Reviewing Award for the international journal: Computers and Operations Research (2017).
- Peer Review Activity for International Journals: Computer & Mathematics with Applications, Central European Journal of Operations Research, Journal of Scheduling, Journal of Optimization, Theory and Applications, 4OR, European Journal of Operational Research, Omega, Computational Management Science, Transportation Science, INFORMS Journal on Computing, IIE Transactions, IMA Journal of Management Mathematics, Annals of Operations Research, Computers & Operations Research, Operations Research.

PHD MEMBERSHIP AND SUPERVISION OF PHD STUDENTS

She has been member of the following PhD Programs:
- Applied Economics and Management, University of Bergamo, cycles 33-34.
- Analytics for Economics and Business, University of Bergamo and Brescia, cycles 29-30-31-32.
- Metodi Computazionali per le Previsioni e decisioni economiche e finanziarie, University of Bergamo, cycles 22-23-24-25.

She has been co-supervisor with L. Bertazzi of three PhD students at the University of Bergamo:
- Matteo Cagnolari, Title of the Thesis: The Value of the Right Distribution for the Newsvendor Problem and a bikesharing problem, cycle 29.
- Sarem Deylami, Title of the Thesis: Optimization Models in Logistics, cycle 30.
- Rossana Cavagnini, cycle 31.

She has been nominated as member of the final examination committee for:
- PhD student of the Norwegian University of Science and Technology, Trondheim (N), 2018.
- PhD student of the Norwegian School of Economics NHH, Bergen (N), 2018.

She has co-supervised one annual post-doc fellow Davide Lauria at the University of Bergamo.

SEMINARS

She has been invited to give seminars at: Molde University College (N), University of Newcastle (UK), Lancaster University (UK), Isaac Newton Institute for Mathematical Science, Cambridge (UK), University of Vienna (A), CIRRELT, Montreal (CND), Kaunas University of Technology (LT), Charles University, Prague (CZ), Univesità Cattolica di Brescia, University of Brescia, Politecnico di Torino, Politecnico di Milano, University of Salerno, University of Bologna.

INVITED AND KEYNOTE SPEAKER

She has been invited or keynote speaker at:

- Workshop "New directions in Stochastic Optimization" Aug. 18-25, 2018, Oberwolfach (DE).
- International Ph.D. winter school "Stochastic programming in energy" Feb. 11-15, 2018, Geilo (N).
- Computational Management Science Conference, May 29-Jun. 1, 2017, Bergamo (Pleanary speaker).
- International Ph.D. winter school "Stochastic Programming with Applications to Energy, Logistics and Finance", Jan. 15-21, 2017, Passo del Tonale.
- International Ph.D. winter school "Stochastic programming with applications in energy, finance and insurance" Mar. 23-28, 2014, Bad Hofgastein (A).
- International PhD Excellence Course "Stochastic Programming and its applications to Network, Energy and Logistics problems", Mar. 10-15, 2014, Politecnico di Torino.
- Master Course on "Stochastic Programming", Kaunas University of Technology (LT), Nov. 17-23, 2013, Kaunas (LT).
- International Ph.D. winter school "Stochastic programming with applications in energy and natural resources" Apr. 7-13, 2013, Tignes (F).

Since 2003 she gave in total 100 talks at national and international conferences.

VISITING RESEARCH

She has been visiting researcher at the following institutions/universities: Molde University College (N), University of Newcastle (UK), Oxford Centre for Collaborative Applied Mathematics (UK), Lancaster University Management School (UK), University of Maryland, (USA), Isaac Newton Institute for Mathematical Science, Cambridge (UK), University of Vienna (A), CIRRELT, Montreal (CND), University of Paris Sud (F).

RESEARCH PROJECTS

- Principal Investigator of the Grant from the Italian group of mathematical physics "Progetto Giovani GNFM 2009": "Energy of knotted DNA filaments", 3000 euros.
- Principal Investigator of the Galileo Project 2015 "Stochastic Optimization for Energy Planning". French investigator A. Lisser, Université Paris Sud. The proposal received the evaluation A+ but was not funded due to budget limitations.
- Principal Investigator of the project "Virtualizzazione della produzione di serie. Garantire la robustezza e la costanza del processo con l'ottimizzatore", in collaboration with ECOTRE (2016), 4000 euros.
- Principal Investigator of the project "Potenziamento dei metodi di previsione delle vendite dei prodotti conto terzi e programmazione ottimale dell'approvvigionamento di materie prime e di materiali per l'imballaggio ed il confezionamento", in collaboration with CENTRALE DEL LATTE DI VICENZA S.p.a., University of Brescia and Sportello Matematico per l'industria italiana (2016), 10000 euros.
- Principal Investigator of the Galileo Project 2017 "Optimization of emergency department workforce scheduling problem under uncertainty". French investigator A. Lisser Universit Paris Sud. The proposal received the evaluation A but was not funded due to budget limitations.
- Principal Investigator of CARIPLO foundation Grant 2012: "FYRE - Fostering Young Reserchers project", 5000 euros.
- Principal Investigator of the Grant FFABR: Fondo per il finanziamento delle attività base di ricerca, 2017, 3000 euros.

- (2007-2018): Grants from the Department of Management Economics and Quantitative Methods, University of Bergamo for annual research projects as principal investigator. Approx 4000 euros per year.
- PRIN2015 “Transportation and Logistics Optimization in the Era of Big and Open Data”; national coordinator MG. Speranza, 05/02/2017 - 05/02/2020, protocol n. 2015JJLC3E, member of the Research unit of the University of Brescia, 214485 euros.
- EN17 PROJECT – Accordo Quadro, Regione Lombardia: “Metodi di integrazione delle fonti energetiche rinnovabili e monitoraggio satellitare dell’impatto ambientale”; coordinator A. Fassò, CUP F11J10000200002, 2011-2012, role: researcher, 856000 euros.
- PRIN2009 “Modelli e algoritmi avanzati per problemi di vehicle routing”; national coordinator MG. Speranza, protocol n. 2009HWBRAW, 17/10/2011 - 17/10/2013, member of the Research unit of the University of Brescia, 128727 euros.
- PRIN2007 “Ottimizzazione della logistica distributiva”; national coordinator MG. Speranza, protocol n. 2007FLMJHR, 2009-2011, member of the Research unit of the University of Brescia, 116901 euros.
- PRIN2005 “Modelli di supporto alle decisioni per gli operatori del mercato elettrico italiano e loro impatto sulla sicurezza del sistema”; national coordinator R. Musmanno, protocol n. 2005015592, 2007-2009, member of the Research unit of the University of Bergamo, 56000 euros.
- Grants from the University of Bergamo for the visit of international colleagues (F. Potra, A. Lisser, G. Pflug, M. Hewitt, I. Bomze, S. Meisel, D. Dentcheva).

MAIN TEACHING ACTIVITIES
- (2013 - 2018) Undergraduate course of Operations Research, Department of Management, Economics and Quantitative Methods, University of Bergamo.
- (2013 - 2018) Graduate course of Quantitative Models for Decision Making, Department of Management, Economics and Quantitative Methods, University of Bergamo.
- (2014 - 2018) Graduate course of Operations Research, Faculty of Mathematics, Physics and Natural Sciences, Università Cattolica of Brescia.
- (2011 - 2017) Phd courses in Measure Theory, Non Linear Optimization, Stochastic Programming, Doctorate Programs in “Computational Methods for Forecasting and Decisions in Economics and Finance”, "Analytics for Economics and Business", Universities of Bergamo and Brescia.

OTHER SCIENTIFIC ACTIVITIES
- Organizers of 10 invited sessions at AIRO, EURO, APMOD, CMS, ECSO, ICSP and ODS Conferences.
- Stream Organizer “Stochastic and Robust Optimization”, 29 European Conference on Operational Research, Valencia, Jul. 8-11, 2018, Valencia (S).
- Member of the Scientific Committee of “Computational Management Science Conference”, May 29-31, 2018, Trondheim (N).
- Member of the Jury of “CMS Student Best Paper Prize”, Computational Management Science Conference, May 29-31, 2018 Trondheim (N).
- Member of the Scientific Committee of “European Conference on Stochastic Optimization” Sep. 20-22, 2017, Rome.
- Member of the Scientific and Organizing Committee of “Computational Management Science Conference”, May 29-Jun. 1, 2017, Bergamo.
- Member of the Jury of “CMS Student Best Paper Prize”, Computational Management Science Conference, May 29-Jun. 1, 2017, Bergamo.
- Co-Chair of the Organizing and Scientific Committee of the Ph.D. winter school “Stochastic programming with applications in energy, logistics and finance”, Jan. 15-21, 2017, Passo del Tonale.
- Member of the Scientific Committee of EURO Mini Conference on “Stochastic Programming and Energy Applications” (ESPC-2014), Sep. 25-27, 2014, Paris (F).
- Stream Organizer of the stream “Stochastic Models for Service Operations”, IFORS Conference, Jul. 13-18, 2014, Barcelona (S).
- Member of the Organizing and Scientific Committee of “XIII International Conference on Stochastic Programming”, University of Bergamo, Jul. 6-12, 2013, Bergamo.

- Member of the Organizing Committee of “CARIPLO Stochastic Programming School SPS2009”, University of Bergamo, Nov. 23-28, 2009, Bergamo.

Bergamo, October 9, 2018
Francesca Maggioni