

Sara Biagini

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NATIONAL HABILITATIONS

- Full professor in Mathematics for Economics and Finance Sector 13-D4 obtained in two competitions, 2013 and 2018 — *valid till 2027*
- Associate professor in Analysis and Probability, Sector 01-A3 (bibliometric) obtained in 2013 — *valid till 2022*

EMPLOYMENT

Associate Professor	2015 –
LUISS G. Carli, Department of Economics and Finance	
Assistant Professor	2008 – 2015
University of Pisa, Department of Statistics and Applied Mathematics	
Visiting Professor	Spring 2007
Princeton University, ORFE Department (with offer of a tenure-track position)	
Assistant Professor	2002 – 2008
University of Perugia, Department of Statistics and Applied Mathematics	

ACADEMIC TRAINING

Ph.D. in Mathematics for Finance, highest honors. Scuola Normale Superiore, Pisa	2005
Laurea (B.S.) in Maths, highest honors. University of Pisa	1999

PRIZES AND AWARDS

MINERVA FOUNDATION LECTURES	2009
"Topics in portfolio optimization with general underlying assets"	
Instructor of a prestigious graduate course, on appointment by Y. Karatzas, Columbia University	
INDAM-SIMAI prize	2006
Award for the best Italian Ph.D. thesis in Applied Mathematics, years 2004-2006	

SERVICE TO THE PROFESSION

Associate Editor for

- Mathematical Finance, Wiley: onlinelibrary.wiley.com/journal/14679965
- Review of Derivatives Research, Springer: www.springer.com/journal/11147

Natural Sciences and Engineering Research Council of Canada (NSERC): reviewer for Mathematical Finance national projects.

MIUR (Italian Ministry of University): PRIN project reviewer.

Reporter of international Ph.D. theses and member of Ph.D. committees
Recruiter for tenure-track positions in Italy and abroad.

ACADEMIC VISITS

Paris Dauphine Collaboration with prof René Aïd, December 2018. Oslo Academy of Science, under Stochastics in Environmental and Financial Economics (SEFE) project May 2015- June 2015.
The London School of Economics Statistics Department, from 01/2015 to 03/2015 (three months).
Dublin City University Mathematics Dept, February 22-26 2011.
Collegio Carlo Alberto Visiting Research Fellow of the Collegio, two months, May-June 2009.
University of Michigan, Ann Arbor. Mathematics Dept, Apr 6-11 2009.
Columbia University, New York. Mathematics Dept, Jan 18- 28 2009.
Columbia University, New York. IEOR Dept, 26 Oct- 2 Nov 2007.
University of Texas at Austin. Visiting Research Fellow, Mathematics Dept, 3 weeks, October 2007.
Boston University. Visiting Research Fellow, Mathematics Dept, June-July 2007.
Princeton University. Visiting Professor, ORFE Dept, five months, Spring 2007 .
Ecole Polytechnique de France. June 2006, under AMaMeF short visit grant no. 901.

PUBLICATIONS AND PREPRINTS

- *Robust portfolio choice with sticky wages (with Fausto Gozzi and Margherita Zanella). **Submitted, 2021***
- *Optimal dynamic regulation of carbon emissions market (with René Aïd). **Submitted, 2021 - file: arXiv***
- *Convex Duality and Orlicz Spaces in Expected Utility Maximization (with Ales Cerny). **Mathematical Finance, 30 (1) pp 85-127, 2020.***
- *Convex duality in stochastic optimization and mathematical finance II (with T. Pennanen and A-P Perkkiö). **Journal of Convex Analysis, 25(2) pp 403-420, 2018.***
- *The robust Merton problem of an ambiguity averse investor (with M. Pinar). **Mathematics and Financial Economics 11, 1-24, 2017.***
- *Robust Fundamental Theorem for Continuous Processes (with B. Bouchard, K. Kardaras, M. Nutz). **Mathematical Finance, 27, 963-987, 2017.***
- *Dynamic quasi concave performance measures (with J. Bion Nadal). **Journal of Mathematical Economics, 55, 143-153, 2014.***
- *The best Gain-Loss Ratio is a poor performance measure (with M. Pinar). **SIAM Journal of Financial Mathematics, 4-1, 228-242, 2013.***
- *A note on investment opportunities when the credit line is infinite (with M. Sirbu). **Stochastics, 84 (2-3) , 157-169, 2012.***

- *Admissible strategies in semimartingale portfolio selection (with A. Cerny).*
SIAM Journal on Control and Optimization, 49(1), 42-72, 2011.
- *Relaxed Utility Maximization in Complete Markets (with P. Guasoni).*
Mathematical Finance, 21 no. 4 p. 703-722, 2011.
- *Indifference price with general semimartingales (with M. Frittelli and M. Grasselli).*
Mathematical Finance, 21(3), pp. 423-446, 2011.
- *A Unified Framework for Utility Maximization Problems: An Orlicz Spaces Approach (with M. Frittelli).*
The Annals of Applied Probability, 18/3, 929-966, 2008.
- *The supermartingale property of the optimal wealth process for general semimartingales (with M. Frittelli).*
Finance and Stochastics, 11/2 253-266, 2007.
- *Utility maximization in incomplete markets for unbounded processes (with M. Frittelli).*
Finance and Stochastics, 9/4 493-517 (2005).
- *On the super replication price of unbounded claims (with M. Frittelli).*
The Annals of Applied Probability, 14/4, 1970-1991 (2004).

CONFERENCE PROCEEDINGS AND BOOK CHAPTERS

- *Expected utility maximization: the dual approach. Item, in: Encyclopedia of Quantitative Finance, Rama Cont editor. Wiley 2009.*
- *On the extension of the Namioka-Klee theorem and on the Fatou property for Risk Measures (with M. Frittelli). Optimality and risk: modern trends in mathematical finance. The Kabanov Festschrift. Editors: F. Delbaen, M. Rasonyi, Ch. Stricker. Springer 2009.*
- *An Orlicz Spaces Duality for Utility Maximization in Incomplete Markets. Seminar on Stochastic Analysis, Random Fields and Applications V: Centro Stefano Franscini, Ascona, May 2005 (Progress in Probability). Birker. ISBN: 3764384573.*
- *Model-free representation of pricing rules as conditional expectations.(with R. Cont). Stochastic processes and applications to mathematical finance. Proceedings of the 6th Ritsumeikan international symposium, pp 53-66. 2007 World Scientific, Singapore.*

TEACHING, IN ITALY AND AT PRINCETON

LUISS G. Carli.

Undergraduate level: *Mathematical Finance, Mathematics II.*

Master level: *Probability, Mathematical Finance, Mathematical Methods for the Enterprise*

University of Pisa.

Undergraduate level: *Mathematical Finance, Calculus for Economics.*

Master level: *Financial Derivatives, Mathematical Methods for Financial Markets (2008-2015)*

Princeton University.

Master level: *Interest rate models, Spring 2007.*

University of Perugia.

Master level: Mathematics for Risk Management; Advanced Calculus; Financial Mathematics.

PhD level: Finance (with S. Herzel) (2002-08).

ADVISING: PHD STUDENTS & POST-DOCS

2021 - Maria Arduca, PhD from Milano Bicocca.

2015 Candia Riga, PhD from Scuola Normale Superiore. Co-advised with Rama Cont.

COLLABORATORS

René Aïd - Paris Dauphine

Jocelyne Bion Nadal - CNRS and Ecole Polytechnique de France

Bruno Bouchard - Ceremade Paris-Dauphine

Ales Cerny - Cass Business School

Rama Cont - Oxford

Marco Frittelli - Milano Statale

Matheu Grasselli - Mc Master University, Toronto

Paolo Guasoni - Boston University and Dublin College University

Kostas Kardaras - The London School of Economics

Marcel Nutz - Columbia University

Teemu Pennanen - King's College London

Ari-Pekka Perkio - TU Berlin

Mustafa Pinar - Bilkent University, Ankara

Mihai Sirbu - UT at Austin, Texas.

Gordan Zitkovic - UT at Austin, Texas