

# Elisa Tacconi

## PERSONAL INFORMATION

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Born the 12th of September 1977 in Ascoli Piceno, Italy  
Italian Citizenship

Via Francesco Burlamacchi 8  
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## FIELDS OF INTERESTS

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Term Structure Dynamics / Asset pricing / Malliavin Calculus and Applications to Finance /  
Optimal Control in Finite and Infinite Dimension

## APPOINTMENTS

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<b>Since 2024</b>	<b>Bocconi University, Department of Finance</b> Tenured Lecturer in "Metodi matematici dell'Economia e delle Scienze Attuariali e Finanziarie".
<b>2018-2023</b>	<b>Bocconi University, Department of Finance</b> Lecturer in "Metodi matematici dell'Economia e delle Scienze Attuariali e Finanziarie". Maternity leave 2019.
<b>2021</b>	<b>Bocconi University, Department of Finance</b> Faculty advisor in the project with Citygroup bank.
<b>2012-2018</b>	<b>Bocconi University, Department of Finance</b> Researcher with grant. Maternity leave 2016-2017.
<b>2012</b>	<b>Saïd Business School, Oxford</b> Lecturer in Continuous Time Finance.

## EDUCATION

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<b>2007-2011</b>	<b>LUISS Guido Carli</b> Ph.D. in Mathematical Methods for Economics, Business, Finance and Insurance. Title: "Two problems in Control Theory and Applications to Economics" Supervision: Federico Salvatore (University of Siena (Italy)), Gozzi Fausto (LUISS, Rome), Papi Marco (University Bio-Medical Campus, Rome).
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- 2007-2008**                    **University Paris XIII, Galileo Institute**  
 Master in Mathematics and Computer Sciences.  
 Specialization “Optimization, Modelization and Calculus”
- Fall 2006**                    **Italian National Research Council, Institute for Applied  
 Calculus**  
 Visiting Fellow.  
 Research unit: “Quantitative and qualitative methods in finance and  
 economics”
- 2006**                            **University of Modena and Reggio Emilia**  
 Master of Advanced Studies in Computational Finance and Risk  
 Management.  
 Thesis title: A Parametric Study of Term Structure Dynamics  
 Supervision: M. BERNASCHI and D. VERGNI.
- 2005**                            **University of Bologna**  
 Master’s Degree in Mathematics.  
 Thesis title: Differential Games with Special Structures.  
 Supervision: I. GALLIGANI and D. RITELLI.

## TEACHING EXPERIENCE

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- 2020-2024**                    **Bocconi University: *General Mathematics, Matematica  
 Generale, Preparatory Class for Mathematics, Applied Ma-  
 thematics.***  
 Undergraduate course.  
  
*Mathematical Models for finance.*  
 Master of Quantitative Finance and Risk Management.
- 2020-2021**                    **Bocconi University: *Faculty Advisor:* supervision of Bocconi  
 finance students selected for the Citi/Bocconi project.**  
 Graduate School.
- 2015-2019**                    **Bocconi University: *General Mathematics, Preparatory Class  
 for Mathematics.***  
 Undergraduate course.
- 2013-2014**                    **Bocconi University: *Quantitative Finance and Derivatives.***  
 Graduate course, Master of Finance.
- 2012-2015**                    **Bocconi University: *Matematica generale.***  
 Undergraduate course.
- 2012**                            **Oxford University: *Continuous Time Finance.***  
 Graduate course. Master in Financial Economics at Said Business  
 School.

## REFEREED PAPERS AND WORK IN PROGRESS

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- “Irreversible investment with fixed adjustment costs: a stochastic impulse control approach”, with S. Federico and M. Rosestolato, *Mathematics and Financial Economics*, Vol.13, pp. 579-616, 2019.
- “Dynamic Programming for the Optimal Control Problems with delays in the Control Variable”, with S. Federico, *SIAM Journal on Control and Optimization*, Vol. 52, Issue 2, pp. 1203-1236, 2014.
- “A Parametric Study of the Term Structure Dynamics”, with M. Bernaschi and D. Vergni, *Physica A: Statistical Mechanics and its Applications*, Vol. 387, Issue 5-6, pp. 1264-1272, 2008.
- “Altruism and asset pricing”, with Abraham Lioui and Andrea Tarelli, mimeo.
- “HJB equations for the optimal control of stochastic differential equations with delay in the control variable,” mimeo.
- “On the Existence of a Density for Controlled Stochastic Processes and Application to Portfolio Optimization by Dynamic Programming,” mimeo.

## AFFILIATION AND GRANTS

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<b>2011 - 2012</b>	<b>GNAMPA - Gruppo Nazionale per l'Analisi Matematica e la Probabilità</b> Member of the research project “ <i>On the analysis of distributional properties of controlled stochastic processes and application to the Portfolio Optimization.</i> ”
<b>2010 - 20011</b>	<b>Italian National Research Council, Institute for Applied Calculus</b> Modulo di attività di Commessa: DG.RSTL.004. Title: Modelli e Simulazioni.
<b>2007 - 2008</b>	<b>Italian National Research Council, Institute for Applied Calculus</b> Modulo di attività di Commessa: SP.P08.001. Title: Metodi quantitativi per il manufacturing.

## PRESENTATIONS AT CONFERENCES

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- *XIX Workshop on Quantitative Finance*, January 24/26 2018, Rome, Italy.
- *13<sup>th</sup> Viennese Workshop on Optimal Control and Dynamic Games*, May 13/16, 2015, Vienna (Austria).

- *XXXV Conference A.M.A.S.E.S.*, “HJB equations for the optimal control of differential equations with delay in the control variable”, September 15/17, 2011, Pisa, Italy.

## SUMMER SCHOOLS

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- *2<sup>nd</sup> European Summer School in Financial Mathematics*, Applied and Industrial Mathematics Society, Paris - August 2009.
- *6<sup>th</sup> Seminar on Stochastic Analysis, Random Fields and Applications*, Stefano Franscini center, Ascona, Switzerland - May 2008.
- *International Summer School in Risk Measurement and Control*, Swiss Institute, Rome - June 2007.
- *Finance Spring School*, University of Bologna, Bologna - May 2007.

## LANGUAGES AND COMPUTER SKILLS

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LANGUAGES: Italian (native), English (fluent), French (fluent).  
SOFTWARE: LINUX, MATLAB, LaTeX, MS OFFICE.

Milan, the 25th of May, 2024