

# Gerardo Ferrara

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## Education

PhD, Statistics and Applied Mathematics, Vilfredo Pareto Doctorate in Economics, University of Turin & Collegio Carlo Alberto, 2014

Special Student, Humanities and Social Sciences, California Institute of Technology, 2011

MSc, Finance, Coripe Piemonte, 2009

MSc, Finance and Banking, *Summa Cum Laude*, University of Rome Tor Vergata, 2007

BA, Economics and Finance, *Summa Cum Laude*, University of Palermo, 2005

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## Research Fields

Financial Mathematics, Investments, Risk Management, and Game Theory

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## Professional Activities

PhD Economist, Bank of England, Financial Market Infrastructure Directorate, 2014-Present

PhD Intern, Bank of England, Macro-Financial Risks Division, 2014

Fixed Term Contractor, Old Mutual, Financial Crime Prevention Group, London, 2014

Quantitative Analyst, Sella Servizi Bancari, Milan, 2009-2010

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## Academic Activities

### *Teaching experience*

Lecturer, Network Analysis, Master in Complexity, Collegio Carlo Alberto, 2014

Lecturer, Statistical and Programming Tools for Economics Applications, PhD in Economics & Master in Complexity, Collegio Carlo Alberto, 2013

Teaching Assistant, Macroeconomics, PhD & Master in Economics, Collegio Carlo Alberto, 2013

Lecturer, Mathematics for Economics, PhD in Economics, Collegio Carlo Alberto, 2012

*Research Experience*

Research Assistant, "Wealth at Retirement and Savings Adequacy Project", Center for Research on Pension and Welfare Policies (CeRP) and European Commission, 2013-2014

Research Assistant, Prof. Giovanna Nicodano, University of Turin, 2013-2014

Visiting Student Researcher, Prof. Marciano Siniscalchi, Northwestern University, 2011-2012

Visiting Student Researcher, Prof. Peter Bossaerts, California Institute of Technology, 2011

Research Assistant, University of Rome Tor Vergata and CASPUR, 2007

**Research Papers***Publications*

Balluck K., Galiay, A., Ferrara, G., and Hoggarth, G., "The small bank failures of the early 1990s: lessons for today from a story of boom and bust", *Bank of England Quarterly Bulletin*, 2016

*Working Papers*

Ferrara, G., Langfield, S., Liu, Z., and Ota, T., "Systemic illiquidity in the interbank network", *Bank of England Working Paper Series*, 2016

Ferrara, G., and Picillo, C., "Skin in the Game and Moral Hazard for Central Counterparties", *Working Paper*, 2016

Anand K., Ferrara, G., and Li, X. "Optimal Auction Design in CCP Default Management", *Working Paper*, 2015

Ferrara, G., "Portfolio Optimization Under Model Uncertainty", *Job market paper*, 2013

Ferrara, G., "Dynamic Systemic Risk in Financial Networks", *Working Paper*, 2013

*Other Publications*

Aldasoro, I., Faia, E., Ferrara, G., Langfield, S., Liu, Z., and Ota, T., "Bank liquidity requirements: How to get more bang for your buck", *Bank Underground*, 2016

Ferrara, G., "International Economics and Finance, Lehman Brothers, Bernard Madoff, Freddie Mac, Subprime mortgage, Financial Derivatives, Sovereign Funds and Euro", *Grande Encyclopaedia GEDEA and Encyclopaedia Nova UTET, Novara, De Agostini*, 2011

**Conference and Seminar Presentations**

9<sup>th</sup> International Conference on Computational and Financial Econometrics, London, 2015

1<sup>st</sup> International Conference on Payments and Settlement, Bundesbank, Frankfurt, 2015

13<sup>th</sup> Simulator Seminar on Quantitative Analysis of the Payment and Securities Settlement Systems, Bank of Finland, Helsinki, 2015

Centre for Central Banking Studies, Bank of England, 2015

2<sup>nd</sup> International Conference of the Society for Economic Measurement, OECD, Paris, 2015

Lunch Seminar, Department of Computer Science, University College London, London, 2015

Internal PhD Seminar, FSSR, Bank of England, 2014

Monday Lunch Seminar, Collegio Carlo Alberto, 2013

Lyon Workshop in Economics, Ecole Doctorale & Vilfredo Pareto Doctorate, 2013

Dissertation Workshop, University of Turin, 2012

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## **Honors, Awards, & Fellowships**

Junior Research Fellow, Netspar, Tilburg, 2013-2014

Doctoral Scholarship, University of Turin, 2010-2012

DAAD Scholarship funded by means of the German Foreign Office, University of Ulm, 2012

Master in Finance Scholarship, Coripe Piemonte, 2008-2009

Master of Science Scholarship, University of Rome Tor Vergata, 2005-2007

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## **Skills**

Languages: Italian (native speaker), English (excellent), and Spanish (basic skills)

Software: Matlab, Bloomberg, MS Office, VBA, EViews, SAS, Stata, R, C++, and Python