

FABRIZIO RUSSO

Research Associate | Teaching Assistant | Consultant

 [briziorusso.github.io](https://github.com/briziorusso)

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SUMMARY

My background is in Economics and Statistics and, as a consultant, I have led many modelling projects for financial institutions. I then obtained my PhD from Imperial College London, funded by the UKRI ([STAI CDT](#)). Passionate about research and innovation, I am studying and developing techniques for explainable knowledge discovery, to the benefit of both academia and industry. My research interests revolve around causal discovery, argumentation and explainable AI.

EDUCATION

PhD in Safe and Trusted Artificial Intelligence

 Full-time: Oct 2020 – Feb 2025

[Imperial College London](#)

 UK

- Supervisor: Prof. Francesca Toni
- Thesis: Causal Discovery for Trustworthy Artificial Intelligence
- Visiting PhD Student at King's College London ([STAI CDT](#))

MSc in Applied Statistics (Distinction)

 Part-time: Oct 2016 – Oct 2018

[University of London - Birkbeck College](#)

 UK

- Dissertation: Macroeconomic Modelling through VAR and VEC

BSc in Economics of Financial Markets and Institutions (1:1)

 Full-time: Oct 2009 – Oct 2012

[University of Rome - Tor Vergata](#)

 Italy

- Dissertation: The Tobin Tax between Theoretical Wherewithal and Practical Feasibility

Funded Exchange Program (Erasmus)

 Full-time: Oct 2011 – Jun 2012

[University of Madrid - Autonoma](#)

 Spain

WORK EXPERIENCE

Research Associate

 Full-time: Jan 2025-present

[Imperial College London](#)

 UK

- ERC-POC grant
- Research in Causal Discovery, Argumentation and Approximate Reasoning

Graduate Teaching Assistant

 Part-time: Oct 2021 & 2022

[Imperial College London](#)

 UK

- Teaching support for *Introduction to Machine Learning* course

Freelance Consultant

 Part-time: Mar 2022 – Sep 2022

[Imperial College Consultants \(ICON\)](#)

 UK & USA

- Research on outlier identification and forecast for UK commercial properties index

Doctoral Researcher

 Part-time: Jan 2021 – Apr 2021

[Ernst & Young \(in collaboration with STAI CDT\)](#)

 UK

- Research on back-door poisoning attacks identification for transformer-based Large Language Models

Head of Data Science

4most Europe Ltd

📅 Full-time: Feb 2018 – Sep 2020

📍 UK

- Research Lead - Replicate Underwriter Behaviour using Machine Learning
- Research Lead - Commercial Credit Risk Scoring using Machine Learning
- Research Lead - Design, prototype and build an interactive monitoring tool (Tech of the Year - National Credit Awards '22)

Managing Consultant

4most Europe Ltd

📅 Full-time: Jul 2016 – Jan 2018

📍 UK & Canada

Credit Risk Consultant

4most Europe Ltd

📅 Full-time: Jul 2015 – Jun 2016

📍 UK

Credit Risk Analyst

General Electric Capital - UK Home Lending

📅 Full-time: May 2014 – Jun 2015

📍 UK

PUBLICATIONS

👥 Conference Proceedings

- Russo, Fabrizio and Francesca Toni (2025). "Shapley-PC: Constraint-based Causal Structure Learning with a Shapley Inspired Framework". In: *Proceedings of the 5th Conference on Causal Learning and Reasoning, CLeaR 2024, Lousanne, Switzerland. May 7-9, 2025*. Forthcoming.
- Russo, Fabrizio, Anna Rapberger, and Francesca Toni (2024). "Argumentative Causal Discovery". In: *Proceedings of the 21st International Conference on Principles of Knowledge Representation and Reasoning, KR 2024, Hanoi, Vietnam. November 2-8, 2024*.
- Leofante, Francesco, Hamed Ayoobi, Adam Dejl, Gabriel Freedman, Deniz Gorur, Junqi Jiang, Guilherme Paulino-Passos, Antonio Rago, Anna Rapberger, **Fabrizio Russo**, Xiang Yin, Dekai Zhang, and Francesca Toni (Aug. 2024). "Contestable AI Needs Computational Argumentation". In: *Proceedings of the 21st International Conference on Principles of Knowledge Representation and Reasoning, KR 2024, Hanoi, Vietnam. November 2-8, 2024*, pages 888–896.
- Russo, Fabrizio and Francesca Toni (2023). "Causal Discovery and Knowledge Injection for Contestable Neural Networks". In: *ECAI 2023 - 26th European Conference on Artificial Intelligence, September 30 - October 4, 2023, Kraków, Poland. Volume 372. Frontiers in Artificial Intelligence and Applications. IOS Press, pages 2025–2032*.
- Russo, Fabrizio (2023). "Argumentation for Interactive Causal Discovery". In: *Proceedings of the 32nd International Joint Conference on Artificial Intelligence, IJCAI 2023, 19th-25th August 2023, Macao, SAR, China. ijcai.org, pages 7091–7092*.
- Rago, Antonio, **Fabrizio Russo**, Emanuele Albini, Pietro Baroni, and Francesca Toni (2021). "Forging Argumentative Explanations from Causal Models". In: *Proceedings of the 5th Workshop on Advances in Argumentation in Artificial Intelligence 2021 co-located with the 20th International Conference of the Italian Association for Artificial Intelligence (AlxIA 2021). Volume 3086. CEUR Workshop Proceedings. CEUR-WS.org*.

📖 Journal Articles

- Rago, Antonio, **Fabrizio Russo**, Emanuele Albini, Pietro Baroni, and Francesca Toni (2023). "Explaining Classifiers' Output with Causal Models and Argumentation". In: *Journal of Applied Logics – IfCoLog Journal of Logics and their Applications, Special Issue: Advances in Argumentation in AI 10.3*, pages 421–449.

📄 Working Papers

- Bengel, Lars, Lydia Blümel, Elfia Bezou-Vrakatseli, Federico Castagna, Giulia D'Agostino, Isabelle Kuhlmann, Jack Mumford, Daphne Odekerken, **Fabrizio Russo**, Stefan Sarkadi, Madeleine Waller, and Andreas Xydis (2024). *Online Handbook of Argumentation for AI: Volume 4*. arXiv: [2401.09444](https://arxiv.org/abs/2401.09444).

SERVICE

- XAI-FIN at ICAIF '24 (Assistant Chair)
- ICLR '25 (Reviewer)
- NEURIPS '24 (Reviewer)
- AISTATS '24 (Reviewer)
- XAI-FIN at ICAIF '23 (Assistant Chair)
- ECAI '23 (Reviewer)
- AISTATS '23 (Top-Reviewer Award)
- BSKY at AAMAS '23 (Reviewer)
- AISTATS '22 (Reviewer)
- ICML '22 (Reviewer)
- XAI-FIN at ICAIF '22 (Workshop co-organiser)
- XAI-FIN at ICAIF '21 (Reviewer)
- XAI Seminars Series @ Imperial (Co-organiser)