FABRIZIO RUSSO

Research Assistant | Teaching Assistant | Consultant

🔗 briziorusso.github.io   in fabriziorusso   ⌗ briziorusso

SUMMARY

Currently studying towards a PhD in Computer Science funded by the UKRI Centre for Doctoral Training in Safe and Trusted Artificial Intelligence (STAI CDT, 4 years program). My background is in Economics and Statistics and, as a consultant, I have led several modelling projects for financial institutions. Passionate about research and innovation, I am studying and developing techniques for explainable knowledge discovery, to the benefit of both academia and industry.

EDUCATION

PhD in Safe and Trusted Artificial Intelligence
Imperial College London

📅 Full-time: Oct 2020 – Mar 2025 (exp)
📍 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)
University of London - Birkbeck College

📅 Part-time: Oct 2016 – Oct 2018
📍 UK

- Dissertation: Macroeconomic Modelling through VAR and VEC

BSc in Economics of Financial Markets and Institutions (1:1)
University of Rome - Tor Vergata

📅 Full-time: Oct 2009 – Oct 2012
📍 Italy

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

Funded Exchange Program (Erasmus)
University of Madrid - Autonoma

📅 Full-time: Oct 2011 – Jun 2012
📍 Spain

WORK EXPERIENCE

Research Assistant
Imperial College London

📅 Full-time: Jan 2025-present
📍 UK

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

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Graduate Teaching Assistant
Imperial College London

📅 Part-time: Oct 2021 & 2022
📍 UK

- Teaching support for *Introduction to Machine Learning* course

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Freelance Consultant
Imperial College Consultants (ICON)

📅 Part-time: Mar 2022 – Sep 2022
📍 UK & USA

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

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Doctoral Researcher
Ernst & Young (in collaboration with STAI CDT)

📅 Part-time: Jan 2021 – Apr 2021
📍 UK

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

Head of Data Science	📅 Full-time: Feb 2018 – Sep 2020

4most Europe Ltd   📍 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	📅 Full-time: Jul 2016 – Jan 2018

4most Europe Ltd   📍 UK & Canada

Credit Risk Consultant	📅 Full-time: Jul 2015 – Jun 2016

4most Europe Ltd   📍 UK

Credit Risk Analyst	📅 Full-time: May 2014 – Jun 2015

General Electric Capital - UK Home Lending   📍 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 (AIxIA 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.

SERVICE

- XAI-FIN at ICAIF '24 (Assistant Chair)
- ICLR '24 (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)