FABRIZIO RUSSO

Research Postgraduate

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 Computer Science Imperial College London	
 Supervisor: Prof. Francesca Toni Topic: Causality and Argumentation for Explainable Al Visiting PhD Student at King's College London 	
MSc in Applied Statistics (Distinction)	
University of London - Birkbeck College	■ Fart-time: Oct 2016 - Oct 2016
Dissertation: Macroeconomic Modelling through VAR and VEC	
BSc in Economics of Financial Markets and Institutions (1:1) University of Rome - Tor Vergata	
• Dissertation: The Tobin Tax between Theoretical Wherewithal and Practical Feasibility	
Funded Exchange Program University of Madrid - Autonoma	_
	∰ Full-time: Oct 2011 – Jun 2012 ♥ Spain
University of Madrid - Autonoma EXPERIENCE Graduate Teaching Assistant	Part-time: Oct 2021 & 2022
University of Madrid - Autonoma EXPERIENCE Graduate Teaching Assistant Imperial College London	♀ Spain
University of Madrid - Autonoma EXPERIENCE Graduate Teaching Assistant Imperial College London • Teaching support for Introduction to Machine Learning course Freelance Consultant	Part-time: Oct 2021 & 2022 ♥ UK Part-time: Mar 2022 - Sep 2022
University of Madrid - Autonoma EXPERIENCE Graduate Teaching Assistant Imperial College London • Teaching support for Introduction to Machine Learning course Freelance Consultant	Part-time: Oct 2021 & 2022 ♥ UK Part-time: Mar 2022 - Sep 2022
University of Madrid - Autonoma EXPERIENCE Graduate Teaching Assistant Imperial College London • Teaching support for Introduction to Machine Learning course Freelance Consultant Imperial College Consultants (ICON)	Part-time: Oct 2021 & 2022 V UK Part-time: Mar 2022 - Sep 2022 V UK & USA
University of Madrid - Autonoma EXPERIENCE Graduate Teaching Assistant Imperial College London • Teaching support for Introduction to Machine Learning course Freelance Consultant Imperial College Consultants (ICON) • Research on outlier identification and forecast for UK commercial properties index	Part-time: Oct 2021 & 2022
University of Madrid - Autonoma EXPERIENCE Graduate Teaching Assistant Imperial College London • Teaching support for Introduction to Machine Learning course Freelance Consultant Imperial College Consultants (ICON) • Research on outlier identification and forecast for UK commercial properties index Doctoral Researcher	Part-time: Oct 2021 & 2022

• Research Lead - Design, prototype and build an interactive monitoring tool (Tech of the Year - National Credit Awards '22)

Research Lead - Replicate Underwriter Behaviour using Machine Learning
 Research Lead - Commercial Credit Risk Scoring using Machine Learning

Managing Consultant

4most Europe Ltd

Full-time: Jul 2016 - Jan 2018

UK & Canada

UK

9 UK

• Project Lead - IFRS9 model design and build for three Credit Providers and a Challenger Bank

Credit Risk Consultant

4most Europe Ltd

Credit Risk Analyst

Full-time: Jul 2015 - Jun 2016

• IAS39 model design and build for UK Credit Provider

Full-time: May 2014 - Jun 2015

General Electric Capital - UK Home Lending

• Run impairment process for secured and unsecured portfolio

PUBLICATIONS

Conference Proceedings

- 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. URL: http://ceur-ws.org/Vol-3086/paper3.pdf.
- Russo, Fabrizio (2023). "Argumentation for Interactive Causal Discovery". In: Proceedings of the 32nd International Joint Conference on Artificial Intelligence (IJCAI23).

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 Argumentgation in Al 10.3, pages 162–190. URL: http://www.collegepublications.co.uk/downloads/ifcolog00059.pdf.

Working Papers

• Russo, Fabrizio and Francesca Toni (2022). Causal Discovery and Injection for Feed-Forward Neural Networks. arXiv: 2205.09787. URL: https://doi.org/10.48550/arXiv.2205.09787.

TALKS

Argumentative Causal Discovery

₩ Feb 2023

Invited Speaker

STAI CDT Student Seminar Series, London UK

From Credit Risk to Explainable AI Research

∰ Jun 2022

Invited Speaker

MSc in Fintech - Politecnico di Milano & UCL, London UK

Causal Injection into Neural Networks

₩ Nov 2021

Oral Presentation

▼ XAI in Finance Workshop - 2021 ACM International Conference on AI in Finance - Virtual Event

Risk Scorecards with Machine Learning

Mov 2019

Poster Presentation

♀ Joint Conference of Bank of England & King's College - London, UK

Credit Risk Modelling: Data and Techniques Used in the UK Banking Industry

Invited Speaker

Onner Danmarks Nationalbank Conference 2019 - Copenhagen, DK

SERVICE

- AISTATS '23 (Top-Reviewer Award)
- BSKY at AAMAS '23 (Reviewer)
- AISTATS '22 (Reviewer)

- XAI-FIN at ICAIF '22 (Workshop co-organiser)
- XAI-FIN at ICAIF '21 (Reviewer)
- XAI Seminars Series @ Imperial (Co-organiser)

• ICML '22 (Reviewer)