

Gabriele La Malfa

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Work Experience

PhD in Safe & Trusted AI (Centre for Doctoral Training)	Oct. 2022 – Current
<i>Fairness in Multi-Agent Systems.</i>	<i>King's College London & Imperial College London, UK</i>
• Principal Supervisors: Prof. Elizabeth Black, Prof. Michael Luck, and Dr. Jie Zhang.	
Visiting at Nokia Bell Labs, Cambridge (UK)	Jul. 2025 – Current
<i>Social Dynamics group.</i>	<i>Cambridge</i>
• Principal Supervisors: Prof. Daniele Quercia, Dr. Lakmal Meegahapola.	
Research Assistant	Oct. 2020 – Aug. 2022
<i>Centre for Risk Studies, Judge Business School.</i>	<i>University of Cambridge, UK</i>
• Risk researcher and modeller in business, financial and cyber risk.	
• In collaboration with KIVU Consulting Inc. we published the paper ' Mitigating ransomware risk: determining optimal strategies for businesses. '	Mitigating ransomware risk: determining optimal strategies for businesses.
Quantitative Risk Officer	Jun. 2020 – Aug. 2020
<i>Deutsche Boerse AG</i>	<i>Luxembourg, Luxembourg</i>
• Financial and credit risk management.	
• Model implementation of securities lending products.	
Risk Management Internship	Jun. 2019 – May. 2020
<i>Deutsche Boerse AG</i>	<i>Frankfurt, Germany</i>
• Operational and business risk management.	

Education

EMLYon Business School	Feb. 2020 – Graduated
<i>MSc Quantitative Finance.</i>	<i>Paris, France</i>
University of Eastern Piedmont	Apr. 2017 – Graduated
<i>Master's Degree in Accounting, Business Administration and Consulting.</i>	<i>Novara, Italy</i>
University of Eastern Piedmont	Jul. 2014 – Graduated
<i>Bachelor's Degree in Accounting, Business Administration and Consulting.</i>	<i>Novara, Italy</i>

Publications

Large Language Models Miss the Multi-Agent Mark.
NeurIPS 2025, Position Paper Track
Gabriele La Malfa , Emanuele La Malfa, Samuele Marro, Jie M. Zhang, Elizabeth Black, Michael Luck, Philip Torr, Michael Wooldridge
Fairness Aware Reinforcement Learning via Proximal Policy Optimization.
AAAI Conference on Artificial Intelligence (AAAI-26), Main Technical Track
Gabriele La Malfa , Jie M. Zhang, Michael Luck, Elizabeth Black
Using Protected Attributes to Consider Fairness in Multi-Agent Systems.
ECAI 2024, AEQUITAS workshop
Gabriele La Malfa , Jie M. Zhang, Michael Luck, Elizabeth Black
Deep Neural Networks via Complex Network Theory: a Perspective.
IJCAI 2024, main track
Gabriele La Malfa , Emanuele La Malfa, Giuseppe Nicosia, Vito Latora

Teaching Experience

Artificial Intelligence	2024-2025 (HT)
<i>Practical</i>	<i>King's College London, UK</i>
Mathematics and Statistics for Artificial Intelligence	2024-2025 (HT)
<i>Small Group Tutorial</i>	<i>King's College London, UK</i>
Machine Learning	2023-2024 (HT)
<i>Practical and small group tutorial</i>	<i>King's College London, UK</i>
Logic and Knowledge Representation	2023-2024 (HT)
<i>Practical and small group tutorial</i>	<i>King's College London, UK</i>
Big Data Technologies	2023-2024 (HT)
<i>Practical</i>	<i>King's College London, UK</i>
Elementary Logic and Applications	2023-2024 (HT)
<i>Large group tutorial</i>	<i>King's College London, UK</i>
Artificial Intelligence	2023-2024 (HT)
<i>Practical</i>	<i>King's College London, UK</i>

LOD2020, LOD2021, LOD2022, LOD2023, LOD2025

Organizing Committee.

Lake District/Siena

IJCAI 2024 Student Volunteer

Student Volunteer.

Jeju Island, South Korea

Reviewer at AAAI

Academic Projects and Volunteering

Lunchtime Dialogues: Identity & Social Justice - Lead

2024-2025

Lunchtime dialogue series involving all faculties at King's College London.

Dialogues about Identity and Privilege - Lead

2023-2024

Lunchtime dialogue series in the Faculty of Natural, Mathematical and Engineering Sciences (NMES) at King's College London.

Ukrainian Global University - Interviewer

April-June 2023

I interviewed Ukrainian students who want to study in a partner university abroad.

The Kharkiv and Przemyśl Project

August 2022

I spent a week in Przemyśl (Poland) as a volunteer to help refugees who arrived (returned) from (to) Ukraine.

Ukrainian Global University - Interviewer

June-May 2022

I interviewed a dozen prospective undergraduate Ukrainian students who want to study in a partner university abroad.

Cambridge University Amnesty International (CUAI) - Executive Committee Member

Oct-Mar 2021

Executive committee campaigns: W4R (Write for Rights), Stop Killer Robots, general human rights campaigns.

Eutanasia Legale - Volunteer

July 2021

I have collected signatures for a referendum to decriminalize euthanasia. The overall campaign gathered 1.2 million valid signatures.

Centro Gazza Ladra - Volunteer

2018

Volunteering, projects organisation and crowdfunding oriented to involve people with physical and mental impairments in our society.

GitHub Repositories

Fair-PPO

Fairness Aware Reinforcement Learning via Proximal Policy Optimization.

HospitalSim

Reinforcement Learning Environment: Simulation of a hospital daily routine.