Ivan Majić

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EDUCATION

University College London — London, UK
PhD Applied Mathematics — Oct 2024-Present
- Optimal Transport and Reinforcement Learning

University College London — London, UK
MSc Mathematical Modelling **(Distinction)** — Sep 2023-Sep 2024
- Relevant modules: Quantitative and Computational Finance, Operational Research and its Applications, Frontiers in Mathematical Modelling and Advanced Modelling Mathematical Techniques.

University College London — London, UK
BSc Mathematics **(First Class Hons)** — Sep 2020-Jul 2023
- Relevant modules: Machine Learning for Domain Specialists, Programming in Python, Probability & Statistics, Applied Stochastic Methods.

Oswestry School — Oswestry, UK
A-levels — Sep 2018-Aug 2020
- Mathematics (A*), Further Mathematics (A*), Physics (A*).
- Selected for the prestigious HMC Scholarship out of thousands of students in 14 countries in Central and Eastern Europe.

EXPERIENCE

University College London — London, UK
Teaching Assistant — Oct 2024-Present
- Taught a weekly problem class in Financial Mathematics to a group of 100 students, fostering engagement through interactive activities like competitions and group challenges, increasing the student satisfaction rate by 50% from the previous year.

Lead Department Representative — Oct 2023-Sep 2024
- Elected by my peers to take on a leadership role in the development and enhancement of the programmes in our Department, after serving as a representative every year for the previous 3 years.
- Took part in designing a new MSc course as the sole student member of the departmental teaching committee.

PROJECTS

University College London — London, UK
MSc Project — May 2024-Sep 2024
- Utilised an interlinked Reinforcement Learning agent approach to the optimal control of batteries in a domestic setting, demonstrating that the approach can reduce costs by intelligently managing the batteries.
- Discovered ways of training multiple different agents in the same session, using the TF-agents library outside of its intended purpose.

Machine Learning Project — Mar 2023-April 2023
- Employed Pandas, NumPy, and machine learning techniques to clean up and interpret the data set containing gene expression for patients diagnosed with different tumours.
- Trained the model using Naive Bayes classifier and Logistic Regression and compared the effectiveness using cross-validation scores and confusion matrices.

SKILLS

Programming: Python, Matlab
Languages: Serbian - Native; English, Croatian - Fluent; German - Basic
Competencies: Microsoft Office Suite, LaTeX