OSCAR MOXON

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Education

2023 – Present — MSc. in Artificial Intelligence, **King's College London**, UK (1:1)
- Modules: *Pattern Recognition and Deep Learning, Data Mining, Agents and Multi-Agent Systems, AI Planning, Computer Vision, Optimisation Methods, Machine Learning*

2020 – 2023 — BSc. in Economics and Management Sciences, **University of Southampton**, UK — First Class 1:1
Recipient of Dean's Award 2022 & 2023 for Outstanding Attainment, mentioned in Graduate Honours
- Modules: *Applied Macroeconomics, Risk Management, Industrial Economics, International Trade, Development Economics, Mathematics for Economics*

Achievements

Global Top 10 Portfolio (of 980 teams), Bloomberg Trading Challenge (BTC)	*Fall 2022*
(x2) Deans Award for Outstanding Attainment	*Academic Yr. 2020 - 2023*
StabilityAI Researcher Sponsorship - CogX Conference	*Fall 2023*
10x Downing Street AI Hackathon: Winner	*Spring 2024*
3-Day-Startup, Barclays Eagle Labs: Winner	*Jan 2021 & 2022*
ECSS Pico Hackathon: Overall Winner	*Summer 2022*
Anthropic Hackathon: Nominated 2023	*Winter 2023*

Relevant Experience

Software Engineer, **Bselected,** London — *May 2023 – Present*
- Developing human-on-loop software for automated CV processing and deployed full-stack app through Azure Cloud.
- Enabled 5-10x reduction in labour required to process a CV, with a 20% quality improvement using LLM tooling.

Innovative Technology Intern, **BAE Systems**, London — *Easter 2023*
- Researched internal systems and developed proposal for centralised data infrastructure to improve decision making latency.

Research Student, **QuantX,** Southampton UK — *May – Nov 2022*
- Automated manual intraday trading through volatility analysis. Developed a program to rank indicator performance on time-series data and generate heatmaps for promising strategies. Culminated in Bloomberg Challenge Top 10 finish.

Summer Intern, **Level39 Accelerator**, London — *Summer 2022*
- Involved in onboarding investors and startups. Shadowed data scientists in early-stage AI ventures, learning to implement recommenders with PyTorch. Organized discussions with founders in the fintech incubator.

Summer Placement, **Canary Wharf Group**, London — *Summer 2018-22*
- Worked under board of directors incl. Head Architect and President Sir Iacobescu. Performed legal skyscraper "break-ins" to test security measures with Estate CyberSecurity Team. Produced reports for CFO on M&A and contributed to architectural projects.

Research

"Multi-Agent Debate Simulation," **Research Thesis**
Advisor – Dr. Yulan He (Turing Institute)
- Developing a multi-agent language system to augment the capability of collective agent swarms.
- Exploring the limitations of language agents to promote novel scientific research and inquiry argumentation dialogues.

O. J. Moxon, "*The Threat of Automation: An Economic Perspective," Dissertation Literature Review, Mar 16, 2023*. [Online].
- Performed an assessment of methods of predicting economic impact of Machine Learning on Full Automation of Labour.
- Proposed a general model for evaluating 'risk of automation' to furnish policymakers with more precise tools for navigating the capital benefits of technological change, ensuring equitable and effective redistribution strategies. 87%.

Skills

Programming	**Fluency**: Python **Familiarity**: C++, JavaScript, HTML, CSS, SQL, STATA, Ruby
Tools	Git, LaTeX, Scikit-Learn, Matplotlib, Pandas, NumPy, fastAI, PyTorch, Keras, MATLAB, OpenCV, XGBoost, Kaggle, TensorBoard, Hugging Face Transformers, Weka, Jekyll, Svelte, Docker, Flask, React
Mathematics	Statistics, Calculus, Linear Algebra, Game Theory, Coding Theory, Statistical Learning, Optimisation Methods
Algorithmics	Various Search and Ranking Strategies (Greedy, Heuristic, Genetic Algorithms, A* and WA* Search, Recommenders). Learning methods (SVM, Random Forest, Classification, Regression, Clustering, PCA, Boosting, Eval and Validate).
Models	Transformer Models, Generative Adversarial Networks, Policy Iteration and Q-Learning, RNNs, CNNs.