

Joseph Trevorrow

PhD Student, University of Bristol Interactive Artificial Intelligence CDT

PROFILE

Motivated PhD student excited to jump into meaningful research. Experience in HPC, Python for reinforcement learning and NLP applications. Using popular state of the art libraries such as Torch and Pandas to complete work. strong analytical and problem-solving skills developed through the creation of ANNs which were used in competition against peers. Undergraduate dissertation focused on the topic of Multi-Agent Reinforcement Learning.

EXPERIENCE

Programmer, ALT Group Ltd; Leicester — 2023-2023 (3 Months)

- Programmer in small business developing relevant AI applications for enterprise use. Gave guidance and decision making skills considering relevant Large Language Models (LLMs) during the product planning phase using rapid prototyping.
- Gained significant understanding into the needs of industry, from small business to enterprise systems to give a full rounded perspective of business technology.

EDUCATION

University of Bristol, Bristol, UK — PhD. Interactive Artificial Intelligence, 2023-2027

- Foundation year student covering important foundational knowledge such as Data/Knowledge-Driven AI, Human Computer Interaction and Responsible AI. Preparing for PhD proper with initial literature review.
- Team project exploring the use of LLMs helping teach clients Cognitive Behavioural Therapy (CBT) whilst waiting for human therapies

University of Liverpool, Liverpool, UK — First Class BSc Hons. Computer Science, 2020-2023

- Dissertation focused on Multi Agent Reinforcement Learning (MARL), researching benefits of value function factorisation found in action-value MARL within actor-critic methods.
- Broad understanding of AI through modules such as bio-computation, multi-agent systems and vision. Backbone knowledge through advanced AI module, studied specifically CNNs. Enforced theory through practical deployment skills

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in high-performance computing. Foundational computing skills in C & memory management, complexity of algorithms, and functional programming.

- Student course representative, discussing future teaching in department, altering modules and changing syllabus. Written and oral communication skills through negotiating for changes with staff, discussing feedback with peers.

Harington School, Oakham, UK - A Levels in Maths (A), Computer Science (A*), Geography (A*), 2018-2020

Uppingham Community College, Uppingham, UK - 11 GCSEs between grades 7-9, 2016-2018

SKILLS

Rapid Prototyping, Analytical Skills, Technical writing, Communication, Problem Solving, C, C++, Python, Multi-Agent Systems, Computer Vision, Reinforcement Learning (RL), Natural Language Processing (NLP), Business Technology, Deep Learning