

# KONSTANTINOS MITSIDES

London, United Kingdom | [k.mitsides@cytanet.com.cy](mailto:k.mitsides@cytanet.com.cy) | [LinkedIn](#) | [GitHub](#) | [Website](#)

## Education

<b>PhD Artificial Intelligence, Imperial College London</b>	<b>10/2024 - Present</b>
<b>Concentrations:</b> Open-Endedness, Reinforcement Learning, Evolutionary Algorithms	
<b>Supervisor:</b> Prof Antoine Cully	
<b>Scholarships:</b> EPSRC DTP Studentship, Scholarship Foundation of the Cyprus Government	
<b>MSc Artificial Intelligence, Imperial College London</b>	<b>10/2023 - 10/2024</b>
<b>Final Grade:</b> Distinction	
<b>Awards:</b> "Distinguished" status for MSc thesis (Grade: 87%)	
<b>BSc Mathematics, University College London (UCL)</b>	<b>09/2020 - 09/2023</b>
<b>Final Grade:</b> First Class Honours	
<b>Scholarships:</b> Academic Excellence Scholarship - Scholarship Foundation of the Cyprus Government	
<b>Relevant Courses:</b> Probability & Statistics, Stochastic Processes, Algebra, Mathematical Methods, Analysis, Graph Theory	
<b>The English School Nicosia, Cyprus</b>	<b>09/2012 - 06/2019</b>
<b>A-Levels:</b> Further Mathematics (A*), Mathematics (A*), Physics (A*), Greek (A)	
<b>Awards:</b> Highest Mark in Europe and Highest Mark in Cyprus in A-Level further Maths and Maths respectively	

## Publications

- K. Mitsides**, M. Faldor, A. Cully - [Dreaming in Code for Curriculum Learning in Open-Ended Worlds](#), arXiv preprint, 2026
- K. Mitsides**, M. Faldor, A. Cully - [Scaling Policy Gradient Quality-Diversity with Massive Parallelization via Behavioral Variations](#) at GECCO 2025

## Projects

<b>Large Language Models &amp; Backend Software Engineering – ML Software Engineering MSc Group Project</b>	<b>01/2024 - 10/2024</b>
- Developed an AI-powered quiz system with abstractive and extractive LLMs to evaluate comprehension in speed reading.	<a href="#">LearnMore</a>
- Implemented a novel LLM system to dynamically adjust reading speeds by assessing text complexity in real-time.	
<b>Deep Learning &amp; Deep Graph-Based Learning - MSc Projects</b>	
- Developed a ResNet-50 based pipeline for a 20-class ImageNet subset, achieving 91.30% accuracy on the test set.	
- Engineered pipelines using VAE for MNIST and DCGAN for CIFAR-10 image generation.	
- Developed a unique generative GNN-based pipeline for brain graph super-resolution.	<a href="#">LearnMore</a>

## Work Experience / Competitions

<b>Graduate Teaching Assistant – Imperial College London</b>	<b>01/2025 - Present</b>
- Mentoring students through the end-to-end lifecycle of various Machine Learning projects.	
- Co-supervised an MSc thesis in Reinforcement Learning and Evolutionary Computation, which achieved Distinction.	
- Leading tutorial sessions and grading assignments in Deep Learning, Natural Language Processing, Python modules.	
<b>The Data Open Competition Europe 2021 / Ready Trader Go – Citadel / Optiver</b>	<b>10/2021 - 11/2021</b>
- Performed sentiment analysis, uncovering a trend of higher popularity for headlines with negatively charged emotional content.	
- Developed a profitable trading bot to enhance liquidity in a trading book, leveraging historical data analysis.	
<b>Staff Sergeant - National Guard of Cyprus</b>	<b>07/2019 - 09/2020</b>
- Led a team of 30 soldiers from diverse backgrounds, planning their daily army service schedules and days off.	
- Dealt with unexpected circumstances and made quick decisions to develop workarounds.	
- Attended weekly meetings with military officers to share ideas on improving the camp's operations.	
<b>Chief Engineer – F1 in Schools World Finals</b>	<b>09/2017 - 09/2018</b>
- Designed and produced a miniature car via Solidworks CAD, advancing to World Finals as Cyprus' second-fastest.	

## Additional Information

**Technical Skills:** Python (JAX, PyTorch, Hugging Face, vLLM), Git, Linux, Docker, Apptainer, WandB

**Math Competitions:** Top 3 Places in National Math Olympiads & Kangaroo Math Competitions

**Sports / Music:** Multiple prizes, medals and national records in swimming / Grade 8 in Piano and Theory of Music

**Languages:** English (fluent), Greek (native)