

# KONSTANTINOS MITSIDES

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## Education

### PhD Artificial Intelligence, Imperial College London

10/2024 - Present

**Concentrations:** Deep Reinforcement Learning, Evolutionary Algorithms

**Scholarships:** EPSRC DTP Studentship

### MSc Artificial Intelligence, Imperial College London

10/2023 - 10/2024

**Final Grade:** Distinction

**Awards:** "Distinguished" status for MSc thesis (Grade: 87%)

### BSc Mathematics, University College London (UCL)

09/2020 - 09/2023

**Final Grade:** First Class Honours

**Scholarships:** Academic Excellence Scholarship - Scholarship Foundation of the Cyprus Government

**Relevant Courses:** Probability & Statistics, Stochastic Processes, Algebra, Mathematical Methods, Analysis, Graph Theory

### The English School Nicosia, Cyprus

09/2012 - 06/2019

**A-Levels:** Further Mathematics (A\*), Mathematics (A\*), Physics (A\*), Greek (A)

**Awards:** Highest Mark in Europe and Highest Mark in Cyprus in A-Level further Maths and Maths respectively

## Conference Publications

K. Mitsides, M. Faldor, A. Cully - [Scaling Policy Gradient Quality-Diversity with Massive Parallelization via Behavioral Variations](#) at GECCO 2025

## Projects

01/2024 - 10/2024

### Large Language Models & Backend Software Engineering – ML Software Engineering MSc Group Project

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- Developed an AI-powered quiz system with abstractive and extractive LLMs to evaluate comprehension in speed reading.
- Implemented a novel LLM system to dynamically adjust reading speeds by assessing text complexity in real-time.

### Deep Learning & Deep Graph-Based Learning - MSc Projects

- 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.

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## Work Experience / Competitions

### Graduate Teaching Assistant – Imperial College London

01/2025 - Present

- Led tutorial sessions and graded assignments in the Deep Learning and Natural Language Processing modules.

### The Data Open Competition Europe 2021 / Ready Trader Go – Citadel / Optiver

10/2021 - 11/2021

- 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.

### Staff Sergeant - National Guard of Cyprus

07/2019 - 09/2020

- 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.

### Chief Engineer – F1 in Schools World Finals

09/2017 - 09/2018

- Designed and produced a miniature car via Solidworks CAD, advancing to World Finals as Cyprus' second-fastest.

## Additional Information

**Programming Language:** Python

**Software Tools & Libraries:** JAX, PyTorch, BRAX, Scikit-learn, NumPy, Pandas, Matplotlib, Flask, QDAX

**Online Courses:** Machine Learning Specialisation - Stanford Online, Data Structures & Algorithms - Udemy

**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)