Andreas Floros

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Education

Imperial College London – London, UK — Sep 2023 – Present
PhD, Communications and Signal Processing Group
- Research interests: generative models, representation learning, model-based deep learning, inverse problems.
- Awarded **Full EEE PhD Scholarship**.

Imperial College London – London, UK — Sep 2018 – Aug 2022
MEng, Electrical and Electronic Engineering
- Signal processing, machine learning. **First-Class Honours** in all years of study. Thesis – GitHub, Paper.
- Awarded the **Dean's List** for academic excellence (top 10%).

Experience

Imperial College London – London, UK — Jan 2024 – Present
Graduate Teaching Assistant
- Teaching linear algebra, multivariate calculus, harmonic analysis and supervising final year MSc projects.

Meta – London, UK — Nov 2022 – Feb 2023
Software Engineer
- Contributions to internal and **open source** software: AI for AR, PyTorch (torchaudio, torcheval).

Imperial College London – London, UK — Jun 2020 – Jul 2020
Undergraduate Researcher
- "Autonomous Vehicle Navigation based on Machine Learning", focusing on real-time object detection.

Selected Projects

Embedded Machine Learning Ecosystem – GitHub, Demo — Apr 2021 – Jun 2021
- Led a team to create an embedded machine learning app for deploying audio classifiers to microcontrollers.
- Project presented to a technical and academic audience and **promoted on official Arm channels**.

ISSIE Frontend – GitHub — Jan 2021 – Mar 2021
- Worked in a team to rewrite the drawing library of ISSIE in a functional style, according to Elmish MVU.

Publications

D. You, A. Floros, et al., INDigo: An INN-Guided Probabilistic Diffusion Algorithm for Inverse Problems, 2023 IEEE 25th International Workshop on Multimedia Signal Processing (MMSP) [**Best Paper Award**].

Awards

Best Paper Award – IEEE MMSP — 2023
- In recognition of INDigo: An INN-Guided Probabilistic Diffusion Algorithm for Inverse Problems.

EEE Departmental Scholarship – Imperial College London — 2023
- Awarded full PhD scholarship and funding for research in computer vision.

Dean's List for Academic Excellence – Imperial College London — 2019, 2021
- The Dean's List recognises students whose overall performance is within the top 10% of their cohort.

EPSRC Vacation Bursary – Imperial College London — 2020
- Funding awarded for research in the area of autonomous vehicle navigation.

Best Community Hack (2nd Prize) – IC Hack 2020 — 2020
- IC Hack: the largest student-run hackathon in the UK. Awarded for WhatAMesh networks project.

Miscellaneous

- **Service**: Reviewer in MLSP 2024, ICECET 2024.
- **Programming languages**: Proficient in Python, C++; familiar with F#, JavaScript, TypeScript, MATLAB, Julia; previously used Rust, Arduino, ARM Assembly.
- **Tools and technologies**: Experienced with Git, Electron, Elmish, Qt, LaTeX; familiar with Mercurial, Buck, HTML, CSS, React; exposed to Django, Linux.