Andreas Floros

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EDUCATION

Imperial College London – London, UK   Sep 2023 – Now
PhD, Communications and Signal Processing Group
- Research in generative models, representation learning, model-based deep learning and inverse problems.
- **Awarded full PhD Scholarship and funding** by the Electrical Engineering department.

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.
- **Placed in the Dean's List** for academic excellence (performance within top 10% of cohort).

EXPERIENCE

Imperial College London – London, UK   Jan 2024 – Now
Graduate Teaching Assistant
- Teaching linear algebra, multivariate calculus, transform theory, C++ and supervising Master's projects.

Meta – London, UK   Nov 2022 – Feb 2023
Software Engineer
- Contributions to internal and open source software: web, AI for AR, PyTorch.

Arm / Imperial College London – London, UK   Apr 2021 – Jun 2021
Industry Collaboration – GitHub, Demo
- Led a team to create a ML app for developing audio classifiers and deploying them to embedded devices.

Imperial College London – London, UK   Jun 2020 – Jul 2020
Undergraduate Researcher
- **Awarded EPSRC funding** for research in autonomous vehicle navigation based on machine learning.

SELECTED PUBLICATIONS

Floros, et al., On the Anisotropy of Score-Based Generative Models   2025

Papadopoulos, ..., Floros, et al., Expert Clustering & Knowledge Transfer for WSI Classification   2025
IEEE 23rd International Symposium on Biomedical Imaging (ISBI) & EurIPS Medical Imaging Workshop.

Giakoumoglou, Floros, et al., Training Self-Supervised ViTs with Synthetic Data & Negatives   2025
ICCV Workshop on Learning with Limited Resources & CVPR Second Workshop on Visual Concepts.

Floros, et al., Trustworthy Image Super-Resolution via Generative Pseudoinverse   2025
ICLR Workshop on Deep Generative Models in Machine Learning: Theory, Principle and Efficacy.

Floros, et al., Leveraging Temporal Dynamics in Diffusion Trajectories for Origin Attribution   2024
39th Annual Conference on Neural Information Processing Systems (NeurIPS) [**Scholar Award**].

You, 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**].

SELECTED AWARDS

Scholar Award – **NeurIPS Foundation**: *Funding for presenting my research at NeurIPS.*   2025
Best Paper Award – **IEEE MMSP**: *In recognition of INDigo paper on inverse problems.*   2023
EEE Departmental Scholarship – **Imperial**: *Awarded full PhD scholarship and funding.*   2023
Dean's List for Academic Excellence – **Imperial**: *Overall performance within the top 10%.*   2019, 2021
EPSRC Vacation Bursary – **Imperial**: *For research in the area of autonomous vehicle navigation.*   2020
Best Community Hack (2nd Prize) – **IC Hack**: *Largest European student hackathon. Project – GitHub.*   2020

MISCELLANEOUS

Invited talks: Generative AI Seminar – Creative Computing Institute, UAL (Nov 2025).
Service: AAAI 26 Program Committee. Reviewer for ICML / ICLR / ECCV / CVPR 26, MLSP 24 – 25.
Open source: Contributions in PyTorch core, vision, audio and eval repositories.
Programming languages: Python, C++, F#, JavaScript, MATLAB, Julia, Rust, Hack, ARM Assembly.
Tools and technologies: High-Performance Computing, Linux, Git, Electron, Mercurial, Buck, Django.