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PhD student in ML at the University of Edinburgh.

Data scientist interested in social good. Check out my data science projects on my [portfolio](#).

Campaigner for better access to the outdoors for everyone. Speak to me in !

EDUCATION

'23-'27 PhD, School of Engineering, University of Edinburgh

My research focuses on unsupervised algorithms for solving inverse imaging problems. These problems appear in many critical imaging scenarios: accelerating medical imaging, higher resolution Earth observation, electron microscopy. We rarely have ground truth in the real world (how do we know what a black hole is supposed to look like before ever imaging a black hole?) motivating the need for provable unsupervised techniques.

'18-'22 MEng Information & Computer Engineering, University of Cambridge Distinction (first class)

PROFESSIONAL EXPERIENCE

Artificial Intelligence Engineer

Kainos, Birmingham (08/'22-)

- Led development of a security analysis tool using graph data science for Workday.
- Curated internal MLOps and CI/CD best practices with Azure Machine Learning and DevOps.
- Developed, deployed and user-tested a geospatial data analysis tool for DVSA in an Agile team.

Data Science Consultant Intern [\[blog\]](#)

Data Reply UK, London (05-07/'21)

RESEARCH EXPERIENCE

[\[thesis\]](#) Master's research in physics-informed ML. "Dynamic latent spaces with statistical finite elements". 2022.

[\[paper\]](#) With Alan Turing Institute. J. Walsh, O. Kesa, A. Wang, M. Ilas, P. O'Hara, O. Giles, N. Dhir, M. Girolami and T. Damoulas, "Near Real-Time Social Distance Estimation in London", **The Computer Journal**, 2023. [\[press\]](#) [\[blog\]](#)

[\[paper\]](#) With CentraleSupélec. P. Houdouin, A. Wang, M. Jonckheere and F. Pascal, "Robust Classification with Flexible Discriminant Analysis in Heterogeneous Data," 2022 IEEE International Conference on Acoustics, Speech and Signal Processing (**ICASSP**), 2022. [\[blog\]](#)

SKILLS

Languages: English (native), French (CEFR C2 – fluent), Mandarin (native), German (CEFR B2 – working proficiency)

Certifications: [certified on AWS](#), [certified Azure](#) and [Azure AI](#), [SQL for Data Science](#), [Neo4j Graph Data Scientist](#), [Green Software Practitioner](#)

Software: Agile development, Git, GitHub CI/CD, Docker, Unix, MLFlow, [wandb](#), Tableau, MATLAB, C++

Python: [pandas](#), [matplotlib](#), OpenCV, PyTorch, [scikit-learn](#), [tensorflow](#) basics, [seaborn](#), [plotly](#), [nlTK](#), [jupyter](#), [networkx](#), [streamlit](#). Clean code, functional programming and test-driven dev.

Geospatial: QGIS, PostGIS, OSM Overpass API, Google Maps API, [geopandas](#), [folium](#), [shapely](#).