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Derby/Birmingham, UK 

Data scientist and researcher passionate about using ML and data analytics to improve human lives and environmental sustainability. Check out my data science projects on my [portfolio](#).

Campaigner for better access to the outdoors for everyone. Language enthusiast and musician. Speak to me in     !

EDUCATION

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

- Final year topics: Machine Learning, Deep Learning, Computational Statistics, Computer Systems, Computational Neuroscience, Advanced Robotics, Management. Top of college cohort (size 9).
- Years 1-3: first class; topics included signal processing, control theory, information theory, electrical mechanical, structural, thermofluids and materials engineering.

'11-'18: The Manchester Grammar School

PROFESSIONAL EXPERIENCE

AI Engineer *Kainos, Birmingham (08/'22-)*

- Developing internal MLOps expertise and AI as a Service on Microsoft Azure.

Data Science Consultant Intern [\[blog\]](#) AWS, NLP, PyTorch *Data Reply UK, London (05-07/'21)*

- Developed MVP for an NLP solution, which has been made public on AWS Marketplace.

Research Internship [\[blog\]](#) Python, scikit-learn *CentraleSupélec, Paris (03/'21-now)*

Data Science Researcher [\[article\]](#) [\[blog\]](#) Camera Calibration, OpenCV *Alan Turing Institute (03-06/'20)*

- Contributed to ML algorithm used widely by London authorities during COVID lockdowns.

Embedded Systems Intern [\[blog\]](#) Human-Machine-Interaction, VR, Unity *Dexta Robotics, Shenzhen (07-09/'19)*

RESEARCH EXPERIENCE

[\[link\]](#) **Master's research in physics-informed ML.** "Dynamic latent spaces with statistical finite elements". 2022. Results from this work contributed to the [team's paper](#) submitted to ICML.

[\[link\]](#) **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," arXiv:2012.07751 [cs.CY], Dec. 2020.

Contribution: development, experimentation and write-up of camera calibration algorithms.

[\[link\]](#) **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), pp. 5717-5721. 2022. **Contribution:** development, experimentation and write-up of algorithm, publication of code-base.

INDUSTRIAL SKILLS

Coding: Python (numpy, pandas, OpenCV, PyTorch, scikit-learn, TensorFlow basics, seaborn, ggplot2, nltk, jupyter), [SQL for Data Science](#), MATLAB, Unity C#, C++, Android Kotlin, Java basics

Tools: [certified on AWS](#), [certified Azure](#) and [Azure AI](#), Git, MLFlow, Agile development, Tableau, Docker, Unix.