CURRICULUM VITAE — ANDREW WANG

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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 ICLR.

[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.