CURRICULUM VITAE | ANDREW WANG (he/him)

Speak to me in 🇬🇧🇫🇷🇨🇳!

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WORK

Chief Technical Officer & Co-Founder — *Blur Labs, Paris, France (07/'25-now)*

- Building foundation models for image reconstruction to power imaging devices across science, medicine and industry.
- Incubated until 07/'26 at Inria Startup Studio, Paris Saclay, France.
- Incorporated 09/'26 in Paris.

Data Scientist / AI Engineer — *Kainos, Birmingham, UK (07/'22-09/'23)*

- Clients: Workday, DVSA

EDUCATION

'23-'26 PhD, School of Engineering, University of Edinburgh

- Designing deep learning algorithms for solving inverse imaging problems where we rarely have ground truth, such as accelerating medical imaging or higher resolution Earth observation. Supervised by Prof. Mike Davies.
- Interests: Computer vision, deep learning, inverse problems, medical imaging, Earth observation

'18-'22 Undergraduate + MEng Engineering, University of Cambridge — *Distinction (first class)*

RESEARCH PUBLICATIONS

[paper] Journal paper. A. Wang, S. McDonagh, M. Davies, *"Benchmarking Self-Supervised Learning Methods for Accelerated MRI Reconstruction"*, Machine Learning for Biomedical Imaging, 2026.

[paper] Conference paper. A. Wang, M. Davies, *"Perspective-Equivariant Fine-tuning for Multispectral Demosaicing without Ground Truth"*, Proceedings of the IEEE/CVF Conference on Computer Vision & Pattern Recognition (CVPR) Workshops, 2026, Denver, USA.

[paper] Journal paper. J. Tachella, M. Terris, S. Hurault, A. Wang et al., *"DeepInverse: A Python package for solving imaging inverse problems with deep learning"*, Journal of Open Source Software, 2025.

[paper] Conference paper. A. Wang, M. Davies, *"Fully Unsupervised Dynamic MRI Reconstruction via Diffeo-Temporal Equivariance"*, IEEE International Symposium on Biomedical Imaging, 2025, Houston, USA. [Oral: top 18% of papers] [blog] [poster at IPTA 2024, Glasgow, 2024]

[paper] Conference paper. A. Wang, M. Davies, *"Perspective-Equivariance for Unsupervised Imaging with Camera Geometry"*, European Conference on Computer Vision (ECCV) TradiCV Workshop (Oral), Milan, 2024. [blog] [poster at Geometric Deep Learning workshop, University of Cambridge, 2024]

[thesis] Master's thesis in physics-informed ML. *"Dynamic latent spaces with statistical finite elements"*, 2022.

[paper] Internship at Alan Turing Institute. J. Walsh, O. Kesa, A. Wang et al., *"Near Real-Time Social Distance Estimation in London"*, The Computer Journal, 2023. Winner of OUP Wilkes Award 2024. [press] [press2] [blog]

[paper] Internship at CentraleSupélec. P. Houdouin, A. Wang et al., *"Robust Classification with Flexible Discriminant Ana-lysis in Heterogeneous Data"*, IEEE International Conference on Acoustics, Speech and Signal Processing, 2022. [blog]

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TUTORIALS & INVITED SPEAKING

[website] Keynote. *"Imaging as the frontier of vision and physical AI",* 2nd Workshop on Smart Cameras for Physical AI, British Machine Vision Conference (BMVC), 2026.

[website] Tutorial. *"DeepInverse: a hands-on tutorial for medical image reconstruction with AI"*, 29th International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), Strasbourg, France, 2026.

[website] Invited speaker. *"DeepInverse: a hands-on tutorial for medical image reconstruction with AI"*, Workshop on Imaging inverse problems and generative models, Edinburgh, 2026.

[website] Invited speaker. *"Get started with DeepInverse for image reconstruction with deep learning"*, Symposium on AI and Reconstruction for Biomedical Imaging, London Institute of Healthcare Engineering, London, Mar 2026.

[website] Tutorial. *"DeepInverse: a PyTorch library for imaging with deep learning"*, ISBI, Houston, USA, Apr 2025.

[web, vid] Invited seminar. *"Learning to solve imaging inverse problems without ground truth"*, IFML, UT Austin, Apr 2025.

[video] Seminar. *"Equivariant imaging with groups of real-world transforms"*, Maxwell Inst., Edinburgh, Feb 2025.

OTHER RESEARCH ACTIVITIES

[website] Open-source. Lead developer of *"DeepInverse: a PyTorch library for imaging inverse problems with deep learning"*, 2024-current. 7000 monthly downloads. Regularly deliver international tutorials & hackathons. [blog]

[course] Teaching assistant. *Machine Learning Practical* Year 4 course at the School of Informatics at Edinburgh.

OTHER WORK

Non-profit advocacy: I am a director on the board of a national charity, founded and run a national grassroots activism community, and regularly write and speak at national festivals. [about]

SKILLS

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

Certifications: certified on AWS, certified Azure and Azure AI, SQL for Data Science, Neo4j Graph Data Scientist

Software: Agile dev, GitHub CI/CD, Docker, Unix, MLFlow, wandb, Tableau, TypeScript, MATLAB, C++, pandas, matplotlib, OpenCV, PyTorch, scikit-learn, jupyter, networkx, streamlit, QGIS, PostGIS, OS MasterMap, geopandas