

Haolin Wang

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EDUCATION

PhD Computer Science (Part-time), University of Sheffield Jan. 24 – Jan. 27, UK

- **Wang, H.**, Liu, X., Jungbluth, A., Ramadan, A., Oliver, R., & Lu, H. (2025). Benchmarking Band Gap Prediction for Semiconductor Materials using Multimodal and Multi-Fidelity Data. AI for Accelerated Materials Design - ICLR 2025.

MSc Data Analytics, University of Sheffield (Distinction) Sep. 21 – Sept. 22, UK

Courses include: Machine Learning, Natural Language Processing, Data Science in R, Team Project

Dissertation: Hybrid Model of Ballistics through Symbolic Regression

BA Mathematics, University of Oxford. Pembroke College Sep. 18 – Jun. 21, UK

Courses include: Differential Equations (ODEs & PDEs), Fluid Dynamics, Multivariable Calculus, Mathematical Biology, Applied Probability, Numerical Analysis

WORK EXPERIENCE

AI Research Engineer, University of Sheffield Aug.23 – Now, UK

- Built a multi-fidelity driving simulation analysis pipeline, implementing performance metrics, automated data integration, and interpretable ML workflows to evaluate system stability under varying simulation configurations.
- Contributed to a scalable multi-fidelity modelling framework, implementing and optimising fusion modules to integrate low- and high-fidelity simulation data for high-dimensional tasks.
- Led the design and implementation of a multi-fidelity materials dataset and benchmarking platform, defining standardized data splits, building YAML-configurable training pipelines, automating evaluation workflows, and deploying a public leaderboard with GitHub and Hugging Face integration.

Business Analyst Intern, Amazon Sep. 22 – Mar. 23, UK

- Helped identify transportation network risks, improve operational effectiveness, and provide business insights. Developed automated Tableau, PowerBI and Quicksight dashboards from multiple and diverse data sources using technical tools such as S3 Redshift, ETL management, SQL queries and Python.
- Assisted with project-related activities including project planning and delivery management in terms of cutting expenses and increasing team productivity, building strategic decisions by breaking down problems via quantitative thinking and analysis. Provided a visualisation solution promptly and effectively to help stakeholders to make critical business decisions, helped the team in preventing annual losses of more than \$7M.
- Completed email automated task in Python, reduced the lead time, rendered the process more stable and scalable and saves about 50h each year during the peak season.

Data Analyst Intern, Towers Consulting Aug. 21 – Oct. 21, UK

- Cleansed and analysed industry data to help industry clients understand market trends and pinpoint business development opportunities. Assisted in the creation of a business case based on the analysis.
- Using multiple data sources, designed and created an automated operational dashboard using Tableau, to provide weekly operational updates to the client's leadership team.

Assistant Consultant, Frost & Sullivan Jul. 21 – Sep. 21, CN

- Conducted comprehensive market research on multiple emerging telecommunications, media & technology industries, focusing on industry trends, innovation, and growth opportunities.
- Gathered and conducted commercial analysis and competitor analysis for tech industry clients. Compiled report for IPO Support and Due Diligence.

Algorithm & AI Engineer Intern, Shanjing Intelligent (Beijing) Technology Dec. 20 – Feb. 21, CN

- Built a Profit Optimisation ML model using Hill Climbing Algorithm in Python and Python Libraries to optimise Return on Investment (ROI) for a leading confectionery food manufacturer.
- Predicted profit based on pricing recommendations and multiple commercial scenarios. Assisted the creation of client-facing presentations, summarising model outputs and recommending pricing strategies.

Teaching Assistant, CamExpress Educational Consultancy Jun. 19 – Aug. 19, CN

- Consulted students on their university application strategies and their personal statements.
- Acted as intermediary between students and expat teachers, helping new students to settle in the school and building relationships with their teachers.

SKILLS

Languages: English (professional proficiency), Chinese (native)

Technical Skills: Python (PyTorch, TensorFlow, scikit-learn), GPU training (CUDA), SQL, YAML-based configuration, Git, Linux, Bash scripting, HPC (SLURM)
BI tools (QuickSight, Tableau, PowerBI)