

# FREDERICO WIESER

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## WORK EXPERIENCE

### Research Intern (*PyTorch, JAX*)

*Huawei Technologies Research & Development*

London, UK  
Feb 2025 - Present

- Working with Noah Ark's Neuromorphic Computing group on developing Transformer variants using episodic memory, with Prof. Jun Wang and Dr. Zafeirios Fountas

### Software Developer (Backend Content) (*Python, SQL, NoSQL, JavaScript, Linux*) *Playtech*

London, UK  
Jan 2023 - Sep 2024

- Developed microservices and applications serving real-time data to millions of global users in an event-based trading system, for major sports betting companies (e.g. Paddy Power, Ladbrokes).
- Designed and implemented an asynchronous bet-building service combining multiple statistical pricing models to create new markets, with an increased average return rate of 80%. (*C, Cython*)
- Spearheaded new technical documentation standards across 3 teams to help onboard and mentor new team members, also conducting their interviews.

### Systems Engineer (R&D) (*Python, SQL, Linux, C, Google Cloud Platform*) *NAAMA*

London, UK  
Jun 2021 - April 2022

- Conducted dermatological research experiments with high energy lasers in a private research lab, with the aim being to improve efficacy of experiments.
- Independently developed a service to automate KPI reporting for our systems using a chatbot hosted on GCP, saving employees  $\approx 10$  hours a month. (*LaTeX, NumPy, Matplotlib*)

## EDUCATION

### MSc Computational Statistics and Machine Learning (*PyTorch*) *University College London*

London, UK  
Sep 2024 - Sep 2025 (Expected)

- Developing expertise in deep learning, reinforcement learning, and probabilistic modelling, applied to high-dimensional data analysis.

### BSc Theoretical Physics (*Python, NumPy, SciPy, TensorFlow, Numba*) *University College London*

London, UK  
Sep 2018 - Aug 2022

- Programmed and analysed forest fire simulations, drawing inspiration from Conway's Game of Life and producing visualizations for a comprehensive final report.

## PROJECTS

### Contributor (Volunteer) (*Python, PyTorch, TensorFlow, JAX, NumPy*) *Unify (Open-Source Project)*

London, UK  
Jan 2024 - Jan 2025

- Contributed to the development of Ivy, a machine learning framework unifying others, like PyTorch and TensorFlow, enabling seamless model portability across platforms.
- Actively engage in academic paper reading groups to stay updated on the latest AI trends and research, with a particular focus on advancements in large language models.

## SKILLS

Programming Languages :	Python, C, C++, SQL, JavaScript, C#, Bash
Libraries & Frameworks :	PyTorch, TensorFlow, Django, scikit-learn, NumPy, SciPy, Boost
Tools & Software :	Microsoft Office, Linux, Jupyter, HTML/CSS, AWS, Azure, GCP, LaTeX, MongoDB, Kafka, Unity, Oracle
Languages :	English (Fluent), Portuguese (Fluent)
Certifications :	Machine Learning Specialisation (DeepLearning.AI) Deep Learning Specialisation (DeepLearning.AI)