Yezhou Wang

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PROFILE

PhD in Computational Neuroscience applying AI and data analytics to deliver actionable insights. Experienced in building scalable AI systems, deploying large language models, and driving projects from concept to real-world impact. Skilled in cross-functional collaboration, communication, mentoring, and problem-solving.

CORE COMPETENCIES

Selected skills applied in real-world projects involving pipelines, model deployment, and ML services

- **Machine Learning & AI**: Transformers, CNNs, RNNs, Foundation Models, Brain-Inspired AI
- **Tech Stack**: Python, NumPy, pandas, PyTorch, Docker, SQL, Shell, Git, AWS, A/B testing
- **Soft Skills**: Communication, cross-disciplinary teamwork, mentoring, project management

TECHNICAL PROJECTS

AI model and computer vision – PyTorch, FastAPI, Docker, NumPy

- Trained AI models for image recognition with 99% accuracy, reducing processing time by 90%.
- Integrated the model into standardized data pipeline, ensuring reproducibility with existing workflows
- Deployed the model as a scalable web service using FastAPI and Docker, cutting manual workload by 90% and improving operational efficiency

Face Recognition System – C#, OpenCV

- Designed a real-time verification system using classical computer vision and ML classification

PROFESSIONAL EXPERIENCE

Doctoral Researcher, McGill University, Montreal, Canada   09/2020-present
- Led projects on the human brain, applying statistical analysis and computational modeling
- Developed AI tools for large-scale image quality control and predictive modeling of complex systems
- Applied advanced statistical modeling to analyze and predict relationships in high-dimensional data
- Published 13 peer-reviewed papers · Supervised 10+ trainees · Secured $200K+ research funding

Data Scientist Intern, Max Planck Institute, Leipzig, Germany   04/2024-07/2024
- Applied machine learning models to analyze neural signal data and predict cognitive states
- Designed interactive dashboards and performed exploratory data analysis to uncover key insights

Data Scientist Intern, University of Cambridge, Cambridge, UK   07/2022-09/2022
- Analyzed large datasets and created visual reports to support data-driven decision-making

EDUCATION

PhD, Computational Neuroscience, McGill University   09/2020-12/2025

M.Sc, Computer Application Technology, Beijing Normal University   09/2017-06/2020
- Outstanding Master's Graduate in Beijing (2 awarded per year)

B.Eng, Intelligent Science Graduated top of class (1/50) Hebei University of Technology   09/2013-06/2017

LEADERSHIP EXPERIENCE

President, McGill Chinese Graduate Student Association, McGill University   06/2023-12/2025
- Organized large academic/cultural events; led negotiations & cross-department coordination

PUBLICATIONS

13 peer-reviewed publications, 380+ citations, available on Google Scholar