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, GenAI
- **Tech Stack**: Python, PyTorch, NumPy, pandas, SQL, AWS, Docker, Git, Shell, A/B testing
- **Soft Skills**: Communication, cross-disciplinary teamwork, mentoring, project management

TECHNICAL PROJECTS

Deep Learning Integration for Scientific Software (DANSE) – Python, PyTorch, Data Pipelines

- Applied deep learning to production software, automating complex tasks and improving robustness
- Deployed research models into reliable production pipelines for real-world applications

AI Model and Computer Vision – PyTorch, FastAPI, Docker, NumPy

- Trained AI models for image recognition with high accuracy, reducing processing time by 90%
- Integrated the model into standardized data pipeline, ensuring reproducibility with existing workflows

PROFESSIONAL EXPERIENCE

Data Science Intern, Doric Lenses Inc., Montreal, Canada   10/2025-present
- Accelerated neuroimaging pipeline processing using deep learning while maintaining data quality
- Benchmarked and validated pipeline performance, balancing runtime efficiency and analytical accuracy in real-world datasets

Doctoral Researcher, McGill University, Montreal, Canada   09/2020-11/2025
- 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
- Published 13 peer-reviewed papers · Supervised 10+ trainees · Secured $300K+ research funding

Visiting Researcher (Data Science), 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

Visiting Researcher, 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   09/2020-11/2025

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