

Zerui Wang

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Education

Concordia University <i>Electrical and Computer Engineering (PhD): Applied Machine Learning, Explainable AI</i>	May 2021 – Present Montreal, Canada
Technical University Dortmund <i>Process System Engineering(MSc): Modelling and Simulation</i>	Oct 2014 – Dec 2017 Dortmund, Germany
China University of Mining and Technology <i>Process Systems Engineering(BSc): Process Modelling and Design</i>	Sep 2010 – Jul 2014 Jiangsu, China

Research and Project Experience

Ph.D. Student <i>Concordia University</i> <ul style="list-style-type: none">Pioneering research initiatives in Explainable AI, striving to incorporate ethical considerations in AI development and application.Driving innovation in the field of Explainable AI by developing advanced Feature Contribution Explanation methodologies, enhancing transparency and interpretability of AI models.Designing and implementing a cloud-based XAI service framework offers explanations for external AI models, facilitating access to explainability tools for diverse users.	May, 2021 – Present Montréal, Canada
Developer <i>LLM Application Developer and Intern Supervisor at Intellipro Group</i> <ul style="list-style-type: none">Participated in AI development projects focusing on large language model integration, aimed at solving complex natural language processing problems.Involved in the design and development of several AI applications using state-of-the-art machine learning frameworks and models like Hugging Face and GPT-4.Built an AI-driven chatbot utilizing large language models and prompt engineering techniques to respond to common customer queries effectively, automating part of the customer service process.Developed a tool leveraging large language models and prompt engineering strategies to automate the generation of professional emails, pushing the AI's role in office automation tasks.Enhanced skills in remote collaboration, project management, and technical communication through active engagement with a variety of technical teams across different specialties.	Apr, 2023 – Oct, 2023 Remote Collaboration
Research Assistant <i>École Polytechnique, affiliés de Université de Montréal</i> <ul style="list-style-type: none">Performed advanced research in Computational Fluid Dynamics.Engaged in the design, modeling, and simulation phases of a Pyrolysis Industrial Project.	Sep, 2019 – Mar, 2021 Montréal, Quebec, Canada

Research Presentations

J. Huang*, Z. Wang*, D. Li, and Y. Liu, "The Analysis and Development of an XAI Process on Feature Contribution Explanation," in 2022 IEEE International Conference on Big Data (Big Data), Dec. 2022, pp. 5039–5048. doi: 10.1109/BigData55660.2022.10020313.

D. Li, Y. Liu, J. Huang, and Z. Wang, "A Trustworthy View on Explainable Artificial Intelligence Method Evaluation," Computer, vol. 56, no. 4, pp. 50–60, Apr. 2023, doi: 10.1109/MC.2022.3233806.

Z. Wang, J. Huang, A. Nguyen, D. Li, Y. Liu, "Design Explanation Microservices and Provenance: A Case Study of Explaining Computer Vision Cloud Service". Submitted