

Yaning(Jason) Xu

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PROFILE SUMMARY

- Master’s student in Computer Science at McMaster University specializing in Machine Learning and Human-Computer Interaction. Recipient of competitive research scholarships.
- Bachelor of Mathematics with a focus on Combinatorial Optimization; President’s Scholarship of Distinction.
- Experience in **Human-Centered AI, machine learning, model training, data analysis, UI/UX**.

SOFTWARE AND TECHNICAL SKILLS

- Languages: Python, JavaScript, HTML, CSS, LaTeX, R, C, SQL
- Software tools: React, Vite, Tableau, MS Excel, Figma
- Skills: Machine Learning; Model training; algorithm design; HCAI; UI/UX design; Operations Research.

EDUCATION

McMaster University
Master of Science – Computer Science MSc (thesis).

Hamilton, ON
Sept 2024 – Present

- Comp & Software **Graduate Scholarship, research scholarship** granted for outstanding research.
- **Thesis proposal:** Quantifying and Mitigating Effects of Filter Bubbles in Recommender System.
- Completed courses: Human-Centered Artificial Intelligence (A+); Information-Theoretic Methods in Trustworthy Machine Learning (A+); Foundations of Interactive Learning (A+).
- **First-author paper under review at CHI 2026:** STORYBLOCKS - Towards AI-Assisted Narrative Design for Data-Driven Storytelling.
 - Developed an interactive framework combining hierarchical layout generation, non-linear structuring, real-time feedback, and multi-agent architecture, allowing writers to explore complex ideas via logical reasoning

University of Waterloo
Bachelor of Mathematics

Waterloo, ON
Sep 2018 – Aug 2022

- Computational Mathematics, Honours, Combinatorics & Optimization, Joint Honours.
- **President’s Scholarship of Distinction** granted for outstanding academic performance.

WORK EXPERIENCE

McMaster University
Teaching Assistant – COMPSCI 2C03

Hamiton, Ontario
Sept 2025 – Present

- **Instructing 40+ students in class and leading discussions.** Topics include data structures, graph representations and algorithms, algorithmic design strategies, correctness and performance analysis.
- Prepare and present in-depth course slides for weekly tutorial sessions to guide students through practice problems and answer questions, developing strong **teaching, class management and problem-solving** skills.

Hengshui Hengchuang Engineering Material
Business Data Analyst

Hebei, China
Jun 2023 – Feb 2024

- Utilized advanced analytics with **Tableau** to conduct in-depth research and analysis on extensive datasets, optimizing pricing strategies for manufacturing materials.
- Developed dashboards and reports using **Python and excel**. Applied statistical methods and data visualization tools to identify customer patterns, industry trends, and correlations.