

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	Hamilton, ON
<i>Master of Science – Computer Science MSc (thesis).</i>	Sept 2024 – Present
<ul style="list-style-type: none">• 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.<ul style="list-style-type: none">○ 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	Waterloo, ON
<i>Bachelor of Mathematics</i>	Sep 2018 – Aug 2022
<ul style="list-style-type: none">• Computational Mathematics, Honours, Combinatorics & Optimization, Joint Honours.• President’s Scholarship of Distinction granted for outstanding academic performance.	

WORK EXPERIENCE

McMaster University	Hamiton, ON
<i>Teaching Assistant – COMPSCI 2C03</i>	Sept 2025 – Present
<ul style="list-style-type: none">• 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	Hebei, China
<i>Business Data Analyst</i>	Jun 2023 – Feb 2024
<ul style="list-style-type: none">• 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.	