



# PAN CHEN

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## RESEARCH INTERESTS

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AI for Science (scientific discoveries), LLM, Computational Creativity, Human-Computer Interaction

## EDUCATION

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**PhD Student in Computer Science**, University of Toronto 2023 - Present

- Supervisor: Dr. Alán Aspuru-Guzik
- Regular Committee Members: Dr. Nicholas Papernot, Dr. Michael Liut

**Summer School**, Carnegie Mellon University Jul 2023

- Mentors: Dr. John Stamper, Dr. Steven Moore

**Bachelor of Science in Computer Science and Statistics**, University of Toronto 2018 - 2022

- Research advisor: Dr. Joseph Jay Williams

## EXPERIENCE

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**Instructor** Jan 2025 - Present

Departments of Computer Science

*Toronto, Ontario*

- CSC148 (Introduction to Computer Science)
- CSC207 (Software Design)

**Research Assistant** Sep 2022 - Dec 2023

Dynamic Graphics Project Lab, University of Toronto

*Toronto, Ontario*

- Member of the team that won the XPRIIZE Digital Learning Challenge by using applied machine learning algorithms to improve the learning experience

**Research Scholar** May 2022 - Aug 2022

Data Sciences Institute

*Toronto, Ontario*

**Teaching Assistant** Sep 2021 - Dec 2024

Departments of Computer Science and Statistics, University of Toronto

*Toronto, Ontario*

**Software Developer Co-op** Jun 2020 - Jun 2021

Infrastructures for Information

*Toronto, Ontario*

## PROJECTS

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**Schema-Based In-Context Learning** Mimic the human ability to learn from abstractions to enhance scientific understanding.

**AIEForScience** A modern platform for data-driven experiments that adapt and improve over time by utilizing machine learning algorithms.

**Digital Learning Challenge by XPrize** Lead software developer & Machine Learning designer for the cross-platform infrastructure that supports both traditional and adaptive experiments and Machine Learning. We collaborated with CMU & UNC, and deployed our infrastructure in more than **25** courses. We are the grand winner of this XPRIIZE Digital Learning Challenge sponsored by IES. ([More](#))

**Voice Reflection System** Lead designer & developer of this online reflection system that allows students to reflect on course topics by talking. This system has been used by more than 500 students at the University of Toronto.