

Education

Cornell University
Master of Information Science

August 2024 – December 2025

The University of Sydney
Bachelor of Design Computing
GPA: 3.96

August 2021 – July 2024

Professional Experience

Beijing Dentsu Telephone Technology Development
Product Manager and Researcher

June 2023 – October 2023

- Designed and implemented an innovative methodology for updating dialogue robot corpora, enhancing natural language processing capabilities.
- Developed an automated system to recognize and process unstructured questions, perform in-depth analysis of answer logs, and identify the optimal answer corpus.
- Improved the accuracy and user experience of the "Smart Trick" robot by refining its response corpus through systematic comparisons and updates.

Chinese University of Hong Kong, Shenzhen
Intern

May 2022 – July 2022

- Conducted comprehensive literature reviews to analyze key algorithms, assess their strengths and limitations, and document findings effectively.
- Designed and implemented mathematical models associated with the reviewed algorithms using Python, demonstrating strong analytical and programming skills.

Research Experience

A Study on Audio-Video Technique for Early Autism Spectrum Disorder Detection

April 2023 – Present

- Under the guidance of the Institute of Accessibility Development at Tsinghua University, we developed audio and video technology to identify specific behaviors related to childhood autism
- Researched and developed AI based early screening and evaluation technology for ASD in children

Utilizing GPT-4 to Realize a Highly Intelligent and Emotional-Aware System

June 2023 – November 2023

- Overcame ITS's limitations in knowledge boundaries, interactive freedom, and emotional perception with advanced large-scale language models such as GPT-4 to promote a more intelligent, interactive, and emotionally aware education system

Publications and Patents

Publications

- Xiwen Zhang, 2019. Rescue of cognitive deficits in APP/PS1 mice by accelerating the aggregation of β -amyloid peptide, Green SCI ISSN: 1758-9193

Patents

- Zhang, Xiwen. 2023. Terminology dialogue robot corpus update method and system for natural language processing, Patent number: ZL 2023 1 1126174.8

Skills and Certifications

- Skills: Python, Java, JavaScript, HTML, CSS, Adobe After Effects, Adobe Illustrator, Adobe XD, Adobe Photoshop, Adobe InDesign, Blender
- Languages: English, Mandarin