

Yuanzhong Chen

✉ ychenlg@connect.ust.hk | 🌐 517adam.github.io | 🐙 github.com/517adam

EDUCATION

The Hong Kong University of Science and Technology (HKUST) <i>B.Sc. in Computer Science and Mathematics (Double Major)</i> • Cumulative GPA: 3.923 / 4.3 • Selected Coursework: Advanced Deep Learning Architecture (Postgrad level), Graph Neural Networks, Large Language Models Honors Probability.	Hong Kong, China Sep. 2023 – June 2027 (Expected)
École Polytechnique Fédérale de Lausanne (EPFL) <i>Exchange Student</i>	Lausanne, Switzerland Spring 2026 (Nominated)
Stanford University <i>International Honors Program (Summer Session)</i> • Coursework: Machine Learning (CS229), Design and Analysis of Algorithms (CS161) <i>Note: All courses listed in this CV with available grades are in the A range (A- or above).</i>	California, USA June 2025 – Aug. 2025

RESEARCH EXPERIENCE

Pathology Report Generation via Multi-modal Learning <i>Research Assistant, Supervised by Prof. Hao Chen</i> • Proposed a novel multi-modal framework to automatically generate pathology reports from Whole Slide Images (WSI). • Developing a two-stage training pipeline for pathology report generation, leveraging a highly structured, high-quality dataset to enhance generation accuracy. • Addressed the scarcity of high-quality paired WSI-report datasets by constructing a large-scale instruction-tuning dataset. • Designed a modality-alignment algorithm to enhance consistency between visual features and text descriptions, and proposed a disentanglement method to decouple template artifacts from diagnostic information . • Leveraged State-of-the-Art Vision-Language Models (VLMs) to assist pathologists, targeting measurable improvements in clinical workflow efficiency.	Sep. 2025 – Present HKUST Smart Lab
Cancer Diagnosis and Prognosis with Whole Slide Images <i>Undergraduate Researcher, Supervised by Prof. Hao Chen (UROP)</i> • Conducted a comprehensive survey on deep learning methods for cancer diagnosis, synthesizing insights from over 10 seminal papers and recent benchmarks. • Implemented and evaluated deep learning baselines, including MotCAT and MACT , to analyze performance gaps in cancer subtype classification. • Identified key computational bottlenecks inherent in gigapixel resolution and high-dimensional feature spaces that limit traditional ML models.	Sep. 2024 – Sep. 2025 HKUST Smart Lab
iFLYTEK Co., Ltd. <i>AI Data Processing Intern</i> • Developed automated Python scripts for large-scale web data collection, improving data acquisition efficiency. • Preprocessed unstructured data to support the unsupervised training of Large Language Models (LLMs). • Analyzed data quality and summarized findings in technical reports presented to the senior research team.	June 2024 – Aug. 2024 Hefei, China

PROJECTS

Zero-Shot Spatial Reasoning with Large Language Models <i>Course Project</i> • Investigated the spatial reasoning capabilities of LLMs in zero-shot settings using custom prompt engineering. • Designed and executed experiments to evaluate model performance on complex geometric reasoning tasks.	Mar. 2025 – May 2025
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AWARDS & HONORS

Dean's List, HKUST University Scholarship (Top 2% Students), HKUST	2023 – 2025 (Awarded 4 times) 2023 – 2024
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SKILLS

Languages: Mandarin (Native), English (Professional Proficiency, **TOEFL: 102**)
Programming: Python (PyTorch, TensorFlow), C++, MATLAB, R, HTML/CSS
Tools: Linux, Git, Docker, LaTeX, Vim