

XIAOKUN (KEN) ZHONG

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EDUCATION

Hong Kong University of Science & Technology (HKUST) <i>BSc in Mathematics (Computer Science Track)</i> <ul style="list-style-type: none">Relevant Coursework: Honors Calculus, Linear Algebra, Artificial Intelligence	Sep 2022 – Jun 2026 (Expected) Kowloon, Hong Kong
University of California, Berkeley <i>Summer Session Exchange</i> <ul style="list-style-type: none">Course: CS61A (Structure and Interpretation of Computer Programs)	Jun 2023 – Aug 2023 Berkeley, CA

RESEARCH EXPERIENCE

Dartmouth College <i>Research Assistant, Advisor: Prof. Yaoqing Yang</i> <ul style="list-style-type: none">Investigating phase transitions and loss landscapes of Physics-Informed Neural Networks (PINNs) to understand model convergence and generalization for complex physical systems.Developing and implementing novel PINN architectures using PyTorch to solve systems of partial differential equations (PDEs).Co-authored manuscript: "Loss Landscape Analysis of Scientific Machine Learning Models" (Y. Hu, H. Lu, Y. Wang, X. Wang, X. Zhong, et al.) (<i>Unpublished Manuscript</i>).	Feb 2025 – Present Hanover, NH
HKUST Undergraduate Research Program (UROP) <i>Research Assistant, Advisors: Prof. Hao Chen & PhD Zelin Qiu</i> <ul style="list-style-type: none">Designed and trained deep learning models for medical image analysis, specifically focusing on accelerating MRI reconstruction using convolutional neural networks.Assisted in achieving a comprehensive and stable solution for rebuilding 3D human models from varying 2D MRI slices using deep learning techniques, contributing to a potential open-source library for medical imaging.	Feb 2023 – May 2025 Kowloon, Hong Kong

WORK EXPERIENCE

StarMerx International Inc. <i>Trader Intern</i> <ul style="list-style-type: none">Scraped and analyzed YouTube trend data to inform market strategy, leading to a 15% improvement in ad targeting.Engineered optimized ad placement algorithms with Python and Shopify APIs.Improved website LCP and customer engagement via UI redesign.	Jun 2024 – Aug 2024 Shenzhen, Guangdong
Agricultural Bank of China <i>IT Intern</i> <ul style="list-style-type: none">Improved and tested secure eCNY (digital currency) wallet features, supporting a major fintech initiative.	Jan 2024 – Feb 2024 Shenzhen, Guangdong

PROJECTS & LEADERSHIP

HKUST RoboMaster Team <i>Software Engineer</i> <ul style="list-style-type: none">Built a computer vision system for QR code scanning and target identification using Python and OpenCV for an autonomous robot.Programmed low-level motor controls and sensor integration in C++ on embedded hardware.	Oct 2022 – Jun 2023 Kowloon, Hong Kong
SAGA Voluntary Teaching Organization <i>Team Leader & Instructor</i> <ul style="list-style-type: none">Managed and coordinated 200+ volunteer teachers for a non-profit providing education to children with leukemia.Designed and taught weekly math and language curriculum, honing leadership and organizational skills.	Sep 2022 – Present Kowloon, Hong Kong

SKILLS

Programming Languages: Python, C++, SQL
AI Frameworks: PyTorch, TensorFlow, Scikit-learn, OpenCV
Developer Tools: Git, Docker, Slurm, LaTeX
Languages: English (Fluent), Mandarin (Native), Cantonese (Intermediate)