

GUO Beichen

Year 3 Undergraduate Student
Department of Electrical and Electronic Engineering
The Hong Kong Polytechnic University (PolyU)

Phone: +852 5135 5605
Email: beichen.guo@polyu.edu.hk
Website: technicolorguo.github.io

EDUCATIONAL BACKGROUND

2022.09 – Present	<p>BSc (Hons) in Artificial Intelligence and Information Engineering, The Hong Kong Polytechnic University (PolyU), Hong Kong</p> <p>Weighted GPA: 4.06/4.30 Cumulative GPA: 4.03/4.30</p> <p>DEEP LEARNING AND DEEP NEURAL NETWORKS [A+] DATA STRUCTURES [A+] FOUNDATION TECHNIQUES IN ARTIFICIAL INTELLIGENCE [A+] MACHINE LEARNING IN CYBER-SECURITY [A+] COMPUTER SYSTEMS PRINCIPLES [A+] INFORMATION TECHNOLOGY [A+] DISTRIBUTED SYSTEMS AND CLOUD COMPUTING [A+] DATA AND COMPUTER COMMUNICATIONS [A+] WEB SYSTEMS AND TECHNOLOGIES [A+] BASIC MATHEMATICS I - CALCULUS AND PROBABILITY & STATISTICS [A+] BASIC MATHEMATICS II - CALCULUS AND LINEAR ALGEBRA [A+] COMPUTER PROGRAMMING [A+] INTRODUCTION TO INTERNET OF THINGS [A+]</p>
2024.07 – 2024.08	Korea Advanced Institute of Science & Technology (KAIST) International Summer School

RESEARCH INTERESTS

LLM Multi-Agent Systems, AI Scientist & Researcher, Reinforcement Learning for LLM Reasoning

AWARDS & HONORS

2024/25	SINOPEC "Cleaner Energy Better Life" Scholarship 2024/25
2023/24, 2022/23	PolyU Dean's Honours List

2023/24	The HKSAR Government Scholarship Fund: Reaching Out Award
2023/24	10 th Hong Kong University Student Innovation and Entrepreneurship Competition: Merit Prize
2023/24	KAIST International Summer School (tuition waived)
2023/24	Dr Winnie S M Tang-PolyU Student Innovation & Entrepreneurship Scholarship
2022/23	PolyU's Undergraduate Research and Innovation Scheme (URIS) Nomination

RESEARCH EXPERIENCES & INTERNSHIP

2024.7–2025.3	<p>(<i>arXiv</i>'25 Preprint) InteractiveSurvey: An LLM-based Personalized and Interactive Survey Paper Generation System</p> <p>Developed an automated survey generation system using large language models (LLM) and retrieval augmented generation (RAG).</p> <p>Integrated machine learning techniques to fully automate the pipeline.</p> <p>Designed an interactive interface for the live demonstration of the survey generation system. https://technicolorguo.github.io/InteractiveSurvey/</p>
2024.1–2024.7	<p>(<i>arXiv</i>'24 Preprint) MegaFake: A Theory-Driven Dataset of Fake News Generated by Large Language Models</p> <p>Co-authored a preprint on a benchmark of fake news detection using large language models, focusing on dataset creation and evaluation.</p> <p>Helped to design a pipeline to generate machine-generated fake news based on the GossipCop dataset.</p> <p>Conducted experiments to analyze the effectiveness of the proposed LLM-Fake Theory framework.</p>
2024.5– Present	<p>Student Assistant of The Internet and Mobile Computing Laboratory (IMCL), PolyU</p> <p>Assisted in the research project on comprehending and reflecting personality in dialog systems.</p> <p>Contributed to the development of an automatic survey generation benchmark.</p>
2024.3–2024.6	<p>Student Assistant of CLP Power Hong Kong Ltd</p>

Modified the outer casing and connecting components of the surrogated stator using Fusion 360.

Fabricated components using 3D printing technology and tested their performance for compatibility and durability.

Assembled the surrogated stator to simulate generator maintenance tasks for robotic system testing.

SKILLS

Programming Python, Java, C/C++, Bash, JavaScript, SQL, Matlab

Web Django, MongoDB, Node.js, Express.js, CSS, Bootstrap

Deep Learning PyTorch

