Chang CHEN

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⚙ GitHub Profile
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EDUCATION

•**Bachelor of Engineering in AI: Systems & Technology** *Sept 2021 - May 2025(Expected)*

The Chinese University of Hong Kong CGPA: 3.644

- Dean's List 2021-2022
- Dean's List 2023-2024
- ELITE Stream Scholarship 2022-2023
- Relevent Coursework: Fundamentals of Machine Learning, Introduction to Computer Systems, Distributed and Parallel Computing, Foundations of Optimization, Foundation of Applied Deep Learning.

PERSONAL PROJECTS

•**OASIS** *Nov 2022 - Feb 2023*

A metamorphic testing framework to validate content moderation software, focusing on toxic images.

- Conducted a preliminary study on over 5,000 real-world image messages and summarised over 20 image transform rules to hide toxic content.
- Designed a comprehensive testing framework for textual toxic content spread via images, whose results can effortlessly evade software moderation.

•**Semantic Fusion: DUO** *Jul - Nov 2022*

A practical content moderation software testing tool that helps to improve software moderation ability.

- Developed a general, effective methodology and tool for testing multimedia content moderation software.
- Successfully attacked 7 popular softwares through 1,200 pieces of data, measurably indicating their weaknesses in multimedia content moderation.

EXPERIENCE

•**UG Summer Research Internship** *Jun - Aug 2023*

The Chinese University of Hong Kong, Hong Kong Offline
- Project Name: Multilingual Safety of Large Language Model
- Built a multilingual safety benchmark containing more than 26,000 pieces of data and 10 different languages for testing large language models' multilingual safety ability.
- Presented the project at CUHK ERB LT foyer.

TECHNICAL SKILLS

Programming Languages: C, Python, Java, Javascript, HTML, CSS, PHP
Libraries: Python Libraries(Pandas, PyTorch, NumPy, etc.), OpenMP, cuda

PUBLICATIONS

•**All Languages Matter: On the Multilingual Safety of LLMs**
Wang, Wenxuan, Zhaopeng Tu, Chang Chen, Youliang Yuan, Jen-tse Hung, Wenxiang Jiao, and Michael Lyu

The 62nd Annual Meeting of the Association for Computational Linguistics, 2024

•**Validating Multimedia Content Moderation Software via Semantic Fusion**
Wang, Wenxuan, Jingyuan Huang, Chang Chen, Jiazhen Gu, Jianping Zhang, Weibin Wu, Pinjia He, and Michael Lyu

Proceedings of the 32nd ACM SIGSOFT International Symposium on Software Testing and Analysis, 2023

•**An Image is Worth a Thousand Toxic Words: A Metamorphic Testing Framework for Content Moderation Software**
Wang, Wenxuan, Jingyuan Huang, Jen-tse Huang, Chang Chen, Jiazhen Gu, Pinjia He, and Michael R Lyu

2023 38th IEEE/ACM International Conference on Automated Software Engineering (ASE), 2023