

Chengyu Huang

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EDUCATION

Cornell University

Aug 2024 - Present

- PhD in Computer Science
- Research Area: Natural Language Processing; Advisor: Claire Cardie

National University of Singapore

Aug 2019 - May 2023

- Bachelor of Computing; Major: Computer Science; Second Major: Mathematics
- Cumulative Average Point: 4.98/5.0; Rank: $\leq 2/759$; Most Outstanding Graduate

Swiss Federal Institute of Technology in Zurich

Feb 2022 - July 2022

- Exchanged at ETH Zurich and took the courses in Machine Learning, 3D Vision, Natural Language Processing, Convex Optimization, German A1.1, and German A1.2

RESEARCH EXPERIENCE

Student Researcher, Cloud AI, Google

May 2025 - Present

- Worked on enhancing the robustness and effectiveness of preference optimization methods

Research Intern, H2Lab, University of Washington

May 2023 – May 2024

- Investigated Reinforcement Learning from Human Feedback for response generation with citations, a direction that aims at enhancing the truthfulness of language models

Research Assistant, School of Computing, NUS

May 2023 – Aug 2024

- Designed and implemented an NLP based credential-taking intention and text brand detector for HTML webpages, which increases recall and precision of an existing phishing webpage detector

Research Intern, NExT++ Research Center, NUS

Oct 2021 - May 2023

- Adapted a model based on GAN and LSTM for response generation in a multi-party context with the help of relational thinking, which was shown to be effective without topic or thread labels
- Designed a global clustering model for conversation disentanglement with contrastive learning and K means, and the model was shown to be more effective than traditional 2-stage models

PUBLICATIONS

Conference papers

- Chengyu Huang, Zheng Zhang, Hao Fei, and Lizi Liao. "Conversation Disentanglement with Bi-Level Contrastive Learning." *Proceedings of the Findings of the Association for Computational Linguistics: EMNLP 2022*. [\[paper\]](#)
- Chengyu Huang, Zeqiu Wu, Wenya Wang, and Yushi Hu. "Training Language Models to Generate Text with Citations via Fine-grained Rewards." *Proceedings of the 62nd Annual Meeting of the Association for Computational Linguistics*. [\[paper\]](#)
- Chengyu Huang, Tanya Goyal. "DCRM: A Heuristic to Measure Response Pair Quality in Preference Optimization." *Proceedings of the Findings of the Association for Computational Linguistics: EMNLP 2025*. [\[paper\]](#)
- Tri Cao*, Chengyu Huang*, Yuexin Li*, Huilin Wang, Amy He, Nay Oo, Bryan Hooi. "PhishAgent: A robust Multimodal Agent for Phishing Webpage Detection." *The 39th Annual AAAI Conference on Artificial Intelligence*. [\[paper\]](#)
- Yuexin Li, Chengyu Huang, and Bryan Hooi. "KnowPhish: Large Language Models Meet Multimodal Knowledge Graphs for Enhancing Reference-Based Phishing Detection." *The 33rd USENIX Security Symposium*. [\[paper\]](#)

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ACADEMIC SERVICE

Reviewer

EMNLP 2022, ARR 2024-2025, NeurIPS 2025, AAAI 2025

Volunteer

EMNLP 2023, ACL 2024

HONORS AND AWARDS

Sterling Prize Fellowship

29 Jan 2024

- A fellowship of \$7000 from the PhD program in the CS department at Yale University (Declined)

IMDA Excellence in Computing Prize [\[certificate\]](#)

5 June 2023

- A cash prize of \$3500 awarded to the Most Outstanding Graduate in the Bachelor of Computing programme from the Infocomm Media Development Authority in Singapore

Dean's List, School of Computing, NUS

Jan - May 2023; Jan - May 2021; Aug - Dec 2020

Senior Middle 2 Scholarship

Aug 2018 - May 2023

TEACHING EXPERIENCE

Teaching Assistant, CIS, Cornell University

- CS 3780: Introduction to Machine Learning

Jan 2025 – May 2025

Teaching Assistant, School of Computing, NUS

- CS3230: Design and Analysis of Algorithms
- CS2100: Computer Organization
- CS1231S: Discrete Structures
- CS1101S: Programming Methodology

Aug 2021 - Nov 2021

Jan 2021 - Apr 2021

Aug 2020 - Nov 2020

Aug 2020 - Nov 2020

PROFESSIONAL EXPERIENCE

Contributor and Mentor, RepoSense [\[repository\]](#)

Jan 2021 - May 2023

- Added new features such as highlighting and binary format support with Vue.js, Pug, and css, which enhanced the user interface of RepoSense, a contribution analysis tool of Git repositories
- Maintained the project, reviewed close to 100 pull requests, and made 5 product releases, which ensured it runs smoothly with 10 active developers and more than 1000 active users

Backend Engineer Intern, Global Payment, ByteDance

May 2021 - Aug 2021

- Constructed an internal bot that monitors the transaction metrics from a TSDB and sends alerts to the engineers, alleviating the on-call team's burden and accelerating the error handling process

Developer Intern, Mobile Application, U Wave

May 2020 - Aug 2020

- Developed user interfaces for services such as module calendar and bus timing of U Wave with Flutter and Dart, which became new functionalities of the mobile application
- Collaborated in its campus promotion initiative, and invited NUS students to join its existing network of more than 10000 users on campus

ADDITIONAL INFORMATION

- **Skills:** Java, Python, C programming, PostgreSQL, Go, html, and css
- **Languages:** Chinese and English: Proficient; German: A1.2