Haohan Yuan

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RESEARCH INTEREST

- **Natural Language Processing**
  Summarization, Information Extraction
- **Gnerative AI**
  Large Language Models, Large Reasoning Models
- **Machine Leaning**
  Graph Learning, Representation Learning

EDUCATION

- **University of Hawaii at Manoa** — **Hawaii, USA**
  Ph.D. Student in Computer Science, Information and Computer Sciences Department — *Aug. 2024–Present*
  - **Advisor**: Haopeng Zhang
- **Nanyang Technological University** — **Singapore**
  M.Eng. in Computer Science, College of Computing and Data Science — *Aug. 2022–Jul. 2024*
  - **Advisor**: Siu Cheung Hui
- **Hefei University of Technology** — **Hefei, China**
  B.Sc. in Mathematics and Applied Mathematics, School of Mathematics — *Aug. 2018–May 2022*

PUBLICATIONS
(* denotes equal contribution)

[C1] **Haohan Yuan**, Haopeng Zhang, "DomainSum: A Hierarchical Benchmark for Fine-Grained Domain Shift in Abstractive Text Summarization". In *Findings of the 2025 Annual Conference of the Nations of the Americas Chapter of the Association for Computational Linguistics.* (NAACL 2025) 📄

[C2] **Haohan Yuan**, Siu Cheung Hui, Haopeng Zhang, "A Structure-aware Generative Model for Biomedical Event Extraction". In *The 30th International Conference on Database Systems for Advanced Applications* (DASFAA 2025) 📄

[C3] Yili Ren*, Haopeng Zhang*, **Haohan Yuan**, Jingzhe Zhang, and Yitong Shen, "Wi-Chat: Large Language Model Powered Wi-Fi Sensing". In *Proceedings of the 23rd ACM International Conference on Mobile Systems, Applications, and Services* (MobiSys 2025) -Posters, ACM. 📄

[J1] Anran Hao*, **Haohan Yuan***, Siu Cheung Hui, Jian Su, "Effective type label-based synergistic representation learning for biomedical event trigger detection". In *BMC Bioinformatics* (2024) 📄

PREPRINTS
(* denotes equal contribution)

[P1] **Haohan Yuan**, Sukhwa Hong, Haopeng Zhang, "StrucSum: Graph-Structured Reasoning for Long Document Extractive Summarization with LLMs". *In submission* 📄

HONORS AND AWARDS

Hawaii Data Science Institute AI @ HIDSI Fellowship — 2025

PROFESSIONAL SERVICE

- **Conference Reviewer and Program Committee Member**
  AAAI 2026, NewSumm 2025 (EMNLP Workshop)
- **Conference Volunteer**
  NAACL 2025

PROFESSIONAL EXPERIENCE

SPIRIT Laboratory, Nanyang Technological University/Singapore Food Agency **Singapore**
Research Assistant *Jan. 2024–Apr. 2024*
- Developed a prototype framework for extracting pathogen information from a large corpus of crawled PubMed papers based on large language models.

SPIRIT Laboratory, Nanyang Technological University/Singapore Food Agency **Singapore**
Software Engineering Assistant *Oct. 2022–Apr. 2023*
- **Full-stack Development**: Developed an online food safety news event monitoring system to track and assess food safety risks. Tech stack: Python, Django, JavaScript, Vue, Element UI, and Elasticsearch.

iFLYTEK CO.LTD. **Hefei, China**
Data Science Engineer Intern *Sep. 2021–Dec. 2021*

SKILLS

Programming
Python, JavaScript, Vue, Matlab

Tools
PyTorch, Transformers, Huggingface, OpenAI API, Django, Element UI, ElasticSearch