

Alan (Haoxin) Li

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Education

Yale University, Computer Science

New Haven, CT

PhD Student at Computer Science, [YaleNLP](#)

Sept 2024–Present

Advised by [Prof. Arman Cohan](#).

University of Washington, Paul G. Allen School of CSE

Seattle, WA

B.S./M.S. Combined at Computer Engineering | Fully Funded M.S.

Sept 2020–Jun 2024

Mentored by [Prof. Noah A. Smith](#), [Prof. Jungo Kasai](#), and Mr. Phillip Keung.

Research Interest

- **Agentic Workflow** Multi-turn tool-use, agentic search, memory management.
- **Efficiency** Efficient architecture, infra.
- **Multimodality** Text, audio, vision, behavior.

Work Experiences

Research Scientist Intern | *Kotoba Technologies, Tokyo Japan*

Summer 2024

- Developed **efficient real-time speech-to-text** Japanese ↔ English translation models. ([Demo](#))
- Developed **multimodal end-to-end audio language models** for Japanese ↔ English translation. ([Demo](#))

Machine Learning Engineer Intern | *DGene Digital Technology, Shanghai*

Winter 2021–Summer 2021

- Developed deep learning **UNet** based **class-independent image matting and semantic segmentation** algorithms on 4K images that features iterative refinements with user inputs.
- Developed in-house **multi-camera calibration** libraries for 3D reconstruction with **C++ (Pybind11)** backend.

Publications

2025 ***Demystifying Scientific Problem-Solving in LLMs by Probing Knowledge and Reasoning*** ([Link](#))

Alan Li*, Yixin Liu*, Arpan Sarkar, Doug Downey, Arman Cohan

Preprint. Under Review.

Survey on Evaluation of LLM-based Agents ([Link](#))

Asaf Yehudai, Lilach Edelstein, **Alan Li**, Guy Uziel, Yilun Zhao, Roy Bar-Haim, Arman Cohan, Michal Shmueli-Scheuer

Preprint. Under Review.

Multi-Perspective Integration via Mixture-of-Agents for Enhanced Healthcare QA Summarization ([Link](#))

Dongsuk Jang, **Alan Li**, Arman Cohan

#2 at [CL4Health@NAACL2025 Leaderboard](#). NAACL 2025 (Workshop: CL4Health).

SciRIF: A Resource to Enhance Language Model Instruction-Following over Scientific Literature ([Link](#))

David Wadden*, Kejian Shi*, Jacob Morrison, **Alan Li**, Aakanksha Naik, Shruti Singh, Nitzan Barzilay, Kyle Lo, Tom Hope, Luca Soldaini, Zejiang Shen, Doug Downey, Hannaneh Hajishirzi, Arman Cohan

EMNLP 2025 (Main Conference).

2024 **Summarization-Based Document IDs for Generative Retrieval with Language Models** ([Link](#))

Alan Li, Phillip Keung, Daniel Cheng, Jungo Kasai, Noah A. Smith.

EMNLP 2024 (Workshop: NLP for Wikipedia).

2023 **NarrowBERT: Accelerating Masked Language Model Pretraining and Inference** ([Link](#), [Code](#), [Video](#))

Alan Li, Phillip Keung, Daniel Cheng, Jungo Kasai, Noah A. Smith.

ACL 2023 (Main Conference).

Activities

2025 [Tutorial] **IJCAI 2025: Evaluating LLM-Based Agents** ([Link](#))

Roy Bar-Haim, Arman Cohan, Lilach Eden, **Alan Li**, Michal Shmueli-Scheuer, and Asaf Yehudai

Presenter. *IJCAI 2025, Montreal.*

2024 [Award] **Roberts Innovation Fund Awardee: LLM Agents as Research Advisors** ([Link](#))

Arman Cohan, Yilun Zhao, **Alan Li**

Founding member.

[Project] **Japanese TTS Arena: Benchmarking Japanese TTS Models in the Wild** ([Link](#))

Main Contributor.

*These authors contributed equally to this work.