Yating Wu

PhD Student

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Research Overview

My research primarily concentrates on **text generation, evaluation, and their applications**. My experience includes:

- Enhancing text comprehension through discourse relationships within documents. Specifically, I work on problems related to **"Questions Under Discussion"**.
- Enhancing the planning and tool using ability of LLM agents.

Education

2022 – Now   **Ph.D. in Computer Engineering**, *The University of Texas at Austin*
Advisors: Jessy Li, Alex Dimakis

2020 – Now   **M.S. in Computer Engineering**, *The University of Texas at Austin*
Advisors: Jessy Li, Alex Dimakis

2014 – 2019   **B.Eng. in Computer Science & B.A. in Japanese**, *Dalian University of Technology*

2017 - 2018   **Exchange student in Computer Science**, *The University of Tokyo*
Advisor: Toshihiko Yamasaki

Selected Publications

[1] **Yating Wu***, Ritika Rajesh Mangla*, Alexandros G. Dimakis, Greg Durrett, Junyi Jessy Li. Which questions should I answer? Salience Prediction of Inquisitive Questions (preprint)

[2] **Yating Wu**, Ritika Rajesh Mangla, Greg Durrett, Junyi Jessy Li. QUDeval: The Evaluation of Questions Under Discussion Discourse Parsing. Conference on Empirical Methods in Natural Language Processing (**EMNLP**), Singapore, 2023. **(Oral)**

[3] **Yating Wu***, William Sheffield*, Kyle Mahowald, and Junyi Jessy Li. Elaborative Simplification as Implicit Questions Under Discussion. Conference on Empirical Methods in Natural Language Processing (**EMNLP**), Singapore, 2023.

[4] Wei-Jen Ko, **Yating Wu**, Cutter Dalton, Dananjay Srinivas, Greg Durrett and Junyi Jessy Li. Discourse Analysis via Questions and Answers: Parsing Dependency Structures of Questions Under Discussion. Findings of the Association for Computational Linguistics (**ACL**), Toronto, 2023.

Professional Experience

May - Aug. 2024   **Applied Scientist Intern**, *Amazon Alexa AGI*, Sunnyvale, CA
- I worked on research problems focused on enhancing the planning and tool-using capabilities of LLM agents.

Jun. - Aug. 2023	**Software Engineer Intern**, *Amazon Prime Video*, Austin, TX

- Implemented an in-game notification system using Rule Engine, by Java.
- Set up Lambda to respond to external service notifications and fetch updates through API, by Java.
- Designed a rule config table to store rules, by Java.
- Automated the evaluation and execution of rules with Java Rule Engine.

Jun. - Sept. 2021	**Software Engineer Intern**, *Amazon Prime Video*, Austin, TX

- Implemented a Java-based Ranking System for events with over 10,000 lines of code and 97% coverage, by Java.
- Designed and implemented a DynamoDB table for viewership data and event filtering, by Java.
- The project has been launched in prime video live events section.

Teaching Experience

CS391L	**Machine Learning (graduate level)**, *Teaching Assistant*, Fall 2021, Spring 2022, Summer 2022, Fall 2022, Spring 2023
EE422C	**Software design & implementation II (Java)**, *Teaching Assistant*, Summer 2020, Fall 2020, Spring 2021

Mentoring Experience

Master's student	**Ritika Mangla**, 2022-2024, co-authored paper [1] and [2]

Honors

Jul. 2021	**1st place in VMware Codehouse Palo Alto**, remotely from Austin
Jun. 2019	**Outstanding graduates**, Dalian University of Technology

Skills

Programming	Python, Java, C/C++, JavaScript(TypeScript), Bash, SQL, HTML/CSS, Kotlin, LaTeX
Tools	Tensorflow, PyTorch, Stanford CoreNLP, NLTK, Amazon Web Service, Cuda Programming, Mockito, Guice, DynamoDB
Languages	English (fluent), Japanese (near-native), Chinese (native)