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"**.
- Exploring monolingual and bilingual dialogue patterns and leveraging generative models on applications.

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***, William Sheffield*, Kyle Mahowald, and Junyi Jessy Li. Elaborative Simplification as Implicit Questions Under Discussion. arXiv:2305.10387, 2023.

[2] 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**), To appear, 2023.

Professional Experience

Jun. - Sept. 2023 **Software Engineer Intern**, *Amazon*, 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*, 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

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)