(Harvey) Yiyun Fu

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RESEARCH INTERESTS

Natural Language Processing few-shot learning; cross-task generalization robustness; LLM capability evaluation; meta-learning; LLM reasoning abilities

EDUCATION

University of Chicago, Chicago, IL — 2024 - Present
Ph.D. in Computer Science (Advisor: Ari Holtzman)

University of Southern California, Los Angeles, CA — 2019 - 2023
Bachelor of Science in Economics & Mathematics

RESEARCH EXPERIENCE

University of Southern California, Los Angeles, CA — April 2022 - Present
Allegro Lab & INK Lab
Research Assistant (Advisor: Robin Jia and Xiang Ren)

- Large Language Model Hallucination Detection

I studied LLM hallucination detection problems with a focus on long-sequence generations by inserting contradictory evidence.

- Large Language Model Capability Analysis

I focused on evaluating the calibration of LLMs through in-context learning and task-level accuracy predictions through a meta-learning process. I also worked on LLM performance predictions through experiment records.

University of Southern California, Los Angeles, CA — Spring 2022
Student Researcher (Instructor: Goran Muric and Keith Burghardt)

- Disinformation Detection

I studied falsified information detection for generated texts, images, captions, and also web-scraped data from semantic scholar using a decision tree model.

PUBLICATIONS

Harvey Yiyun Fu, Qinyuan Ye, Albert Xu, Xiang Ren, Robin Jia. **Estimating Large Language Model Capabilities without Labeled Test Data**. *Findings of EMNLP, 2023* [Paper] [Code]

Qinyuan Ye, **Harvey Yiyun Fu**, Xiang Ren, Robin Jia. **How Predictable Are Large Language Model Capabilities? A Case Study on BIG-bench**. *Findings of EMNLP, 2023* [Paper]

INDUSTRY EXPERIENCE

Paragon Partners Asia, Shanghai, China — Spring 2022
Financial Analyst
Built machine learning models to analyze statistical patterns in cash flow statements.

Tempo Asset Management Company, Shanghai, China — Summer 2021
Economic Research Intern

TEACHING EXPERIENCE

ITP115: Programming in Python, USC — Aug 2022 - Present
Assist with course teaching and grading, and hold semi-weekly office hours.
Instructor: Trina Gregory and Barrett Koster

AWARDS AND	USC Provost's Undergrad Research Fellowship	Apr 2023 and Sep 2023
HONORS	USC Academic Achievement Award	Jul 2021

Last update: Oct 18, 2024