

## EDUCATION

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### University of Southern California

*PhD in Computer Science, Natural Language Processing*

**Honors:** Amazon Fellowship, 2024-2025

**Advisor:** Xiang Ren

Los Angeles, CA

*Sep 2022 - Present*

### Princeton University

*M.S.E. in Computer Science*

**Honors:** Siebel Scholars, Class of 2022

**Advisor:** Danqi Chen

Princeton, NJ

*Sep 2020 - May 2022*

### Wellesley College

*B.A in Computer Science / Cognitive and Linguistic Sciences*

**Honors:** Sigma Xi Scientific Research Honor Society; Durant Scholars *magna cum laude*

Wellesley, MA

*Sep 2016 - May 2020*

## PUBLICATIONS

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### Diagnosing Memorization in Chain-of-Thought Reasoning, One Token at a Time

[\[pdf\]](#) [\[code\]](#)

**Huihan Li\***, You Chen\*, Siyuan Wang, Yixin He, Ninareh Mehrabi, Rahul Gupta, Xiang Ren

*EMNLP 2025*

### Attributing Culture-Conditioned Generations to Pretraining Corpora

[\[pdf\]](#) [\[code\]](#)

**Huihan Li\***, Arnav Goel\*, Keyu He, Xiang Ren

*ICLR 2025*

### In Search of the Long-Tail: Systematic Generation of Long-Tail Inferential Knowledge via Logical Rule Guided Search

[\[pdf\]](#) [\[code\]](#)

**Huihan Li**, Yuting Ning, Zeyi Liao, Siyuan Wang, Xiang Lorraine Li, Ximing Lu, Wenting Zhao, Faeze Brahman, Yejin Choi, Xiang Ren

*EMNLP 2024*

### CULTURE-GEN: Revealing Global Cultural Perception in Language Models through Natural Language Prompting

[\[pdf\]](#) [\[code\]](#)

**Huihan Li**, Liwei Jiang, Jena D. Hwang, Hyunwoo Kim, Sebastin Santy, Taylor Sorensen, Bill Yuchen Lin, Nouha Dziri, Xiang Ren, Yejin Choi

*COLM 2024*

### Ditch the Gold Standard: Re-evaluating Conversational Question Answering

[\[pdf\]](#) [\[code\]](#)

**Huihan Li\***, Tianyu Gao\*, Manan Goenka, Danqi Chen

*ACL 2022*

Outstanding Paper Award

### Controllable Text Generation with Language Constraints

[\[pdf\]](#)

Howard Chen, **Huihan Li**, Danqi Chen, Karthik Narasimhan

*arxiv, 2022*

## INTERNSHIP EXPERIENCE

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### Meta, GenAI

*Research Intern with **Liang Tan** and **Bo Xiong***

Bellevue, WA

*May 2025 – Aug 2025*

- Independently designed and implemented an improved reinforcement learning sampling method to enhance mathematical reasoning in large language models

### Allen Institute of Artificial Intelligence, Mosaic

*Research Intern with **Yejin Choi***

Seattle, WA

*May 2023 – Mar 2024*

- Designed, led and implemented research project on studying **multicultural bias** in large language models

### Apple, AI/ML

*AI/ML Intern, Answers and Web Ranking Team, AI/ML Information Intelligence*

Seattle, WA

*May 2022 – Aug 2022*

- Collected annotation data for training **multilingual question answering systems**
- Implemented **multilingual LUKE** model in **Flax**
- Wrote trainer pipeline and trained multilingual extractive question answering model with **TensorFlow** and **JAX**

## Google

*Software Engineering Intern*

Pittsburgh, PA

*May 2019 – Aug 2019*

- Designed, implemented and tested an **end-to-end dialog feature** for price queries on Google Assistant devices
- Created **natural language understanding grammar** that recognizes user intent to ask for price and extract key information from query

## Seedlink Technology

*Linguistic Research Intern*

Shanghai, China

*Jun 2017 – Aug 2017*

- Researched on **extracting linguistic features** from written text that correlated with human personality
- Improved the **segmentation** accuracy of in-house Chinese dictionary model by 11% by creating more accurate user dictionary

## SKILLS

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- **Frameworks:** PyTorch, Jax, Flax, TensorFlow, CUDA, Pandas, NumPy
- **Annoation:** Amazon Mechanical Turk, Prolific
- **Languages:** Python, Java, C, C++, Assembly, Racket, Standard ML, HTML, CSS
- **DevOps:** Amazon Web Services, Microsoft Azure, Git

## SERVICES

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- **Reviewing:** COLING 2024, ACL 2024, EMNLP 2024, COLING 2025, ICLR 2025, ARR August 2024, ARR December 2024, NAACL 2025 Demo Track, ACL 2025, COLM 2025, EMNLP 2025

## TEACHING

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### Princeton University, Computer Science

*Teaching Assistant*

Princeton, NJ

*Sep 2020 – May 2022*

- Led Discussion Sessions and graded assignments for Princeton's undergraduate course COS217, Introduction to Programming Systems.

### Wellesley College, Computer Science

*Tutor & Grader*

Wellesley, MA

*Jan 2018 – Dec 2019*

- Led Office Hours and graded assignments for Wellesley's undergraduate course CS230, Data Structures, and CS235, Theory of Computation.