

## EDUCATION

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### University of Southern California

*PhD in Computer Science, Natural Language Processing*

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*

## RESEARCH EXPERIENCE

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### University of Southern California

*Natural Language Processing with **Xiang Ren***

- **Project:** Longtailed knowledge generation

Los Angeles, CA

*Sep 2022 - Present*

### Princeton University

*Natural Language Processing with **Danqi Chen***

- **M.S.E. Thesis:** Re-evaluating Conversational Question Answering

Princeton, NJ

*Sep 2020 - May 2022*

### Wellesley College

*Human Crowdsensing with **Christine Bassem***

- **Thesis:** Spatio-Temporal Analysis and Simulation of Human Trajectories in Urban Environments [\[pdf\]](#)

Wellesley, MA

*Sep 2018 - May 2020*

## PUBLICATIONS

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

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

**Huihan Li**<sup>\*</sup>, Tianyu Gao<sup>\*</sup>, Manan Goenka, Danqi Chen

*ACL 2022*

Outstanding Paper Award

## WORK EXPERIENCE

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### Apple, AI/ML

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

- 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**

Seattle, WA

*May 2022 – Aug 2022*

### Google

*Software Engineering Intern*

- 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

Pittsburgh, PA

*May 2019 – Aug 2019*

### Seedlink Technology

*Linguistic Research Intern*

- 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

Shanghai, China

*Jun 2017 – Aug 2017*

## SKILLS

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

## SELECTED COURSEWORK

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- Natural Language Processing | Mathematical Theory of Deep Learning | Computational Psycholinguistics | Computational Control Theory

## LEADERSHIP AND SERVICES

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### **Student Representative on Board of Admission**

*Wellesley College*

Wellesley, MA

*Sep 2019 – April 2020*

- Serve on First-year student selection committee with 11 other students
- Provide comments for applicants to assist Admission Office readers on making admission decisions

### **President of Wellesley Club Water Polo**

*Wellesley College*

Wellesley, MA

*Sep 2017 – May 2019*

- Hosted practices and designed practice agenda with captain and coach for a team of 30 players
- Promoted water polo to the broader Wellesley-area community, increasing ethnic diversity of the sport

## SELECTED PROJECTS

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### **Chat Web App**

*Google CodeU Program*

Virtual

*Feb 2018 – May 2018*

- Collaborated with a team of peers to ideate, design, and build a Chat Web application using Java, JavaScript, HTML and CSS over the course of 12 weeks

### **“The Phonetics and Phonology of Urdu”**

*Research Project*

Wellesley, MA

*Feb 2017 – May 2017*

- Conducted an extensive study on the phonetics and phonology of Urdu
- Documented the phonemes of Urdu recorded from a native speaker of Urdu and described the phonological processes that occurred in the speech

## TALKS

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### **“Breaking the Brotopia: Demystifying Tech Internships”**

*Tanner Conference*

Wellesley, MA

*Oct 2019*

- Shared experiences with regarding working in heavily male-dominated environment at large technology companies

### **“The Art of Inventing Languages, a Guided How-To Panel Discussion”**

*Ruhlman Conference*

Wellesley, MA

*May 2019*

- Introduced how to build a language from the ground up and presented the phonetic sounds, the phonological structures, the word compositions, the syntax, and the culture of the designed language