

# Xiaomeng “Miranda” Zhu

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New Haven, CT 06511, USA

## OBJECTIVE

Second-year PhD student in Computational Linguistics seeking a Summer 2025 research internship in natural language processing. Aiming to advance (multimodal) large language models’ understanding abilities by leveraging cognitive and linguistic insights.

## SKILLS

**Research:** LLM training, fine-tuning, evaluation; Data collection, processing, statistical analysis, visualization

**Programming Languages:** Python, R, Java, JavaScript, Racket

**Frameworks:** PyTorch, TensorFlow, spaCy

## EDUCATION

### • Yale University

August 2023 - Expected 2029

PhD Student in Computational Linguistics

New Haven, CT

◦ Advisors: Robert Frank and R. Thomas McCoy

### • Wellesley College

September 2019 - May 2023

BA in Computer Science; Cognitive and Linguistic Sciences

Wellesley, MA

◦ GPA: 3.96/4.00; *summa cum laude*

## PUBLICATIONS

1. Y. Wang, W. Lyu, **X. Zhu**, S. Hassanpour, S. Vosoughi. IMPSCORE: A Learnable Metric For Quantifying The Implicitness Level of Language. *In Submission to ICLR 2025*.
2. **X. Zhu** and R. Frank. LIEDER: Linguistically-Informed Evaluation for Discourse Entity Recognition. *ACL 2024*.
3. **X. Zhu**. The Modified Mother Tongue: Examining Chinese Vowel Quality Shift in Chinese-Dominant Chinese-English Code-Switching Environments. *Honors Thesis, Wellesley College*.

## CONFERENCE PRESENTATIONS

1. **X. Zhu** and J. Shaw. A Dynamic Neural Field Model for Production Mode and Phonological Neighborhood Density Effects. *Symposium talk at LSA Annual Meeting 2025*.
2. K. Liu, **X. Zhu**, and C. Anderson. XiaoshuoNLP: An NLP Pipeline for Processing Chinese Literary Texts. *Poster presented at TADA 2023*.

## SELECTED RESEARCH EXPERIENCE

### • Graduate Researcher

August 2023 - Current

Computational Linguistics at Yale (CLAY)

- Investigate meaning representations in LLMs by training them on developmentally plausible corpora
- Develop challenge datasets for (multimodal) LLM evaluation, informed by theoretical research in cognitive science and linguistics
- Design and implement human experiments to establish performance baselines

### • Undergraduate Research Assistant

May 2022 - May 2023

Wellesley EASEL Lab

- Collected and annotated a dataset of Chinese literary works with tokens, part-of-speech tags, named entities, and coreference information
- Designed and implemented an NLP pipeline for processing literary texts, incorporating components that process literary elements such as embedded poetry and complex narrative structures

## FELLOWSHIPS AND AWARDS

Wu Tsai Institute Graduate Fellow, Yale University

2023

Sigma Xi, Wellesley College

2023

Phi Beta Kappa, Wellesley College

2023

## TEACHING

TA for Foundations of Computer Systems, Wellesley College

2022

TA for Front-End Web Development, Wellesley College

2020