Xiaomeng "Miranda" Zhu

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RESEARCH INTERESTS

My research centers on the following two questions:
- (i) How is meaning acquired and represented in large (multimodal) language models?
- (ii) How can we develop and evaluate natural language processing systems using linguistic insights?

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. 2024. IMPSCORE: A Learnable Metric For Quantifying The Implicitness Level of Language. *In submission to ICLR 2025.*

2. **X. Zhu** and R. Frank. 2024. LIEDER: Linguistically-Informed Evaluation for Discourse Entity Recognition. *ACL 2024.*

3. **X. Zhu**. 2023. 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 Linguistic Society of America (LSA) 2025 Annual Meeting.* Philadelphia, PA, USA.

2. K. Liu, **X. Zhu**, and C. Anderson. XiaoshuoNLP: An NLP Pipeline for Processing Chinese Literary Texts. *Poster presented at The New Directions in Analyzing Text as Data (TADA) 2023.* Amherst, MA, USA.

RESEARCH AFFILIATIONS

Yale CLAY Lab	2023 - present
Yale Phonetics Lab	2023 - present
Wellesley College EASEL Lab	2022 - 2023
MIT Experimental Syntax and Semantics Lab	2021 - 2022
Wellesley College Sociolinguistics Lab	2022
MIT Media Lab	2020

FELLOWSHIPS AND AWARDS

Wu Tsai Institute Graduate Fellow, *Yale University*	2023 - present
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

SERVICE

Yale Linguistics Department Colloquium Series	2024-2025
Co-organizer	

LANGUAGES AND SKILLS

Natural Languages: Mandarin Chinese (native), English (near-native), Spanish (intermediate)
Programming Languages: Python, Java, R, JavaScript, Racket
Frameworks: PyTorch, TensorFlow, spaCy