


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
◦ Advisors: Robert Frank and R. Thomas McCoy New Haven, CT
- **Wellesley College** September 2019 - May 2023
BA in Computer Science; Cognitive and Linguistic Sciences
◦ GPA: 3.96/4.00; *summa cum laude* Wellesley, MA

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, <i>Yale University</i>	2023 - present
Sigma Xi, <i>Wellesley College</i>	2023
Phi Beta Kappa, <i>Wellesley College</i>	2023

TEACHING

TA for Foundations of Computer Systems , <i>Wellesley College</i>	2022
TA for Front-End Web Development , <i>Wellesley College</i>	2020

SERVICE

Yale Linguistics Department Colloquium Series	2024-2025
<i>Co-organizer</i>	

LANGUAGES AND SKILLS

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