

Siyuan Song

Candidate for B.A. in Linguistics, University of Texas at Austin
siyuansong@utexas.edu — (+1)512-230-6335

EDUCATION

University of Texas at Austin , Texas, the US Candidate for B.A. in Linguistics Persuing Certificate in Advanced Maths	Aug 2024 — Present
Shanghai Jiao Tong University , Shanghai, China Candidate for B.A. in English(Linguistics), Transferred	Aug 2022 — Jun 2024

EXPERIENCE

UT Austin NeuroLinguistics Lab Undergraduate Research Assistant Advisor: Dr. Fernando Llanos	2025 — Present
Computational Linguistics Group, University of Texas at Austin Undergraduate Research Assistant Advisor: Dr. Kyle Mahowald	2024 — Present
The CoCoDev Lab at Harvard Psychology Visiting Undergraduate Research Intern Advisor: Dr. Jennifer Hu and Dr. Tomer Ullman	2024 Summer
The Computational Linguistics Lab at School of Foreign Languages, SJTU Undergraduate Research Assistant Advisor: Dr. Hai Hu	2023 — Present

PUBLICATIONS

Song, S., Hu, J.& Mahowald, K. Language Models Don’t Introspect About Their Knowledge of Language (in prep)

Zhu, H., Xu, M., Song, S., Liu, Y., Wang, Y.& Hu, H. A Preliminary Analysis of the Predicative Power of Surprisal in Reading Chinese (under peer review)

Hu, J., Wilcox, E., Song, S., Mahowald, K., & Levy, R. What Can String Probability Tell Us About Grammaticality? (under peer review)

Liu, Y., Shen, Y., Zhu, H., Xu, L., Qian, Z., Song, S., ... & Hu, H. (2024). ZhoBLiMP: a Systematic Assessment of Language Models with Linguistic Minimal Pairs in Chinese. arXiv preprint arXiv:2411.06096. (under peer review)

Yue, S., Song, S., Cheng, X., & Hu, H. Do Large Language Models Understand Conversational Implicature—A Case Study. In Chinese Computational Linguistics: 23rd China National Conference, CCL 2024, Taiyuan, China, July 25–28, 2024, Proceedings (p. 402). Springer Nature. (Highlight Paper, 6/284)

ONGOING PROJECTS

Linguistic Introspection of Large Language Models <i>Project Leader, Supervised by Dr.Kyle Mahowald and Dr.Jennifer Hu</i>	In Preparation September 2024 — Present
<ul style="list-style-type: none">Study whether large language models introspect in prompted acceptability judgmentsDesigned and built datasets of within-domain and out-of-domain sentencesConducted experiments and correlation analysis	
Minimal Pair String Probability Comparisons and Grammaticality <i>Research Assistant, Supervised by Dr.Jennifer Hu and Dr.Roger Levy</i>	Under Review May 2024 — Present
<ul style="list-style-type: none">Collected linguistic minimal pairs from previous studies on human acceptability judgmentsConducted experiments and examined the correlation between human acceptability and string probability	
Testing Language Models on Chinese Xiehouyu Tasks <i>Project Leader, supervised by Dr. Hai Hu</i>	In Preparation September 2023 — September 2024
<ul style="list-style-type: none">Initiated a research project focusing on <i>Xiehouyu</i> (a type of language riddle in Chinese)Compared high-frequency and low-frequency <i>Xiehouyu</i>Categorized <i>Xiehouyu</i> into three types: direct, polysemy and homophonyDesigned three tasks to evaluate the reasoning ability of the Large Language Model	