

LANNI BU

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EDUCATION

Georgetown University	Washington, DC
M.S. Computational Linguistics	09/2024 - 05/2026
Qingdao University	Qingdao, Shandong
B.A. Language and Big Data	09/2020 - 07/2024
Leiden University	Leiden, Netherlands
Summer school	07/2023
University of Crete	Crete, Greece
Summer school	07/2024

RESEARCH INTERESTS

Broadly, my research focuses on computational linguistics and natural language processing, especially on discourse and cognitive modeling. I am particularly interested in using computational methods to investigate linguistic and cognitive questions.

Language model evaluation

- Designing linguistically motivated benchmarks to probe LLMs' discourse and structural understanding.

Cognitive modeling of language comprehension

- Studying model-human differences in comprehension and developing cognitively inspired modeling architectures.

RESEARCH EXPERIENCES

Georgetown University	2024 – Now
Corpus Linguistics Lab (Corpling), PI: Amir Zeldes	
Georgetown University	2024 – Now
Psycholinguistics, Information, and Computation Lab (PICoL), PI: Ethan Gotlieb Wilcox	

WORKING EXPERIENCES

Tyche Partners	Los Altos, California
Data Intern	Summer 2023
– Assisted with data organization and cleaning using Python and Excel.	

PUBLICATIONS AND PREPRINTS

Lanni Bu, Lauren Levine, Amir Zeldes. *DiscoTrack: A Multilingual LLM Benchmark for Discourse Tracking*. Preprint, 2025. Submitted to EACL (under review) [\[paper\]](#)

Xiulin Yang, Zhuoxuan Ju, **Lanni Bu**, Zoey Liu, Nathan Schneider. UD-English-CHILDES: A Collected Resource of Gold and Silver Universal Dependencies Trees for Child Language Interactions. *Proceedings of the Eighth Workshop on Universal Dependencies (UDW, SyntaxFest 2025)*. [\[paper\]](#) [\[resource\]](#)

OTHER PROJECTS

Zhuoxuan Ju, **Lanni Bu**, Dagny Whall, Vattana Chan. *Dependency-Based and Constituency-Based Inductive Biases for BabyLM: Comparison and Analysis*. Manuscript, 2024. [\[paper\]](#) [\[poster\]](#)

RELEVANT COURSEWORK

Linguistics

- Introduction to Linguistics; Syntax; Semantics; Phonetics and Phonology
- Corpus Linguistics; Experimental Psycholinguistics; Historical Linguistics

Computational & Mathematics

- Advanced mathematics; Discrete Mathematics; Data Structure basis; Probability Theory
- Machine Learning

Computational Linguistics

- Natural Language Processing; Empirical Natural Language processing; Information Structure & Lang; Computational Corpus Linguistics

SKILLS

Language: Mandarin Chinese (Native), English (Proficient)

Coding: Python (PyTorch, Transformers, pandas), R(lme4, tidyverse, ggplot2), LaTeX, Hugging Face