

# LANNI BU

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## EDUCATION

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

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

## WORKING EXPERIENCES

<b>Tyche Partners</b> Data Intern	Los Altos, California 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

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### 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

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

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