

# Junghyun Min

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## SUMMARY

Computational linguistics PhD student with comprehensive expertise in NLP and language data science across academia and industry. Developed structure-aware generative and discriminative AI solutions for financial documents at NCSoft, leverage multi-modal LLMs as models of language and linguistic theory at Georgetown University, with research interest in human and computational representations of structure in language. Authored three impactful research publications focused on language model robustness and reliability at ACL, BlackboxNLP, and RepL4NLP. Eager to leverage this extensive research and engineering background to advance cutting-edge AI initiatives both in theory and in practice.

## WORK EXPERIENCE

### NCSoft

Seongnam, Korea

NLP Engineer, Financial Language Understanding

Jan 2021 – Apr 2024

- Developed and served fast, light, and accurate chunking system by concatenating word embeddings. Implemented asynchronously with FastAPI in Python. API processes 10k requests per second on <4GB VRAM at 96% acc.
- Designed a granularity control algorithm for financial information extraction, improving performance by 10 points.
- Proposed punctuation restoration as pre-training objective, improving LLM performance across 13 NLU datasets.
- Led mentorships for the Center's 2022 Language AI Global Summer Internship program with 10+ interns.

### Harford Community College

Bel Air, MD

Data Analyst, Analytics & Planning

Apr 2018 – Jul 2019

- Distilled expert insight in student retention and success in machine learning models with ~80% accuracy in Wolfram.
- Automated edit checks and recurring data reports in SAS, SQL, leading to 20% increase in request processing volume.

## EDUCATION

### Georgetown University

Washington, DC

Linguistics and Computer Science Doctor of Philosophy.

Exp. 2029

### Johns Hopkins University

Baltimore, MD

Cognitive Science Master of Arts. Focus on Computational approaches to linguistics.

Dec 2020

### Johns Hopkins University

Baltimore, MD

Physics Bachelor of Science. Mathematics, secondary major. Quantum mechanics track.

Dec 2017

## PUBLICATIONS

- **Junghyun Min**, Minhoo Lee, Woochul Lee, Yeonsoo Lee. RepL4NLP at NAACL 2025. Punctuation restoration improves structure understanding without supervision. [Poster](#). [Tech blog \(Korean\)](#).
- **Junghyun Min**, R. Thomas McCoy, Dipanjan Das, Emily Pitler, and Tal Linzen. ACL 2020. Syntactic data augmentation increases robustness to inference heuristics.
- R. Thomas McCoy, **Junghyun Min**, and Tal Linzen. BlackboxNLP at EMNLP 2020. BERT's of a feather do not generalize together: Large variability in generalization across models with similar test set performance.

## PROJECTS

- Lead engineer for ai.ly, a GPT-2 based, personalized AI lyricist. 50k visits over 3 months of service. [Hip-hop sample](#).
- Technical lead for wecommit's prototype genDOC, an LLM-powered document automation solution for startups.
- WIP: Measuring the redundancy between syntactic structure and prosodic design by leveraging information theory.

## SKILLS

**Programming Languages:** Python (proficient), Java, JavaScript, C++, R, Unix shell, SAS, SQL, Wolfram.

**Tools and Libraries:** PyTorch, TensorFlow, transformers. Flask, FastAPI, async., GCP, Docker, Hydra.

**LLM Use:** OpenAI, LangChain, prompt engineering. vLLM, quantization, distributed training.

**Natural Languages:** Korean (Standard, Busan), English, German, Chinese (Mandarin)

For Summer 2025, I am authorized to work for any employer in the United States, in Canada, and in South Korea.