

Woo Jin Choi

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wchoi20.github.io

EDUCATION

Johns Hopkins University

Bachelor of Science

Baltimore, MD

2018 – 2024 (expected)

- B.S. in Computer Science and Cognitive Science, Minor in Psychology (GPA: 3.77 / 4.0)
- Concentration: Linguistics / Computational Approaches to Cognition
- 2019 – 2021, Compulsory Military Service. Served as a sergeant in Republic of Korea Air Force

RESEARCH EXPERIENCES

Undergraduate Research Assistant

Semantics Lab (Advisor: Prof. Kyle Rawlins)

Baltimore, MD

August 2023 – Present

- Assisting a research project about how to represent and model questions in natural language discourse, involving annotation of naturalistic data and computational modeling based on the QUD framework

Undergraduate Research Assistant

Center for Language and Speech Processing (Advisor: Prof. Benjamin Van Durme)

Baltimore, MD

May 2023 – Present

Project: LLM-Assisted Annotation for Level-of-Evidential-Support Annotation

- Developing a system that uses a large language model (LLM) to assist with annotation of level-of-evidential-support data by decomposing claims and leveraging document retrieval systems

Course Project

Course: AS.050.371 (Semantics I)

Baltimore, MD

September 2023 – November 2023

Project: Factivity and Veridicality in Korean Predicates

- Analyzing the inference projection of clause-embedding predicates (cognitive, emotive, etc.) in Korean

Course Project

Course: EN.601.471 (Natural Language Processing: Self-Supervised Models)

Baltimore, MD

March 2023 – May 2023

Project: Investigating Quantity and Quality of Human Feedback in RLHF

- Trained multiple BERT as reward models and fine-tuned GPT-2 using reinforcement learning to investigate the effect of quantity and quality of human feedback in the RL loop

Course Project

Course: AS.050.325 (Phonology I)

Baltimore, MD

March 2023 – May 2023

Project: Reinvestigating the Merger of Mid-Front Vowels in Seoul Korean

- Collected and analyzed recordings of native Korean speakers pronouncing minimal pairs in mid-front vowels
- Extracted auditory data using Praat, performed statistical model analysis using R

OTHER EXPERIENCES

Treasurer

Omega Psi (Cognitive Science Undergraduate Society at JHU)

Baltimore, MD

August 2021 – Present

Simulations Team

JHU Delineo Disease Modeling

Baltimore, MD

August 2022 – December 2022

Turbine-Aerodynamics Team

Hopkins Student Wind Energy Team

Baltimore, MD

September 2021 – May 2022

TECHNICAL SKILLS

- Programming Languages: Python, C/C++, JAVA, R
- Other Technical Skills: PyTorch, LaTeX, Praat
- Natural Language: Korean (native), English (fluent)