Woo Jin Choi

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wchoi20.github.io

EDUCATION

Johns Hopkins University — Baltimore, MD
Bachelor of Science — 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 the Republic of Korea Air Force

RESEARCH EXPERIENCES

Undergraduate Research Assistant — Baltimore, MD
Semantics Lab (Advisor: Dr. Kyle Rawlins) — 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 — Baltimore, MD
Center for Language and Speech Processing (Advisor: Dr. Benjamin Van Durme) — 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 the annotation of level-of-evidential-support data by decomposing claims and leveraging document retrieval systems

Course Project — Baltimore, MD
Course: AS.050.371 (Semantics I) — September 2023 – November 2023
Project: Factivity and Veridicality in Korean Predicates

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

Course Project — Baltimore, MD
Course: EN.601.471 (Natural Language Processing: Self-Supervised Models) — 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 — Baltimore, MD
Course: AS.050.325 (Phonology I) — 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 — Baltimore, MD
Omega Psi (Cognitive Science Undergraduate Society at JHU) — August 2021 – May 2023

Simulations Team — Baltimore, MD
JHU Delineo Disease Modeling — August 2022 – December 2022

Turbine-Aerodynamics Team — Baltimore, MD
Hopkins Student Wind Energy Team — September 2021 – May 2022

TECHNICAL SKILLS

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