Jungsoo Park

Email: jpark3272@gatech.edu
Website: https://jjumssu.github.io/
Google Scholar: iexIxAMAAAAJ&hl

Education

Georgia Institute of Technology — Atlanta, USA
Doctor of Philosophy in Computer Science — Aug. 2024–Present

Korea Univerity — Seoul, Korea
Master of Engineering in Software — Mar. 2019–Aug. 2021

Korea Univerity — Seoul, Korea
Bachelor of Economics in Statistics — Mar. 2013–Feb. 2019
Bachelor of Science in Computer Science & Engineering

Publications

[1] **Jungsoo Park**, Junmo Kang, Gabriel Stanovsky, and Alan Ritter, "Can llms help uncover insights about llms? a large-scale, evolving literature analysis of frontier llms", in *Association for Computational Linguistics*, 2025.

[2] **Jungsoo Park**, Ethan Mendes, Gabriel Stanovsky, and Alan Ritter, "Look before you leap: Estimating llm benchmark scores from descriptions", *arXiv preprint arXiv:2509.20645*, 2025.

[3] Mujeen Sung, **Jungsoo Park**, Jaewoo Kang, Danqi Chen, and Jinhyuk Lee, "Optimizing test-time query representations for dense retrieval", *Empirical Methods in Natural Language Processing-Findings*, 2023.

[4] Jimin Hong, **Jungsoo Park**, Daeyoung Kim, Seongjae Choi, Bokyung Son, and Jaewook Kang, "Empowering sentence encoders with prompting and label retrieval for zero-shot text classification", *arXiv preprint*, 2022.

[5] **Jungsoo Park**, Gyuwan Kim, and Jaewoo Kang, "Consistency training with virtual adversarial discrete perturbation", in *North American Chapter of the ACL*, 2022.

[6] **Jungsoo Park**, Sewon Min, Jaewoo Kang, Luke Zettlemoyer, and Hannaneh Hajishirzi, "Faviq: Fact verification from information-seeking questions", in *Association for Computational Linguistics*, 2022.

[7] Gangwoo Kim, Hyunjae Kim, **Jungsoo Park**, and Jaewoo Kang, "Learn to resolve conversational dependency: A consistency training framework for conversational question answering", in *Association for Computational Linguistics*, 2021.

[8] **Jungsoo Park**, Mujeen Sung, Jinhyuk Lee, and Jaewoo Kang, "Adversarial subword regularization for robust neural machine translation", in *Empirical Methods in Natural Language Processing-Findings*, 2020.

Research Experience

Georgia Institute of Technology — Atlanta, Georgia
Ph.D. Student — Aug. 2024–Present

- Conducting research on leveraging large language models (LLMs) to accelerate scientific discovery—for example, by extracting experimental results from scientific literature and aggregating them to uncover new insights
- Developing multimodal large language models to more effectively synthesize and interpret multimodal data in the scientific domain

University of Washington — Seattle, USA
Research Intern — Feb. 2021–Jul. 2021

- Developed a challenging fact-verification dataset comprising claims and corresponding labels by leveraging information-seeking question-answer pairs
- Conducted research employing a noisy-channel approach to address challenges in question answering and natural language inference tasks

NAVER Corporation Seongnam, Korea
Research Intern Jul. 2020–Dec. 2020

- Investigated and analyzed the most optimal augmentation techniques tailored for few-shot semi-supervised classification tasks

Korea University Seoul, Korea
Master's Degree Researcher Jun. 2018–Aug. 2021

- Conducted research focused on optimizing query representations during test time to enhance efficiency and accuracy in dense retrieval systems
- Explored the application of consistency training frameworks to address conversational dependency challenges
- Investigated methods to enhance Neural Machine Translation models by employing adversarial augmentations within subword tokenizations

Work Experience

Georgia Institute of Technology Atlanta, Georgia
Graduate Research Assistant Aug. 2024–Present

- Support faculty-led research projects through a variety of academic and technical tasks
  - Lead a research project on automated literature analysis using large language models (LLMs) to uncover insights about the capabilities and behavior of LLMs themselves
  - Assist with a funded research project focused on surveying the costs associated with training AI models

NAVER Corporation Seongnam, Korea
Applied Scientist Jul. 2021–Aug. 2024

- Key contributor to the development of a foundational vision-language model: Hyperclova-X-Vision
  - Sub-lead on tasks focused on improving visual entity recognition, visual instruction following, and chart comprehension
  - Designed and implemented an open-ended evaluation framework to assess the multimodal model's capabilities comprehensively
- Key contributor to the development of an AI agent-based writing tool service based on large language models
  - Employed modeling strategies to ensure the model's safety and mitigate potential risks during writing
  - Researched and developed retrieval-augmented writing for improving factual consistency
- Key contributor to the development of a general domain text embedding API
  - Trained a multi-lingual sentence encoder adaptable for various applications, including retrieval and clustering tasks
  - Constructed a resilient classifier leveraging sentence encoders and label prompts augmented through retrieval techniques

Scholarships and Awards

- Full Scholarship for all semesters attended at graduate school of Korea University Mar. 2019–Jun. 2021
- Great Honor in Graduation at Korea University Feb. 2019
- Full Scholarship for all semesters attended at Korea University Mar. 2013–Feb. 2019
- Anam Scholarship (admission with highest distinction) at Korea University Mar. 2013

Teaching

- **Research Mentor** August 2022
  Researched building robust zero-shot classifier using sentence encoder and retrieval-augmented label prompts
- **Tutoring Mentor** at Korea University Spring 2018
  Tutored international students in mathematical statistics and elementary statistics

Service

Mandatory Military Service Apr. 2014-Apr. 2016
Republic of Korea Air Force

Reviewer
ACL-IJCNLP (2021), EMNLP (2021, 2022, 2023), ARR