

# Jungsoo Park

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## EDUCATION

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<b>Georgia Institute of Technology</b> Doctor of Philosophy in Computer Science	Atlanta, USA Aug. 2024–Present
<b>Korea Univerity</b> Master of Engineering in Software	Seoul, Korea Mar. 2019–Aug. 2021
<b>Korea Univerity</b> Bachelor of Economics in Statistics Bachelor of Science in Computer Science & Engineering	Seoul, Korea Mar. 2013–Feb. 2019

## PUBLICATIONS

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- [1] 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.
- [2] 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.
- [3] **Jungsoo Park**, Gyuwan Kim, and Jaewoo Kang, “Consistency training with virtual adversarial discrete perturbation”, in *North American Chapter of the ACL*, 2022.
- [4] **Jungsoo Park**, Sewon Min, Jaewoo Kang, Luke Zettlemoyer, and Hannaneh Hajishirzi, “Faviq: Fact verification from information-seeking questions”, in *Association for Computational Linguistics*, 2022.
- [5] 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.
- [6] **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

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<b>Naver Clova</b> Research Intern	Seongnam, Korea Jul. 2020–Dec. 2020
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- Investigated and analyzed the most optimal augmentation techniques tailored for few-shot semi-supervised classification tasks

<b>University of Washington</b> Research Intern (remote)	Seattle, USA Feb. 2021–Jul. 2021
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- 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.

<b>Korea University</b> Master’s Degree Researcher	Seoul, Korea Jun. 2018–Aug. 2021
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- 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

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**Naver Clova**  
Applied Scientist

Seongnam, Korea  
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

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- 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

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- **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

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**Mandatory Military Service**  
Republic of Korea Air Force

Apr. 2014-Apr. 2016

**Reviewer**

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