

# Hyunjae Suh

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Ph.D. Student  
University of California, Irvine  
hyunjas@uci.edu

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## RESEARCH EXPERIENCE

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### Ph.D. Student

University of California, Irvine

Irvine, CA

Sep 2023–Present

- Working as a Ph.D. student in Software Engineering & Testing Using Artificial Intelligence for Reliable Software (STAIRS) laboratory.
- Conducting research focused on machine learning in software engineering.

Irvine, CA

Jul 2022–Aug 2023

### Undergraduate Research Assistant

University of California, Irvine

- Participated in an international research program where I was advised by Professor Iftekhar Ahmed.
- Managed the project aimed at utilizing language models and transformers on various software engineering tasks.
- Implemented machine learning codes where transformers are fine-tuned with different combinations of tasks to check their impact on the final task's performance.

### Undergraduate Research Assistant

Natural Language Processing Laboratory, Kookmin University

Seoul, South Korea

Jul 2021–Aug 2022

- Worked as an undergraduate research assistant under the guidance of Professor Seung-Shik Kang.
- Conducted projects on natural language processing, working on numerous related topics such as language models, hate speech detection, word embedding and part-of-speech tagging.
- Created large-scale Korean hate speech corpus and utilized Korean pre-trained language models to build hate speech detection models.
- Devised and applied various part-of-speech tagging methods on head-tail tokenization for Korean corpus and analyzed their performance.

### Undergraduate Research Assistant

HCI Laboratory, Kookmin University

Seoul, South Korea

Sep 2022–Dec 2022

- Conducted research on large-scale subspace clustering.
- Implemented autoencoder network for deep subspace clustering.

## INDUSTRY EXPERIENCE

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### Ebay

Graduate Research Assistant

San Jose, CA (Remote)

Aug 2023–Dec 2023

- Worked on automated commit message generation using large language models.
  - Utilized LangChain to execute a pipeline for generating commit messages.
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## EDUCATION

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### UNIVERSITY OF CALIFORNIA, IRVINE

Ph.D. in Software Engineering

Irvine, CA

Sep 2023-Present

### KOOKMIN UNIVERSITY

Bachelor of Science in Computer Science

Seoul, South Korea

Mar 2017-Aug 2023

### KOREA UNIVERSITY

Domestic Exchange Student

Seoul, South Korea

Mar 2022-Aug 2022

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## PUBLICATIONS

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**Hyunjae Suh**, Jung-min Kim, Seung-Shik Kang, “Korean Part-Of-Speech Tagging using Head-Tail Tokenization”. Smart Media Journal, 2022.

**Hyunjae Suh**, Jung-Min Kim, Seung-Shik Kang, “Korean Head-Tail POS Tagger using TnT Tagger”, Proceedings of Autumn Conference, Korean Institute of Smart Media, 2021.

Jung-Min Kim, **Hyunjae Suh**, Seung-Shik Kang, “Korean Head-Tail POS Tagger by using Transformer” Proceedings of The 33rd Annual Conference on Human & Cognitive Language Technology, Korean Institute of Information Scientists and Engineers, 2021.

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## HONORS AND AWARDS

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Academic Scholarship (2022)

- Awarded to top 5% students among the computer science department.

Software Freshman Scholarship (2017)

- Awarded to distinguished freshmen students in the computer science department.

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## TEACHING EXPERIENCE

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### Teaching Assistant

University of California, Irvine

- In4matx 115 - Software Testing, Analysis, and Quality Assurance
- ICS 10 - How Computers Work
- ICS 32 - Programming with Software Libraries

Fall 2023

Winter 2024

Spring 2024