

# Sangam Lee

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## Education

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<b>Ph.D Student, Yonsei University</b> <ul style="list-style-type: none"><li>• Data &amp; Language Intelligence Lab (Advisor: Prof. Dongha Lee)</li></ul>	Mar. 2024 – Present
<b>B.S., Computer Science &amp; Engineering, SEOULTECH</b> <ul style="list-style-type: none"><li>• Department of Computer Science and Engineering</li></ul>	Mar. 2018 – Feb. 2024
<b>B.S., Business Administration, SEOULTECH</b> <ul style="list-style-type: none"><li>• Department of Business Administration[Global Technology Management]</li></ul>	Mar. 2017 – Feb. 2024

## Research Experience

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<b>Graduate Student Researcher, Yonsei University</b> <ul style="list-style-type: none"><li>• Data &amp; Language Intelligence Lab (Advisor: Prof. Dongha Lee)</li><li>• Research on Information Retrieval and Natural Language Processing</li></ul>	Jul. 2023 – Present
<b>Research Intern, Seoul National University Hospital</b> <ul style="list-style-type: none"><li>• Biomedical Informatics (BMI) Lab</li><li>• Researching language models and systems (eg. T5, RAG) that automatically mapping written medical record text into SNOMED-CT codes.</li><li>• Conducted research on TCR-BERT, a model that encodes information about the protein sequence of the T-cell receptor.</li></ul>	Feb. 2023 – Jul. 2023
<b>Undergraduate Research Intern, SEOULTECH</b> <ul style="list-style-type: none"><li>• Service Management Lab</li></ul>	Jan. 2022 – Apr. 2022

## Publications

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### Imagine All The Relevance: Scenario-Profiled Indexing with Knowledge Expansion for Dense Retrieval

Sangam Lee, Ryang Heo, SeongKu Kang, Dongha Lee  
arXiv, 2025

### EpicPred: predicting phenotypes driven by epitope-binding TCRs using attention-based multiple instance learning

Jaemin Jeon, Suwan Yu, Sangam Lee, Sang Cheol Kim, Hye-Yeong Jo, Inuk Jung, Kwangsoo Kim  
Bioinformatics, 2025

### Why These Documents? Explainable Generative Retrieval with Hierarchical Category Paths

Sangam Lee, Ryang Heo, SeongKu Kang, Susik Yoon, Jinyoung Yeo, Dongha Lee  
arXiv, 2024

### Small language models are equation reasoners

Bumjun Kim, Kunha Lee, Juyeon Kim, Sangam Lee  
arXiv, 2024

## WORK EXPERIENCE

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<b>Education Mentor, Grepp, Inc.</b> <ul style="list-style-type: none"><li>• Programmers 5th AI dev-course mentor</li><li>• Answered students' questions about the class, and managed and checked the github repository for assignment submissions.</li></ul>	Mar. 2023
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**Project Intern, Wonderful Platform, Inc.**

Jul. 2022 – Sep. 2022

- Participated as an intern in the project "AI Convergence Public Safety and Rapid Response Support Project"
- A project aimed at building a process that can automatically identify missing persons in CCTV images based on object detection models such as YoloV5
- Build model training datasets and manage data ingestion processes and database

**EXTRACURRICULAR ACTIVITY**

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**Member & Committee, Student Association Club BOAZ**

Jul. 2023 – Jul. 2024

- 21th member & committee of BOAZ, a big data alliance club, performing data analytics and data engineering-related activities

**Member, Student Association Club BITAmin**

Feb. 2022 – Feb. 2023

- 9th member of BITAmin, a big data alliance club, performing data analytics-related activities
- Develop BSINSA,, NLP Recommendation System Based Fashion E-Commerce Platform Demo built with Pytorch, Huggingface, React, Express, FastAPI
- Teach club members about git and github

**Student Representative, SEOULTECH**

Dec. 2020 – Nov. 2021

- The 10th President of the Global Technology management major of Business Administration, Seoul National University of Science and Technology (SEOULTECH)

**AWARDS AND HONORS**

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**Grand Prize, Yongin City SW/AI Hackathon**

Oct. 2023

- Yongin Industry Promotion Agency, Korea

**3rd Award, ETRI Open API Use Case Contest**

Oct. 2022

- ETRI, Korea