

# Dongsuk Jang

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## Education

- **Seoul National University(Advisor: Jinwook Choi)** Seoul, Korea  
*M.S. Interdisciplinary Program in Bioengineering* Mar 2023 - Feb 2026  
*Research Interests: Natural Language Processing, Multimodal AI, Medical AI*
- **Yale University(Advisor: Arman Cohan)** New Haven, CT, USA  
*YaleNLP Group, Department of Computer Science* Nov 2024 - Aug 2025
- **Sungkyunkwan University** Suwon, Korea  
*B.S. Integrative Biotechnology* Mar 2015 - Feb 2023  
*Micro Degree Core-Bio A-School Track*
- **Haeundae Highschool** Busan, Korea  
*Established CBC(Chemical Biology Club), 3 years in Mathematical Essay Club* Mar 2012 - Feb 2015

## PUBLICATIONS

- **YaleNLP @ PerAnsSumm 2025: Multi-Perspective Integration via Mixture-of-Agents for Enhanced Healthcare QA Summarization**  
Dongsuk Jang, Alan Li, Arman Cohan  
CL4Health Workshop at NAACL 2025
- **LoraMap: Harnessing the Power of LoRA Connections.**  
Hyeryun Park, Jeongwon Kwak, Dongsuk Jang, Sumin Park, Jinwook Choi  
Under Review at SIGIR 2025. [\[pdf\]](#)
- **Automated Information Extraction from Thyroid Operation Narrative: A Comparative Study of GPT-4 and fine-tuned KoELECTRA**  
Dongsuk Jang<sup>†</sup>, Hyeryun Park<sup>†</sup>, Jiye Son, Hyeonuk Hwang, Su-jin Kim, Jinwook Choi  
American Medical Informatics Association, Informatics Summit. 2024. [\[pdf\]](#)

## Projects

- **Table to Text Generation task research (Dec 2023 - Present):** Table to Text generation research comparing Seq2Seq models with Hierarchical Encoder and diverse LLM finetuning methods(PEFT) such as QLoRA, etc.
- **Natural Language Search System on Clinical Data Warehouse (Feb 2024 - Present):** Development of a search system that answers doctor's natural language questions about patient info. Converting medical natural language questions into best sql queries.
- **Automatic Generation of Thyroid Operation Records on Web(Mar 2023 - Feb 2024):** Development of a web-based system (voice recognition using CLOVA Note, extraction of clinical info with KoELECTRA, normalization of extracted results, image generation) and comparison with GPT-4 few-shot setting.
- **CNN Image Classification Project(Mar 2023 - May 2023):** Building basic CNN Image classification model that classifies sports balls vs human faces.
- **Word2Vec from Scratch(May 2023 - Aug 2023):** Study the principle of word2vec and build up from scratch. Train the own model with the book 'Alice in Wonderland' and compare performance with original word2vec library.
- **Winter Internship Project(Dec 2022 - Feb 2023):** Compare the performance of various models(m-LSTM as baseline, BERT based models such as BioELECTRA, DeBERTa, PubMedBERT, RoBERTa etc.) MedNLI Task with MIMIC-III Dataset and find out the best parameter settings.

## Experience

- **Student Intern, Samsung Advanced Institute for Health Sciences and Technology:** Mar 2021 - Dec 2022
  - **About:** I started studying computer science subjects for the first time, realizing that much research in biology and medicine is also happening through the use of computers, which sparked a great curiosity and had the biggest influence on my current career choice.
  - **Advisor:** Seonguk Seo(03/2021-05/2022), Wonchul Cha(06/2022-12/2022)
- **Research Intern, Liflex Science Inc.:** Jun 2022 - Aug 2022

- **About:** With a great interest in entrepreneurship and business, worked as an intern at a startup company, learning about the overall practical aspects of a startup, especially in investment acquisition and R&D. Realized that more important than novel ideas is to concretize them and develop them into a business.
- **Supervisor:** Jinhong Kim, Dongsoon Ahn
- **Military Service, Korean Augmentation to the United States Army, USAG-Daegu:** Jan 2018 - Sep 2019
  - **About:** Worked alongside the Korean and American military, understanding and coordinating the differences between each military and culture. Additionally, learned how to live a proactive life based on strong physical fitness and a regulated lifestyle.
  - **Role:** Human Resources Specialist(42A) & Senior KATUSA

## Honors and Awards

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- **2nd Place in PerAnsSumm Shared Task at CL4Health @ NAACL 2025**
- **Biomedical Global Talent Nurturing Program**  
Funded \$40,000 for biomedical engineers who will lead national society, Korea Health Industry Development Institute from Oct 2024 to Aug 2025
- **Next Generation BioHealth Leader Award at Sungkyunkwan University** — Feb, 2023
- **Best Intern Award at Samsung Advanced Institute for Health Sciences and Technology** — August, 2021
- **Commandants list at KATUSA training academy** — April, 2018

## Teaching Assistant

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- **Computer Assisted Medical Data Processing in the Department of Medicine** 2024  
*Python Basics, Data Analysis and Machine Learning(breast cancer dataset)*
- **Selective Course for undergraduate students in the Department of Medicine** 2023  
*Python Basics, Data Analysis using pandas(breast cancer dataset), ANN classification(breast cancer dataset)*

## Professional Services

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- Reviewer for the AMIA 2024 Annual Symposium

## Skills Summary

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- **Languages:** Python, R, Matlab, SQL
- **Frameworks:** Pytorch
- **Tools:** Git, Docker
- **Platforms:** Linux(Ubuntu), Windows
- **Soft Skills:** Leadership, Writing, Time Management