

Dongsuk Jang

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EDUCATION

Seoul National University , Seoul, Korea MedInfoLab M.S. in Interdisciplinary Program in Bioengineering (Advisor: Jinwook Choi)	Mar 2023 – Feb 2026
Yale University , New Haven, CT, USA YaleNLP Visiting Student, Department of Computer Science (Advisor: Arman Cohan)	Oct 2024 – Sep 2025
Sungkyunkwan University , Suwon, Korea B.S. in Integrative Biotechnology (Micro Degree in Core-Bio A-School Track)	Mar 2015 – Feb 2023

PUBLICATIONS

- [1] **Dongsuk Jang**, Kyle Tegtmeier, Muhammad Qureshi, Anurag Gupta, Ziyao Shangguan, Sophie Chheang, Arman Cohan. Retrieval-Augmented Structured Reporting for Radiology Workflow Integration. SIIM-CAIMI 2025.
- [2] **Dongsuk Jang**, Ziyao Shangguan, Kyle Tegtmeier, Anurag Gupta, Jan Czereminski, Sophie Chheang, Arman Cohan. MedTutor: A Retrieval-Augmented LLM System for Case-Based Medical Education. EMNLP 2025 System Demo. [\[PDF\]](#)
- [3] **Dongsuk Jang**, Alan Li, Arman Cohan. Multi-Perspective Integration via Mixture-of-Agents for Enhanced Healthcare QA Summarization. CL4Health Workshop @ NAACL 2025. [\[PDF\]](#)
- [4] Hyeryun Park, Jeongwon Kwak, **Dongsuk Jang**, Sumin Park, Jinwook Choi. LoraMap: Harnessing the Power of LoRA Connections. arXiv preprint 2024. [\[PDF\]](#)
- [5] **Dongsuk Jang**[†], Hyeryun Park[†], Jiye Son, Hyeonuk Hwang, Su-jin Kim, Jinwook Choi. Automated Information Extraction from Thyroid Operation Narrative: A Comparative Study of GPT-4 and Fine-Tuned KoELECTRA. AMIA Informatics Summit 2024. [\[PDF\]](#)

PROJECTS

ResearchGym: A Benchmark to Assess Agents across the Full Research Lifecycle Engineered ResearchGym, a novel benchmark to address the critical gap between ideation and execution in LLM-driven research. Curated 10 challenging tasks from premier AI/ML conferences and implemented a lightweight, Gym-style API to ensure agents are evaluated on objective performance metrics. To be submitted to ARR, Jan 2026.	Aug 2025 – Present
Evidence-Aware Generative Reranker for Medical and Scientific Domain Designed and developed a specialized, evidence-aware generative reranker to meet the critical needs of medical and scientific RAG systems. The model aims to improve the relevance and accuracy of retrieved documents, significantly enhancing the overall performance and reliability of RAG pipelines. To be submitted to ARR, Jan 2026.	Jun 2025 – Present
Tennis Swing Motion Analysis System [Link] Developed an end-to-end system for analyzing tennis swings from user-uploaded videos, leveraging MediaPipe for pose estimation. Implemented an LSTM-based model to classify forehand and backhand strokes and provide performance feedback by comparing user motions to reference techniques.	Oct 2024 – Dec 2024
Table-to-Text Generation for Clinical Decision Support Led a full-cycle project to mitigate clinician cognitive load by generating natural language summaries from complex prescription tables. Directed the creation of a ground-truth dataset using Seoul National University Hospital data and systematically evaluated traditional Seq2Seq architectures against modern LLMs fine-tuned with PEFT.	Dec 2023 – Jul 2024
Natural-Language Search System on Clinical Data Warehouse Collected doctors' questions, converted them to executable SQL, and validated answers to enable bedside, natural-language access to patient information.	Feb 2024 – Jun 2024
Automatic Generation of Thyroid Operation Records on Web [Video] Led the model development lifecycle to automate the creation of structured thyroid operation records from voice-recorded surgical notes. Trained and rigorously evaluated a fine-tuned KoELECTRA model to ensure high-accuracy clinical information extraction.	Mar 2023 – Feb 2024

Word2Vec from Scratch [\[GitHub\]](#) May 2023 – Aug 2023
Constructed a Word2Vec model from scratch to deeply understand its underlying principles. Trained the model on the ‘Alice in Wonderland’ text and benchmarked its performance against the original library’s implementation to analyze and compare results.

Evaluating Transformers for Clinical Natural Language Inference [\[GitHub\]](#) Dec 2022 – Feb 2023
Conducted a comparative performance analysis of various models, including m-LSTM and multiple BERT-based architectures, on the MedNLI task with the MIMIC-III dataset. Identified and implemented optimal parameter settings to achieve the best performance.

EXPERIENCE

Student Intern, Samsung Advanced Institute for Health Sciences and Technology Mar 2021 – Dec 2022
Acquired foundational skills in Python and Natural Language Processing, applying them to conduct preliminary research on analyzing biomedical text data under expert mentorship.

Military Service, Korean Augmentation to the U.S. Army (KATUSA) Jan 2018 – Sep 2019
Managed human resources and administrative operations for a multinational military unit, developing strong organizational and cross-cultural communication skills.

HONORS AND AWARDS

BK21 Research Scholarship, Seoul National University 2025
A competitive, government-funded scholarship for outstanding graduate students.

2nd Place in PerAnsSumm Shared Task at CL4Health @ NAACL [\[Link\]](#) 2025

Biomedical Global Talent Nurturing Program [\[Link\]](#) 2024
Awarded a \$30,000 grant by the Korea Health Industry Development Institute for visiting research opportunity.

2nd Place, Seochu YES 5th Startup Pitching Competition [\[Link\]](#) 2024
Selected for the competitive startup incubation program and secured grant funding for project development.

Selected Team, 6th SNU Haedong Junior Startup Program 2024

Next Generation BioHealth Leader Award, Sungkyunkwan University 2023

Best Intern Award, Samsung Advanced Institute for Health Sciences and Technology 2021

Commandant’s List, KATUSA Training Academy 2018

PROFESSIONAL SERVICES

Reviewer for the Oct ARR 2025 2025

Lead Graduate Student, MEDINFO Lab, Seoul National University Sep 2025 – Present

Local organizer for NENLP 2025 [\[Link\]](#) 2025

Reviewer for the AMIA 2025 Annual Symposium, Informatics Summit 2024

SKILLS SUMMARY

Languages

Python, SQL, C/C++, R, Matlab

ML/DL Frameworks

PyTorch, TensorFlow, Keras

NLP Libraries

Hugging Face (Transformers, TRL, PEFT, Accelerate, DeepSpeed), bitsandbytes, LangChain, ms-swift

Data Science & Visualization

Scikit-learn, Pandas, NumPy, SciPy, Matplotlib, Seaborn, OpenCV

Developer Tools & Platforms

Git, Docker, SLURM, Linux (Ubuntu), WandB, TensorBoard, JupyterLab

REFERENCES

Arman Cohan

Assistant Professor, Department of Computer Science, Yale University
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Jinwook Choi

Professor, Interdisciplinary Program in Bioengineering, Seoul National University
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