

HOONICK LEE

@ hoonick@korea.ac.kr @ hoonick7@gmail.com  github.com/hoonick7

 linkedin.com/in/hoonick-lee  hoonick7.github.io

SUMMARY

Research Interests: Natural Language Processing, Biomedical & Clinical NLP, Large Language Models, Food Computing

I develop natural language processing and large language model systems for specialized domains, with a current focus on reliable NLP for biomedical and clinical applications. My previous work spans food computing, scam detection, clinical text-to-SQL, and biomedical question answering, including a 1st-place overall result in the BioASQ 13b Phase B challenge. My academic background combines health and radiological science, brain and cognitive sciences, and computer science.

EDUCATION

Korea University

Ph.D. in Computer Science (Integrated M.S.–Ph.D. Program, In Progress)

DMIS Lab (Data Mining and Information Systems Lab)

Seoul, Korea

Sep 2023–Present

Advisor: [Prof. Jaewoo Kang](#)

Korea University

B.S. in Department of Health and Environmental Science, College of Health Science (Primary Major)

Interdisciplinary Major: Brain and Cognitive Sciences

Double Major: Department of Computer Science and Engineering, College of Informatics

Seoul, Korea

Mar 2016–Aug 2023

Mar 2016–Feb 2022

Feb 2022–Aug 2023

TECHNICAL SKILLS

Core: Python, SQL

Familiar: C, Java, MATLAB

Tools & Platforms: Linux, Git, Docker, PostgreSQL

ML/Data Stack: Scikit-Learn, PyTorch, Pandas, Matplotlib, NumPy

PUBLICATIONS (1 JOURNAL ARTICLE, 1 IN PRESS, 1 CONFERENCE PAPER, 3 WORKSHOP PAPERS, 1 DOMESTIC PAPER)

★: First or Co-first author paper; †: Equal contributions, ‡: Corresponding author.

Journal Articles

- ★ **Hoonick Lee**, Mogan Gim, Donghyeon Park, Donghee Choi‡, and Jaewoo Kang‡. “ASH: A Systematic Automated Evaluation Framework for Creative Text Generation in Cuisine Transfer Tasks” IEEE Access, 2026 (Early Access). <https://doi.org/10.1109/ACCESS.2026.3727977>, <https://github.com/dmis-lab/ASH2608>

In Press

- Chanhwi Kim, WonJin Yoon, **Hoonick Lee**, Jung-Oh Lee, Majid Afshar, Jaewoo Kang‡, and Timothy Miller‡. “Substituting Radiology Reports for Chest Radiographs does not preserve prediction behavior in Post-Discharge Mortality Prediction” JAMIA Open, 2026 (In Press). Preprint: <https://doi.org/10.1101/2025.10.30.25339162>

Full Conference Papers

- Heedou Kim, Mogan Gim, Donghee Choi, **Hoonick Lee**, Soonil Bae, Mi-Young Kim, and Jaewoo Kang. “An LLM-based Chain-of-Response Counter-Scam System” The 35th International Joint Conference on Artificial Intelligence (IJCAI). 2026 (To Appear). <https://arxiv.org/abs/2606.01475>

Conference Workshop Papers

- ★ **Hoonick Lee**, Mogan Gim, Donghee Choi‡, and Jaewoo Kang‡. “Culinary Class Wars: Evaluating LLMs using ASH in Cuisine Transfer Task” 2025 IEEE International Conference on Data Mining Workshops (ICDMW), Workshop on Computational Gastronomy and Multimodal Food Data Analysis (CoGamy), pp. 657–660. 2025. <https://doi.org/10.1109/ICDMW69685.2025.00080>, Preprint: [arXiv:2411.01996](https://arxiv.org/abs/2411.01996)
- Hajung Kim†, **Hoonick Lee**†, Yewon Cho†, Jungwoo Park†, Jueon Park†, Soyoon Park†, Yan Ting Chok†, Seungheun Baek†, Donghyeon Lee†, and Jaewoo Kang‡. “Prompting Matters: Snippet-Aware Strategies for Biomedical QA with LLMs in BioASQ 13b” CLEF 2025 Working Notes, CEUR Workshop Proceedings, Vol. 4038, pp. 373–382. 2025 (Poster). https://ceur-ws.org/Vol-4038/paper_25.pdf

- ★ Hajung Kim, ★ Chanhwi Kim, **Hoonick Lee**, Kyochul Jang, Jiwoo Lee, Kyungjae Lee, Gangwoo Kim, and Jaewoo Kang[‡]. “*KU-DMIS at EHRSQL 2024: Generating SQL Query via Question Templatzation in EHR*” In Proceedings of the 6th Clinical Natural Language Processing Workshop (ClinicalNLP), pp. 672–686, Mexico City, Mexico. Association for Computational Linguistics, 2024. <https://aclanthology.org/2024.clinicalnlp-1.64/>

Domestic Conference Papers

- Minju Song, Taewhoo Lee, Hyeon Hwang, Yein Park, Chanwoong Yoon, **Hoonick Lee**, Dain Kim, Sihyeon Park, Jiwoo Lee, and Jaewoo Kang. “*Impact of High Pressure and Emotional Prompting Strategies on the Behavior of Large Language Models*” Proceedings of the Korea Computer Congress (KCC), KIISE, pp. 910–912. 2025.

OTHERS

Reviewer for Conferences: WWW (Sub-reviewer, 2025), Conference on Information and Knowledge Management (CIKM) (Sub-reviewer, 2025)

Competition Achievement:

BioASQ 13b Phase B Exact Answers — 1st Place Overall (2025); ranked 1st, 1st, 2nd, and 1st across the four evaluation batches as part of the KU-DMIS team.

Teaching Assistantship:

Machine Learning (Undergraduate, Fall 2023), Advanced Data Science for Finance (Digital Finance Engineering, Graduate School of Computer and Information Technology, Fall 2023), Data Science (Undergraduate, Spring 2026), Precision Medicine Challenge (Graduate School, Spring 2026–Present).

Lab Service:

DMIS Lab Server Administrator (Apr 2024–Feb 2027, expected): Managing Linux-based deep learning servers, including environment provisioning, GPU resource operations, and user support — up to 24 multi-GPU servers spanning Titan X/Xp through RTX PRO 6000 Blackwell generations, plus RAID-based storage.

Certifications:

Engineer Information Processing (Issued by HRD Korea, Sep 2023), **SQL Developer** (SQLD; Issued by Kdata, Sep 2022), **Advanced Data Analytics Semi-Professional** (ADsP; Issued by Kdata, Sep 2023).