

Wonjin Lee

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EDUCATION

Pohang University of Science and Technology (POSTECH)

Integrated M.S.-Ph.D. in Artificial Intelligence

Pohang, KR

Mar. 2024 – Present

- Research interests: multimodal large language models, structured data understanding, table reasoning, graph-based reasoning, and document understanding

Korea University

B.S. in Environmental Science and Ecological Engineering

Seoul, KR

Mar. 2016 – Feb. 2023

EXPERIENCE

Machine Learning and Vision Group (MLV Group)

Jan. 2024 – Present

Research Student

- Conducted research on table understanding, structured data understanding, and vision-language reasoning
- Developed a divide-and-conquer method for selecting question-relevant subtables in table question answering
- Developed a hypergraph-based structural infusion method for improving table reasoning in language models

KAIST Algorithmic Intelligence Lab

May 2023 – Oct. 2023

Research Intern

- Worked on unsupervised prompt optimization for realistic zero-shot image generation

GenesisLab Inc.

Nov. 2022 – Apr. 2023

AI Researcher

- Developed a video lip-sync detection model to identify interview cheating with pre-recorded audio
- Built a speaker classification pipeline to detect voice inconsistency in recorded speech
- Developed a multimodal interview cheating classification model using eye movement and voice signals

UNIST Radiation and Medical Intelligence Lab

Oct. 2021 – Apr. 2023

Research Intern

- Developed deep learning models for medical image analysis using CT and infrared imaging data
- Worked on metal artifact reduction for head and neck CT images to improve image quality for diagnosis
- Developed a sinusitis classification model using infrared images from a medical imaging device

NCSOFT Inc., Speech AI Lab

Jul. 2021 – Feb. 2022

Research Intern, Singing Voice Team

- Developed a wav-to-MIDI transcription model for automatic singing melody transcription

PUBLICATIONS

- [1] **Wonjin Lee**, Soomi Jeong, and Kwang In Kim, “HInT: Hypergraph Infusion at the Structural Layers Improves Table Understanding”, *ICML*, 2026.
- [2] **Wonjin Lee**, Kyumin Kim, Sungjae Lee, Jihun Lee, and Kwang In Kim, “Piece of Table: A Divide-and-Conquer Approach for Selecting Sub-Tables in Table Question Answering”, *ACL*, 2026.
- [3] Dongyoon Kim, Sungjae Lee, **Wonjin Lee**, and Kwang In Kim, “Subspace-based Approximate Hessian Method for Zeroth-Order Optimization”, *arXiv preprint*, 2025.
- [4] Juhyeong Ki, Jung Mok Lee, **Wonjin Lee**, Jin Ho Kim, Hyeongmin Jin, Seongmoon Jung, and Jimin Lee, “Dual-encoder architecture for metal artifact reduction for kV-cone-beam CT images in head and neck cancer radiotherapy”, *Scientific Reports*, 2024.
- [5] Juhyeong Ki, **Wonjin Lee**, Bitbyeol Kim, Dukju Kim, Seongmoon Jung, and Jimin Lee, “Mask-guided Metal Artifact Reduction with Contrastive Learning”, *IEEE Access*, 2025.

ACADEMIC SERVICES

Conference Reviewer

AAAI Conference on Artificial Intelligence (AAAI), 2024

Computer Vision and Pattern Recognition (CVPR), 2025

Journal Reviewer

IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI), 2025, 2026

REFEREES

Prof. Kwang In Kim, Professor, POSTECH

Advisor, Machine Learning and Vision Group

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Prof. Jimin Lee, Associate Professor, UNIST

Undergraduate Research Advisor, Radiation & Medical Intelligence Lab

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