

Taehoon Kim

Integrated M.S./Ph.D. Student, Multimodal Interactive Intelligence Laboratory (MIIL), Korea University

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RESEARCH INTERESTS

Multi-modal Large Language Models, Vision-Language Models, Structured & Compositional Generation, Computer Vision, Deep Learning, Document AI, OCR, Table Extraction, Object Detection.

EDUCATION

Korea University, Seoul, South Korea

Sep. 2025 — Present

Integrated M.S./Ph.D. Program · Multimodal Interactive Intelligence Laboratory (MIIL)

Korea University, Seoul, South Korea

Mar. 2023 — Aug. 2025

M.S. in SW / AI Convergence

GPA: 4.44 / 4.5

Pusan National University, Busan, South Korea

Mar. 2011 — Feb. 2018

B.S. in Computer Science and Engineering

GPA: 3.56 / 4.5

PUBLICATIONS

* denotes equal contribution.

CONFERENCE

1 **Compositional SVG Generation via VLM-Driven Hierarchical Semantic Parsing** MAIN

Sehwan Park*, **Taehoon Kim***, Geonhee Han, Dohyun Kim, Seung Wook Kim & Paul Hongsuck Seo
Conference on Empirical Methods in Natural Language Processing (EMNLP), 2026.
arxiv.org/abs/2609.14657 · ku-miil.github.io/semantic-svg-generation

2 **Training method that integrates Table Detection and Table Structure Recognition datasets based on a Multi-Task learning deep learning model**

Taehoon Kim

37th Workshop on Image Processing and Image Understanding (IPIU), 2025.

3 **End-to-End Table Transformer** ORAL

Yun Young Choi*, **Taehoon Kim***, Namwook Kim, Taehee Lee & Seongho Joe
International Conference on Document Analysis and Recognition (ICDAR), 2024.
doi.org/10.1007/978-3-031-70533-5_20

JOURNAL

4 **Scheduling appointments for container truck arrivals considering their effects on congestion**

Sanghyuk Yi, Bernd Scholz-Reiter, **Taehoon Kim** & Kap Hwan Kim
Springer Science+Business Media, LLC, part of Springer Nature, 2019.

PATENTS

Method, apparatus, system, and computer program for adjusting table coordinate information

KR 10-2021-0146965

Method, apparatus, system, and computer program for storing and managing images with enhanced security

KR 10-2021-0147056

EXPERIENCE

Samsung SDS, Seoul, South Korea

Jan. 2018 — Aug. 2026

Researcher

- Led the end-to-end development of **AICR**, a SaaS-based OCR service:
 - Designed the architecture for scalability and efficiency.
 - Researched and developed improvements to OCR accuracy and performance.
 - Managed service deployment and distribution.
- Contributed to Samsung Nexfinance AICR, a deep-learning-based OCR solution (v1.1 – v1.3).
- Implemented Kyongnam Bank's credit and collateral evaluation system.
- Developed the search engine for Samsung SDS Brity Assistant, a corporate chatbot system.

Logistics Innovation Networking Labs, Busan, South Korea

Jul. 2016 — Dec. 2017

Assistant Researcher

- Participated in developing a vehicle reservation system on an IoT-based collaboration platform.
- Designed and implemented core algorithms for vehicle reservation efficiency.

AWARDS

Finalist, Samsung Collegiate Programming Cup — Seoul, Korea

2016

36th place, ACM-ICPC Daejeon Regional, team “zzolbo” — Daejeon, Korea

2015

ENGLISH

OPIc Intermediate High (Oct. 2024)

TEPS 342 (May 2024)

SKILLS

Programming Python, C++, C, Java, JavaScript, Go

Frameworks & Tools PyTorch, OpenCV, Docker, Kubernetes, Linux (Ubuntu, CentOS)