

# MIN KI HONG

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## Research Interests

Generative AI; Social Norms & Cultural Bias Mitigation; Fairness & Inclusivity in AI; Vision-Language Models; Reasoning in LLMs & VLMs; World Model

## Education

**Carnegie Mellon University (CMU)** Aug 2025 – Feb 2026  
Pittsburgh, PA, USA, Visiting Scholar (Short-term Research Program for six months)  
Advisor: **Prof. Jean Oh**, Robotics Institute

**Dongguk University** Mar 2024 – Feb 2026  
Seoul, South Korea, M.S. in Computer Science and Artificial Intelligence  
CGPA: 4.5/4.5 · Advisor: **Prof. Jihie Kim**

**Dongguk University** Mar 2018 – Feb 2024  
Seoul, South Korea, B.S. in Computer Science & Engineering  
CGPA: 4.07/4.5

## Research Experience

**Bot Intelligence Group (BIG) at Carnegie Mellon University** Aug 2025 – Feb 2026  
Visiting Scholar · Supervisor: **Prof. Jean Oh**

- Contributed to cultural bias evaluation in generative image models; designed cultural evaluation metrics.

**Dongguk University** Mar 2024 – Feb 2026  
Graduate Researcher · Supervisor: **Prof. Jihie Kim**

- Developed NormGenesis framework for multicultural dialogue generation via social norm modeling and violation recovery.
- Researched prompt engineering evaluation metrics for interpretable joint evaluation of prompts and responses.
- Explored visual reasoning enhancement through human-like interpretation grounding and decomposition of thought.

## Publications

(C: Conference, J: Journal, \*: Equal contribution)

[C6] Eunsoo Lee, Jeongwoo Lee, **Minki Hong**, Jangho Choi, Jihie Kim, “VisDoT: Enhancing Visual Reasoning through Human-Like Interpretation Grounding and Decomposition of Thought,” *Findings of the 19th Conference of the European Chapter of the Association for Computational Linguistics (EACL findings)*.

[C5] Huichan Seo\*, Sieun Choi\*, **Minki Hong**\*, Yi Zhou, Junseo Kim, Lukman Ismaila, Naome Etori, Mehul Agarwal, Zhixuan Liu, Jihie Kim, Jean Oh, “Exposing Blindspots: Cultural Bias Evaluation in Generative Image Models,” *International Association for Safe and Ethical Artificial Intelligence (IASEAI'26)*. <https://arxiv.org/abs/2510.20042>

[C4] **Minki Hong**, Jangho Choi, Jihie Kim, “NormGenesis: Multicultural Dialogue Generation via Exemplar-Guided Social Norm Modeling and Violation Recovery,” *Proceedings of the 2025 Conference on Empirical Methods in Natural Language Processing (EMNLP 2025)*. (**SAC Highlights Award**) <https://arxiv.org/abs/2409.08171>

[J1] Zainab Ullah, **Minki Hong**, Tassawar Mahmood, Jihie Kim, “Systematic Integration of Attention Modules into CNNs for Accurate and Generalizable Medical Image Classification,” *Mathematics*. <https://arxiv.org/abs/2509.05343>

[C3] **Minki Hong**, Youngsik Yun, Sohyeon Park, Jihie Kim, “Generating Korean Image Captions using OCR in CoT Prompting,” *Annual Conference on Human and Language Technology (HCLT-KACL 2024)*.

[C2] Jeongwoo Lee, **Minki Hong**, Eunsoo Lee, Jihie Kim, “LLM-based Table Data Inference using Data Augmentation and Few-Shot Prompting,” *Annual Conference on Human and Language Technology (HCLT-KACL 2024)*.

[C1] **Minki Hong**, Seunghyun Lee, Youn-Soon Shin, “Proposal of an Improved Fall Detection Using GRU,” *Annual Conference of KIPS (ACK 2023)*.

## Under Review

**Minki Hong**, Eunsoo Lee, Sohyeon Park, Jihie Kim, “Prompt Engineering Evaluation Metrics for Interpretable Joint Evaluation of Prompts and Responses.”

Jahid Ullah, **Minki Hong**, Tassawar Mahmood, Jihie Kim, “Navigating the Evolving Landscape of Continual Learning: A Review of Paradigms, Methodologies, and Open Challenges.”

# Intellectual Property

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## Patents

**Method for Image Captioning Using OCR Information and Chain-of-Thought Prompting.** Korean Patent Application 10-2025-0138932 Sep 2025

**Method and System for Evaluating Prompt Engineering.** Korean Patent Application 10-2025-0106691 Aug 2025

**Method and System for Generating Multicultural Dialogues Based on Exemplar-Guided Social Norm Modeling.** Korean Patent Application 10-2025-0106692 Aug 2025

## Software Registrations

**Prompt Engineering Evaluation Program.** Korean Software Registration C-2025-030385 Aug 2025

**Exemplar-based Iterative Refinement Framework for Multicultural Social Norm Dialogue Generation.** Korean Software Registration C-2025-031729 Aug 2025

**Korean Captioning using CoT Prompting.** Korean Software Registration C-2025-031728 Aug 2025

**Korean Captioning for OCR-based Information Extraction.** Korean Software Registration C-2025-030385 Aug 2025

## Awards

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Senior Area Chair (SAC) Highlights Award, EMNLP 2025 ([Link](#)) Nov 2025  
Honors Graduation, Dongguk University Feb 2024

## Teaching Experience

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**Dongguk University** 2023 – 2025

*Teaching Assistant*

- Software Engineering and Physical Computing (Summer 2024, 2025)
- Introduction to Internet of Things (Spring 2025)
- Adventure Design (Spring 2023, Fall 2023, Spring 2025)
- Capstone Design 1 & 2 (Spring 2024, Fall 2024)
- Convergence Capstone Design (Fall 2024)
- Independent Capstone Design (Spring 2023, Fall 2023, Spring 2024)
- Data Structure (Spring 2024)

**Korea Army Training Center** 2020

*Assistant Instructor*

- Served as assistant instructor during military service.

## Extracurricular Activities

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**Empirical Methods in Natural Language Processing (EMNLP 2025)** Nov 2025

*Volunteer Coordinator*

- Served as Volunteer Coordinator, managing 160+ volunteers and overseeing main conference operations.
- Acted as liaison between ACL staff, volunteers, and conference participants.

**Google Developer Group on Campus (GDGoC), Dongguk University** Aug 2024 – Jul 2025

*AI/ML Core Member*

- Led the AI/ML track as a core member.
- Participated in the APAC Solution Challenge 2025, developing Greenap ([GitHub](#)).

**International Joint Conference on Artificial Intelligence (IJCAI 2024)** Aug 2024

*Student Volunteer*

- Served as a volunteer for IJCAI 2024, supporting workshop setup and operations (DemocrAI 2024, GAAMAL 2024).

**Google Developer Student Club (GDSC), Dongguk University** Sep 2023 – Aug 2024

*AI/ML General Member*

- Actively contributed as a member in the AI/ML track, participating in seminars.
- Participated in the Google Solution Challenge 2024, contributing to the sMiLe project ([GitHub](#)).