



# Min Ki Hong

M.S. IN ARTIFICIAL INTELLIGENCE · RESEARCHER IN GENERATIVE AI AND MULTIMODAL SYSTEMS

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Generative AI, social norms, cultural bias mitigation, LLMs, VLMs, and reasoning in multimodal systems

## Education

### Carnegie Mellon University

VISITING SCHOLAR, ROBOTICS INSTITUTE

Pittsburgh, PA, USA

Aug. 2025 - Feb. 2026

- Short-term research program for six months under Prof. Jean Oh.

### Dongguk University

M.S. IN COMPUTER SCIENCE AND ARTIFICIAL INTELLIGENCE

Seoul, South Korea

Mar. 2024 - Feb. 2026

- CGPA: 4.5/4.5. Advisor: Prof. Jihie Kim.

### Dongguk University

B.S. IN COMPUTER SCIENCE & ENGINEERING

Seoul, South Korea

Mar. 2018 - Feb. 2024

- CGPA: 4.07/4.5. Honors Graduation.

## Research Interests

<b>Generative AI</b>	Cultural bias evaluation, demographic misrepresentation, identity-preserving image editing
<b>Social AI</b>	Social norms, multicultural dialogue generation, cultural bias mitigation, fairness and inclusivity
<b>Reasoning Models</b>	Vision-language models, visual reasoning, prompt engineering, LLM and VLM evaluation
<b>Broader Focus</b>	World models, interpretable evaluation, human-like interpretation grounding

## Publications

\* Equal contribution

### CONFERENCE PUBLICATIONS

- [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 EACL 2026. [arXiv]
- [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.” IASEAI 2026. [arXiv]
- [C4] **Minki Hong**, Jangho Choi, Jihie Kim. “NormGenesis: Multicultural Dialogue Generation via Exemplar-Guided Social Norm Modeling and Violation Recovery.” EMNLP 2025. **SAC Highlights Award**. [arXiv]
- [C3] **Minki Hong**, Youngsik Yun, Sohyeon Park, Jihie Kim. “Generating Korean Image Captions using OCR in CoT Prompting.” HCLT-KACL 2024.
- [C2] Jeongwoo Lee, **Minki Hong**, Eunsoo Lee, Jihie Kim. “LLM-based Table Data Inference using Data Augmentation and Few-Shot Prompting.” HCLT-KACL 2024.
- [C1] **Minki Hong**, Seunghyun Lee, Youn-Soon Shin. “Proposal of an Improved Fall Detection Using GRU.” ACK 2023.

### JOURNAL PUBLICATIONS

- [J2] **Minki Hong**, Eunsoo Lee, Sohyun Park, Jihie Kim. “PEEM: Prompt Engineering Evaluation Metrics for Interpretable Joint Evaluation of Prompts and Responses in LLMs.” IEEE Access. [DOI]
- [J1] Zainab Ullah, **Minki Hong**, Tassawar Mahmood, Jihie Kim. “Systematic Integration of Attention Modules into CNNs for Accurate and Generalizable Medical Image Classification.” Mathematics. [arXiv]

### UNDER REVIEW

- Jangho Choi, Eunsoo Lee, Wonjun Lee, **Minki Hong**, Jihie Kim “From Explicit-to-Implicit: Semantic-Preserving Jailbreaks against Text-to-Image Safety Filters.”
- Huichan Seo\*, **Minki Hong\***, Sieun Choi\*, Jihie Kim, Jean Oh. “Evaluating Demographic Misrepresentation in Image-to-Image Portrait Editing.” [arXiv]
- Jahid Ullah, **Minki Hong**, Tassawar Mahmood, Jihie Kim. “Navigating the Evolving Landscape of Continual Learning: A Review of Paradigms, Methodologies, and Open Challenges.”

## Research Experience

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### Omnimodal Foundation Model (OFM) team, SK Telecom

Seoul, South Korea

AI RESEARCHER

Mar. 2026 - Jun. 2026

- Participated in the post-training process for large-scale AI models.
- Designed dataset construction strategies and a pipeline for generating high-quality data to improve multimodal reasoning capabilities.
- Built SFT and RL datasets at a scale of 1M+ samples.

### Bot Intelligence Group (BIG), Carnegie Mellon University

Pittsburgh, PA, USA

VISITING SCHOLAR

Aug. 2025 - Feb. 2026

- Contributed to cultural bias evaluation in generative image models and designed cultural evaluation metrics.
- Investigated demographic-conditioned failures in instruction-guided image-to-image portrait editing and formalized failure modes including soft erasure and stereotype replacement.
- Proposed prompt-level identity-preserving mitigations for portrait editing systems.

### Machine Learning Lab (MLLAB), Dongguk University

Seoul, South Korea

GRADUATE RESEARCHER

Mar. 2024 - Feb. 2026

- Developed NormGenesis, a 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.

## Honors & Awards

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Nov. 2025 **SAC Highlights Award**, EMNLP 2025

Suzhou, China

Feb. 2024 **Honors Graduation**, Dongguk University

Seoul, South Korea

Jan. 2024 **Dean's List**, Dongguk University (Spring Semester)

Seoul, South Korea

Dec. 2023 **Grand Prize**, DU-Startup Challenge, Dongguk University

Seoul, South Korea

Jan. 2023 **Dean's List**, Dongguk University (Spring Semester)

Seoul, South Korea

## Intellectual Property

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### PATENTS

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

South Korea

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

South Korea

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

South Korea

### SOFTWARE REGISTRATIONS

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

South Korea

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

South Korea

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

South Korea

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

South Korea

## Teaching Experience

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### Dongguk University

Seoul, South Korea

TEACHING ASSISTANT

2023 - 2025

- 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

Nonsan, South Korea

ASSISTANT INSTRUCTOR

2020 - 2021

- Served as assistant instructor during military service.

## Extracurricular Activities

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### NVIDIA Nemotron Hackathon 2026 (Track C: SDG for High-Quality Dataset Generation)

Seoul, South Korea

PARTICIPANT

Apr. 2026

- Participated in the Nemotron Hackathon held alongside NVIDIA Nemotron Developer Days Seoul 2026. [Event]
- Proposed the project idea and contributed to Korean data generation using Nemotron, NeMo Data Designer, and Nemotron-Personas-Korea.
- Worked on the *nemos\_dream* project for synthetic Korean dataset generation. [Project]

### Conference and Workshop Reviewing

REVIEWER

Mar. 2026 - Present

- CoNLL 2026 (reviewed in Mar. 2026). [Conference]
- ICML 2026 Workshop on Generative AI, Creativity, and Human-AI Co-Creation (GenAICreativity) (reviewed in May 2026). [Workshop]
- ICML 2026 Workshop on Trustworthy AI for Good (AI4GOOD) (reviewed in May 2026). [Workshop]

### Empirical Methods in Natural Language Processing (EMNLP 2025)

Suzhou, China

VOLUNTEER COORDINATOR

Nov. 2025

- Managed more than 160 volunteers and oversaw main conference operations.
- Served as liaison among ACL staff, volunteers, and conference participants.

### Community Hackathons

Seoul, South Korea

HACKATHON ORGANIZER

2024 - 2025

- On-site Support Team, 2025 Bbiyagton Campus Competition. [Event]
- Planning Team, 2024 Snowflake-thon, a joint GDSC hackathon.
- Head of Promotion, 2024 Dongguk-thon hosted by GDSC DGU.

### Google Developer Group on Campus (GDGoC), Dongguk University

Seoul, South Korea

AI/ML CORE MEMBER

Aug. 2024 - Jul. 2025

- Led the AI/ML track as a core member.
- Participated in the APAC Solution Challenge 2025 and developed Greenap.

### International Joint Conference on Artificial Intelligence (IJCAI 2024)

Jeju, South Korea

STUDENT VOLUNTEER

Aug. 2024

- Supported workshop setup and operations including DemocrAI 2024 and GAAMAL 2024.

### Google Developer Student Club (GDSC), Dongguk University

Seoul, South Korea

AI/ML GENERAL MEMBER

Sep. 2023 - Aug. 2024

- Contributed to the AI/ML track through seminars and collaborative activities.
- Participated in the Google Solution Challenge 2024 and contributed to the sMiLe project.

## News & Media

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### Interview: "Stories of Research Interns at the Giant AI Model Development Site" (Link)

Seoul, South Korea

SK TELECOM NEWSROOM

Apr. 2026

### Featured: "EMNLP 2025 SAC Highlights Award Recipients" (Link)

Seoul, South Korea

DONGGUK UNIVERSITY COMPUTER/AI DEPT. NEWS

Nov. 2025

### Featured: "Paper Acceptance at EMNLP 2025, a Top NLP Conference" (Link)

Seoul, South Korea

DONGGUK UNIVERSITY COMPUTER/AI DEPT. NEWS

Aug. 2025

### Featured: "Scholarship Recipient from Sajaam, Dongjak-gu" (Link)

Seoul, South Korea

DONGGUK UNIVERSITY WEBZINE

Dec. 2022