



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

Generative AI

Cultural bias evaluation, demographic misrepresentation, identity-preserving image editing

Social AI

Social norms, multicultural dialogue generation, cultural bias mitigation, fairness and inclusivity

Reasoning Models

Vision-language models, visual reasoning, prompt engineering, LLM and VLM evaluation

Broader Focus

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 & TECH REPORT

- SK Telecom “A.X K2 Technical Report.” [Tech Report]
- 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

Korean Air, IT Strategy Department

Seoul, South Korea

AI ENGINEER

Jul. 2026 - Present

- Designed an enterprise-wide document standardization pipeline and developed a corresponding implementation guidebook.
- Conducted a proof of concept (PoC) using Gemini Enterprise.
- Designed experiments for the final project, focusing on the enterprise-wide expansion of AI transformation (AX).

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.

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

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

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

News & Media

Interview: "Stories of Research Interns at the Giant AI Model Development Site" (Link) SK TELECOM NEWSROOM	Seoul, South Korea Apr. 2026
Featured: "EMNLP 2025 SAC Highlights Award Recipients" (Link) DONGGUK UNIVERSITY COMPUTER/AI DEPT. NEWS	Seoul, South Korea Nov. 2025
Featured: "Paper Acceptance at EMNLP 2025, a Top NLP Conference" (Link) DONGGUK UNIVERSITY COMPUTER/AI DEPT. NEWS	Seoul, South Korea Aug. 2025
Featured: "Scholarship Recipient from Sajaam, Dongjak-gu" (Link) DONGGUK UNIVERSITY WEBZINE	Seoul, South Korea Dec. 2022

Extracurricular Activities

NVIDIA Nemotron Hackathon 2026 (Track C: SDG for High-Quality Dataset Generation) PARTICIPANT	Seoul, South Korea 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 <i>nemos_dream</i> 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) VOLUNTEER COORDINATOR	Suzhou, China Nov. 2025
- Managed more than 160 volunteers and oversaw main conference operations. - Served as liaison among ACL staff, volunteers, and conference participants.	
Community Hackathons HACKATHON ORGANIZER	Seoul, South Korea 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 AI/ML CORE MEMBER	Seoul, South Korea 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) STUDENT VOLUNTEER	Jeju, South Korea Aug. 2024
Supported workshop setup and operations including DemocrAI 2024 and GAAMAL 2024.	
Google Developer Student Club (GDSC), Dongguk University AI/ML GENERAL MEMBER	Seoul, South Korea 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.	

Teaching Experience

Dongguk University TEACHING ASSISTANT	Seoul, South Korea 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

ASSISTANT INSTRUCTOR

Nonsan, South Korea

2020 - 2021

- Served as assistant instructor during military service.