

Minwoo Kim

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77 Cheongam-Ro. Nam-Gu. Pohang. Gyeongbuk. Republic of Korea (37673)

EDUCATION

Pohang University of Science and Technology M.S. in Electrical Engineering	Pohang, Korea 09/2025 - Present
Pohang University of Science and Technology B.S. in Electrical Engineering	Pohang, Korea 02/2019 - 08/2025
Université Paris-Saclay Exchange Student in Faculté des Sciences d'Orsay	Paris, France 09/2024 - 02/2025

EXPERIENCES

Information and Intelligence Lab(IIL) @POSTECH EE Research Intern	Pohang, Korea 01/2024 - 06/2024, 05/2025 - 08/2025
Apple Foundation Program @POSTECH Learner, at Apple Developer Academy @POSTECH	Pohang, Korea 03/2025 - 04/2025
SAMSUNG Electronics Intern, Networks Buisiness	Suwon, Korea 07/2024 - 08/2024
Wireless Communications and Machine Learning Lab(WCML) @POSTECH EE Research Intern	Pohang, Korea 06/2023 - 08/2023

AWARDS AND HONORS

Best Graduation Project , 1 st Place out of 26 Teams - POSTECH EE	(Jul. 2024)
Scholarship for Exchange Students, 2 students annually - POSTECH NGCN	(Jul. 2024)
B.S. / M.S. Scholarship Recipient - Samsung Electronics	(Jan. 2023 - Present)
Scholarship for Exemplary College Students - MG Community Credit Cooperatives, Korea	(Feb. 2024)
A Prize of Creativity (2-Star), 5 th Korea Army Startup Challenge Advanced to the finals of the Ministry of National Defense challenge	(Jun. 2021)

PUBLICATIONS

* Equal contribution

Token-oriented semantic communication with pretrained vision transformers

J. Im*, **M. Kim***, J. Lee, Y.-S. Jeon, and Y. Kim, *Submitted*, Aug. 2026.

ImpactHO: Importance-aware KV cache transfer for multi-user edge LLM handover

M. Kim, S. Song, N. Lee, B. Jung, and Y. Kim, *Submitted*, Jul. 2026.

Modulation symbol mapping for robust token communications

M. Kim and Y. Kim, *KICS Winter Conference*, Feb. 2026.

PATENTS

다중 사용자 거대 언어 모델 핸드오버를 위한 자원 할당 방법 및 그 장치

METHOD AND APPARATUS FOR ALLOCATING RESOURCE FOR MULTI-USER LARGE LANGUAGE MODEL HANDOVER

김민우, 송수창, 김용준, KR2026/10-2026-0139612

인공지능 서비스 연속성을 제공하는 핸드오버 방법 및 전자 장치

METHOD AND APPARATUS FOR HANDOVER PROVIDING ARTIFICIAL INTELLIGENCE SERVICE CONTINUITY

김용준, 김민우, 송수창, KR2026/10-2026-0073872

PROJECTS

AI-Native 응용서비스 지원 AI-Native 무선 인터페이스 기술 개발 (Development of AI-Native Wireless Interface Technology to Support AI-Native Application Services) (Apr. 2026 - Present)

과학기술정보통신부 정보통신기획평가원 차세대네트워크(6G) 산업기술 개발

Graduation Project I&II (Adviser: Prof. Yongjune Kim) (Sep. 2023 - Jun. 2024)

Optimizing Resources using Active Learning in Semantic Communication

 *Best Graduation Project of POSTECH EE*

CERTIFICATIONS

Samsung SW Competency Certificate (Professional Level) (Mar. 2026)

Verified professional-level proficiency in algorithmic problem solving and system-level optimization

ACADEMIC SERVICES

Teaching Assistant

- EECE442 Intro. of Communication and Networks

TECHNICAL SKILLS

Language

- Korean (Native)
- English (B2)
- Français (A2)

Programming Languages

- Python
- C, C++
- LabVIEW
- $\text{\LaTeX}$
- Swift

Mathematical Programming Languages/Platforms

- MATLAB

MISC.

Planning Team Leader

of the Freshman Orientation Preparation Committee @POSTECH

(Nov. 2022 - Feb. 2023)

Stage Team Leader

of the POSTECH-KAIST SCIENCE WAR Preparation Committee @POSTECH

(Jun. 2022 - Sep. 2022)

Korea Army The 52nd Infantry Division

Intelligence & Operations branch (Military Service)

(July. 2020 - Jan. 2022)