

MIJIN KOO

M.S. Student in Intelligence and Information

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EDUCATION

09/2024 – Present	Seoul National University, Seoul, Korea M.S. in Intelligence and Information (Advisor: Prof. Nojun Kwak)	Lab Link
03/2020 – 08/2024	Ewha Womans University, Seoul, Korea B.S. in Computer Science and Engineering (GPA: 4.08/4.50)	

RESEARCH EXPERIENCE

01/2024 – Present	Seoul National University, Seoul, Korea <ul style="list-style-type: none">Graduate Researcher, Machine Intelligence and Pattern Recognition Lab (MIPAL)Research Focus: Computer Vision, Generative AI, Trustworthy AI, Diffusion ModelsDeveloping robust and secure generative vision models, with a primary focus on data protection against potential misuse.
06/2023 – 12/2023	Korea Institute of Science and Technology (KIST), Seoul, Korea <ul style="list-style-type: none">Undergraduate Research Intern, AI and Robotics Institute (Advisor: Dr. Suhyun Kim)Developed adversarial defense mechanisms utilizing Diffusion and Super-Resolution models.Conducted comparative analysis on purification performance against diverse adversarial attacks.

PUBLICATIONS

Under Review	Fingerprinting Diffusion Models in the Wild Submitted to CVPR 2026 Junhoo Lee, Mijin Koo, Nojun Kwak	
2026	Targeted Data Protection for Diffusion Model by Matching Training Trajectory The 40th Annual AAAI Conference on Artificial Intelligence (AAAI 2026) Hojun Lee*, Mijin Koo*, Yeji Song, Nojun Kwak (* Equal Contribution)	arxiv
2025	Adversarial Purification via Super-Resolution and Diffusion IEEE/CVF International Conference on Computer Vision (ICCV 2025) Mincheol Park, Cheonjun Park, Seungseop Lim, Mijin Koo, Hyunwuk Lee, Won Woo Ro, Suhyun Kim	PDF

PROJECTS

03/2025 – 06/2025	A Single Word Bypass – How Name Tokens Break Data Protection	Coursework @ SNU · Video · PDF
	<ul style="list-style-type: none">Proved via mechanistic analysis that token choice bypasses existing diffusion personalization safeguards.Proposed a token-agnostic defense strategy and established robust evaluation protocols for realistic threats.	
02/2023 – 06/2023	CareSpoon: AI-based Nutrition Monitoring Service for Seniors	Capstone Design @ Ewha Womans Univ. · GitHub
	<ul style="list-style-type: none">Engineered an Object Detection pipeline (PyTorch) for food recognition and deployed a FastAPI server.Built a custom food image dataset via AI HUB to enhance model accuracy for Korean cuisine.Selected as the University Representative Team for the National SW Talent Festival.	

07/2021 – 08/2021	Smart Bakery: Self-Order Kiosk Web Service	GitHub
	<ul style="list-style-type: none">Developed a full-stack prototype integrating Vanilla JavaScript frontend with an AI inference backend.Implemented an Image Classification model (PyTorch) to automate bakery product checkout.	

EXTRACURRICULAR EXPERIENCE

02/2023 – 02/2024	President, SK LOOKIE (Social Venture Club)	
	<ul style="list-style-type: none">Directed the university chapter, overseeing social impact projects and sustainable business modeling.	
03/2021 – 08/2022	Manager / Academic Lead, AI Club Euron	GitHub
	<ul style="list-style-type: none">Curated the curriculum for Computer Vision (CS231n) study sessions and led technical seminars.	
07/2021 – 07/2022	Core Member, Google Developer Student Club (GDSC)	Github
	<ul style="list-style-type: none">Active participant in MLOps and Mobile Dev (React Native) tracks; solved algorithmic challenges.	

HONORS & AWARDS

11/2023	Selected as University Representative Team, SW Talent Festival	Ewha Womans University
05/2023	Excellence Award, Capstone Project Poster Session	Ewha Womans University
02/2023	2nd Place (Excellence Award), SK Telecom AI Tech Academy	SK Telecom
11/2022	3rd Place, SW Start-up Competition	Ewha Womans University