

# MIJIN KOO

M.S. Student in Intelligence and Information

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## EDUCATION

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

## RESEARCH EXPERIENCE

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

## PUBLICATIONS

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

## PROJECTS

03/2025 – 06/2025	<b>A Single Word Bypass – How Name Tokens Break Data Protection</b> <ul style="list-style-type: none"><li>Proved via mechanistic analysis that token choice bypasses existing diffusion personalization safeguards.</li><li>Proposed a token-agnostic defense strategy and established robust evaluation protocols for realistic threats.</li></ul>	Coursework @ SNU · <a href="#">Video</a> · <a href="#">PDF</a>
02/2023 – 06/2023	<b>CareSpoon: AI-based Nutrition Monitoring Service for Seniors</b> <ul style="list-style-type: none"><li>Engineered an Object Detection pipeline (PyTorch) for food recognition and deployed a <b>FastAPI</b> server.</li><li>Built a custom food image dataset via AI HUB to enhance model accuracy for Korean cuisine.</li><li><b>Selected as the University Representative Team</b> for the National SW Talent Festival.</li></ul>	Capstone Design @ Ewha Womans Univ. · <a href="#">GitHub</a>
07/2021 – 08/2021	<b>Smart Bakery: Self-Order Kiosk Web Service</b> <ul style="list-style-type: none"><li>Developed a full-stack prototype integrating Vanilla JavaScript frontend with an AI inference backend.</li><li>Implemented an Image Classification model (PyTorch) to automate bakery product checkout.</li></ul>	<a href="#">GitHub</a>

## EXTRACURRICULAR EXPERIENCE

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

## HONORS & AWARDS

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