

CHAEWON KIM

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RESEARCH INTERESTS

Human-aligned, failure-aware visual perception; contact-rich manipulation learning; visuo-tactile robot learning.

EDUCATION

Kookmin University, Seoul, South Korea	Mar 2021 – Feb 2026
B.B.A. in AI, Big Data, and Management; Minor in Software (Computer Science)	GPA: 4.05 / 4.5
<ul style="list-style-type: none">Received Dean's Distinguished Scholar Award (Graduation Honors).Awarded multiple merit scholarships for academic excellence and extracurricular achievement.Received a full-tuition scholarship and research funding.	

EXPERIENCE

University of California, Irvine	Jun 2025 – Aug 2025
Summer Research Intern	
<ul style="list-style-type: none">Conducted a comprehensive empirical study on the impact of face anonymization across representative video tasks, including action recognition and vision–language models (VLMs).Developed a scalable anonymization pipeline for reproducible evaluation across diverse benchmarks.Proposed Flicker Score, a novel metric for measuring the temporal stability of anonymization.	
Kookmin University	Dec 2023 – Dec 2024
Undergraduate Research Intern	
<ul style="list-style-type: none">Developed a pediatric obstructive sleep apnea (OSA) detection model to streamline diagnosis.Proposed a channel attention–based architecture for modeling inter-channel importance in biosignals.Improved model accuracy from 74.51% to 80.98%.	
Kookmin University	Dec 2022 – Dec 2023
AI Server Management Assistant	
<ul style="list-style-type: none">Managed the college's AI servers, ensuring a stable deep learning environment.Supported server operations including resource management, troubleshooting, updates, and data backup.	

PUBLICATIONS AND MANUSCRIPTS

- [1] **Refining Visual Artifacts in Diffusion Models via Explainable AI-based Flaw Activation Maps**
Seoyeon Lee*, Gwangyeol Yu*, **Chaewon Kim***, Jonghyuk Park (* Equal contribution)
Under review (preprint available).
- [2] **MatteViT: High-Frequency-Aware Document Shadow Removal With Shadow Matte Guidance**
Chaewon Kim*, Seoyeon Lee*, Jonghyuk Park (* Equal contribution)
Under review (preprint available).
- [3] **Privacy without Pain: Assessing Face Anonymization for Video Action Recognition and Vision–Language Models**
Chaewon Kim*, Hunjune Choo*, Dongjoo Seo, JaeKoo Lee, Nikil Dutt (* Equal contribution)
Manuscript in preparation.
- [4] **NTIRE 2025 Image Shadow Removal Challenge Report**
Florin-Alexandru Vasluianu et al. (including **Chaewon Kim**)
CVPR Workshops (NTIRE) 2025.

PROJECTS

Refining Visual Artifacts in Diffusion Models	Feb 2024 – Jul 2025
<ul style="list-style-type: none">Proposed a self-refining diffusion framework to detect and refine artifacts in diffusion models.Introduced Flaw Activation Maps (FAM) to highlight flawed regions and integrated them into the diffusion process via noise amplification and attention weighting, improving reconstruction quality.Achieved up to 27.3% improvement in FID across multiple diffusion models and diverse datasets.Related manuscript: [1]	
Real-World Document Shadow Removal	Mar 2025 – Jul 2025
<ul style="list-style-type: none">Proposed MatteViT, a novel framework for document shadow removal with fine-detail preservation.Introduced a luminance-based shadow matte for precise spatial guidance and a lightweight High-Frequency Amplification Module (HFAM) to enhance fine structures.Achieved state-of-the-art performance on public benchmarks (RDD and Kligler).Related manuscript: [2]	
Movie Content Rating System Using Text-to-Video Retrieval	Jun 2024 – Sep 2024
<ul style="list-style-type: none">Developed an automated movie rating classification system, reducing time and cost inefficiencies.Conducted video retrieval by splitting videos and utilizing a vision-language model to generate flexible and expressive text embeddings.	
Industry-Academic Cooperation Project with Nasmedia	Mar 2024 – Jul 2024
<ul style="list-style-type: none">Led an industry-academia collaboration with Nasmedia, South Korea's leading digital marketing lab.Developed a purchase conversion prediction model to identify key customer segments driving revenue growth.	

HONORS AND AWARDS

University Scholarships	2021 – 2024
<ul style="list-style-type: none">Merit Scholarship for Academic Excellence (Spring 2024)Full-Tuition Scholarship for Academic Excellence and Research Support (Fall 2023)Merit Scholarship for Extracurricular Achievement (Spring 2023; 2022; Fall 2021)	
Gold Prize, Big Data Contest – Advanced Division	2023
Ministry of Science and ICT, National Information Society Agency, South Korea	
<ul style="list-style-type: none">Effective Pricing Model for the Seoul Arts Center Concert Hall.	
Bronze Prize, Employment and Labor Data Utilization Competition	2023
Ministry of Employment and Labor, South Korea	
<ul style="list-style-type: none">Customized System for Industrial Accident Prediction and Management.	
Finalist, BDA Competition – Model Optimization Track	2023
Korea Big Data Society, CJ Cheiljedang, South Korea	
<ul style="list-style-type: none">Customer Prediction Modeling for CJ THE MARKET e-commerce platform.	

TEACHING

Vice President, AI · Big Data Society	Dec 2022 – Dec 2023
<ul style="list-style-type: none">Delivered twice-weekly lectures on data analysis, machine learning, and deep learning to 100+ members.Mentored students through regular study sessions, providing academic support and guidance.	

SERVICE

Reviewer, AAAI 2026
