

# CHAEWON KIM

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## RESEARCH INTERESTS

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

## EDUCATION

<b>Kookmin University, Seoul, South Korea</b>	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"><li>Received Dean's Distinguished Scholar Award (Graduation Honors).</li><li>Awarded multiple merit scholarships for academic excellence and extracurricular achievement.</li><li>Received a full-tuition scholarship and research funding.</li></ul>	

## EXPERIENCE

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

## 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 Vasluiianu et al. (including **Chaewon Kim**)  
*CVPR Workshops (NTIRE) 2025.*

## PROJECTS

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

## HONORS AND AWARDS

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

## TEACHING

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

## SERVICE

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<b>Reviewer, AAAI 2026</b>
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