

# CHAEWON KIM

[kimcwbf@kookmin.ac.kr](mailto:kimcwbf@kookmin.ac.kr) | [chaewonkimm.github.io](https://github.com/chaewonkimm) | [linkedin.com/in/chaykim](https://www.linkedin.com/in/chaykim) | [github.com/chaewonkimm](https://github.com/chaewonkimm)

## RESEARCH INTERESTS

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Human-aligned visual perception in images and videos; robust perception in noisy real-world settings; and reliable multisensory perception for embodied AI.

## EDUCATION

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**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

- Awarded multiple merit scholarships for academic excellence and extracurricular achievement.
- Received a full-tuition scholarship and research funding.

## EXPERIENCE

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**University of California, Irvine** Jun 2025 – Aug 2025  
Summer Research Intern

- 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

- 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

- 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

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- [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

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### Refining Visual Artifacts in Diffusion Models

Feb 2024 – Jul 2025

- 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

- 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

- 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

- 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

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### University Scholarships

2021 – 2024

- 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

- 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

- Customized System for Industrial Accident Prediction and Management.

### Finalist, BDA Competition – Model Optimization Track

2023

Korea Big Data Society, CJ Cheiljedang, South Korea

- Customer Prediction Modeling for CJ THE MARKET e-commerce platform.

## TEACHING

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### Vice President, AI · Big Data Society

Dec 2022 – Dec 2023

- Delivered twice-weekly lectures on data analysis, machine learning, and deep learning to 100+ members.
- Mentored students in regular study sessions to provide academic support and guidance.

## SERVICE

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### Reviewer, AAAI 2026