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Education

Ajou University Suwon, S.Korea

BACHELOR'S DEGREE

· Major in Software and Computer Engineering

Micro Degree in Artificial Intelligence in Medicine

Mar. 2019 - Present

Jan 2025 - Present

Jan. 2023 - May. 2023

Suwon, S.Korea

Suwon, S.Korea

Suwon, S.Korea

Suwon, S.Korea

Mar. 2024 - Aug. 2024

Jul. 2024 - Aug. 2024

Work Experience

KAIST DAVIAN Lab Seongnam, S.Korea

Undergraduate Researcher

· Deep learning basic study, participation in paper seminars.

Ajou CI Lab

Suwon, S.Korea Oct. 2024 - Dec. 2024 Undergraduate Researcher

· Study of text based Image Restoration.

Seoul National University Bundang Hospital, AI Center Seongnam, S.Korea

Al Intern Researcher

Mar. 2024 - Aug. 2024 • Study of uterine X-ray image classification model based on contrastive learning.

· Study of LLM based on Medical Information.

Insilicogen, Inc. Yongin, S.Korea

BACKEND FREELANCE, BIOINFORMATICS INTERNSHIP

Developed Backend server for healthcare challenge website.(https://hb-showcase.kr/)

Machine Learning, Data Analysis, CLC Genomics Workbench, OmicsBox, IPA

Research_

VINU UOLA

Image Restoration for Composite Degradation

Алои Иміу Sep. 2024 - PRESENT

Image Restoration Framework for Composite Degradation following Human Instructions.

Restoration proposal of multiple gradation using text prompt in human instruction format.

https://github.com/kimww42/ICDR

Long-CLIP without Hallucination and Concept Association Bias

AJOU UNIV Nov. 2024 - Dec. 2024

• Eliminating Hallucination and Concept Association Bias for Long Text-Image Alignment.

• We present a way to solve the long clip's bias problem to deal with long text.

3D Mesh Stylization with Multiple Prompting

· CLIP based 3D Mesh Stylization with Multiple Prompting.

• A proposal for a loss-splitting strategy to reflect multiple prompts well.

• https://github.com/kimww42/3DS-MP

Diagnosis for Tubal Patency Using Contrastive Learning

SEOUL NATIONAL UNIVERSITY BUNDANG HOSPITAL

· Study of uterine X-ray image classification model based on contrastive learning

Tubal Patency classification using Asymmetric Contrastive Loss.

• Asymetric contraptive learning proposal for addressing asymmetric data distribution.

Publications

ForestSplats: Deformable transient field for Gaussian Splatting in the Wild

Wongi Park, Myeongseok Nam, Siwon Kim, Sangwoo Jo, Soomok Lee

under review (ICCV 2025)

Mar. 2025

SIWON KIM · CURRICULUM VITAE APRIL 13, 2025

Efficient Deep Learning Approaches for Processing Ultra-Widefield Retinal Imaging

SIWON KIM, WOOYUNG YUN, JEONGBIN OH, SOOMOK LEE

MICCAIW 2024 Oct. 2024

Diagnosis for Tubal Patency with Contrast Medium in Hysterosalpingography Images
Using Asymmetric Contrastive Learning

CKAIA 2024

SIWON KIM, MYEONGJU KIM, JIN BYEONG PARK, HAERIN PAIK, YEON HEE HONG, JUNG RYEOL LEE

Aug. 2024

A Real-Time Eye Gaze Tracking Based Digital Mouse

SEHYUN KWAK, DAEHO LEE, SIWON KIM, JUNGHOON PARK

IMIS 2024 Jul. 2024

근육병 환자를 위한 단일 카메라 기반 시선 추적 연구

KIISS 2024

SIWON KIM, DAEHO LEE, SEHYUN KWAK, JUNGHOON PARK

May. 2024

Honors & Awards

CHALLENGE

2024	3rd Award , Ajou Softcon	Suwon, S. Korea
2023	8th Award, Medical Al Idea Challenge(MOHW, KHIDI)	Seoul, S. Korea
2023	2nd Award, SNUBH COVID-19 Datathon	S. Korea
2023	1st Award, K-ium Medical Al Competition(PNUH, KNUH, CNUH)	S. Korea
2021	1st Award , R.O.K 11Div Internal Security Threat Detection Contest	S. Korea
2018	Finalist, 2018 KOI(Korea Olympiad in Informatics) National Final	Seoul, S. Korea
2018	Encouragement Award, 2018 KOI(Korea Olympiad in Informatics) Busan Regional Preliminary	Busan, S. Korea
2017	Encouragement Award, 2017 KOI(Korea Olympiad in Informatics) Busan Regional Preliminary	Busan, S. Korea

SCHOLARSHIP

2024	Da-San Scholarship , students showed excellent grades in the department.	Ajou Univ, S.Korea
2023	Won-Cheon Scholarship, students showed excellent grades in the department.	Ajou Univ, S.Korea
2019	SW Competency Scholarship , students showed excellent SW competency.	Ajou Univ, S.Korea
2019	SW Excellent Talent Scholarship , students entered the school through SW Specialist Screening	Ajou Univ, S.Korea

Skills and Interests

Programming Langauge Python 3, C/C++, Java

Framework Pytorch, OpenCV, Django

Certifications Linux Master Level-II, Network Manager Level-II, Craftsman Information Processing

Languages English(OPIc IM2)

Interests Computer Vision, Image Synthesis, 3D Computer Vision, Contrastive Learning

Communities

 A.N.S.I
 Ajou Univ, S.Korea

 MEMBER
 Mar. 2019 - Dec. 2022

• Algorithm Research club at Ajou University