

Chanyoung Kim

Curriculum Vitae

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RESEARCH INTERESTS

Machine learning, Deep learning, Computer vision
Multi-modal representation learning, 3D Computer vision

EDUCATION

Sejong University

Bachelor of Science in Intelligent Mechatronics Engineering

Overall GPA : 3.96 / 4.5, Major GPA : 4.03 / 4.5

Seoul, South Korea

Mar. 2017 – Feb. 2023

PUBLICATIONS

- [1] **LISA: Localized Image Stylization with Audio via Implicit Neural Representation**, S.H.Lee*, **C.Kim***, W.Byeon, S.H.Yoon, J.Kim[†], S.Kim[†] (* equally contributed), *arXiv 2022* [PDF]
- [2] **Robust Sound-Guided Image Manipulation**, S.H.Lee, **C.Kim**, W.Byeon, G.Oh, J.Lee, S.H.Yoon, J.Kim*, S.Kim*, *arXiv 2022* [PDF]
- [3] **ORA3D: Overlap Region Aware Multi-view 3D Object Detection**, W.Roh, G.Chang, S.Moon, G.Nam, **C.Kim**, Y.Kim, S.Kim*, J.Kim*, *The British Machine Vision Conference (BMVC), 2022* [PDF]
- [4] **Sound-Guided Semantic Video Generation**, S.H.Lee, G.Oh, W.Byeon, **C.Kim**, W.J.Ryoo, H.Choi, S.H.Yoon, J.Bae, J.Kim*, S.Kim*, *European Conference on Computer Vision (ECCV) 2022* [PDF]
- [5] **Sound-Guided Semantic Image Manipulation**, S.H.Lee, W.Roh, W.Byeon, S.H.Yoon, **C.Kim**, J.Kim*, S.Kim*, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2022* [PDF]

RESEARCH EXPERIENCE

Medical Imaging & Computer Vision Lab @ Yonsei University

Mar. 2023 – Present

Advisor: Prof. Seong Jae Hwang

- Low-Level Computer Vision

Computer Vision Lab @ Korea University

Feb. 2021 – Dec. 2022

Advisor: Prof. Sangpil Kim

- Multi-modal Representation Learning (*joint research with NVIDIA Research*)
- 3D Computer Vision with Event Camera (*joint research with Meta Reality Lab*)

ACADEMIC SERVICE

Conference Reviewer

- *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) 2023*

TEACHING EXPERIENCE

LG CNS

Jul. 2021, Mar. 2022

- Teaching Assistant: Anomaly Detection Course for LG CNS Executives and Employees

PROJECT EXPERIENCES

Personal Privacy Free Autonomous Flight Drone Platform with Event Vision

Jul. 2021 – Feb. 2022

- Funded by National Research Foundation of Korea (NRF) and GWU, Washington D.C., USA

Real-time Object Detection for Embedded Systems on Drones

Sep. 2021 – Dec. 2021

- Proposed a light-weight object detector for drone vision.

Ultra-Light Weight Image Classification Model for Edge Computing Systems

Feb. 2021 – Jun. 2021

- Developed light weight food image classification model for oven.
- Funded by GE Appliances a Haier company

AWARDS & HONORS

LAB Start-up 2022	<i>1st Place</i> Feb. 2022
Sejong Scholarship for Outstanding GPA	<i>3rd Place</i> Sep. 2021
2021 Creative Makers Competition	<i>1st Place</i> Jun. 2021
2020 International Robot Contest	<i>5th Place</i> Nov. 2020
Seoul PM Hackathon	<i>5th Place</i> Jun. 2019
4th Sejong SW Hackathon	<i>2nd Place</i> Jun. 2018
XXIII Pyeongchang Olympic Winter Games	<i>Medal of Contribution</i> Feb. 2018

SKILLS

Programming

- Fluent in Python, Pytorch, Tensorflow, Scikit-Learn, Shell Script, Git, L^AT_EX
- Have foundation for C, Photoshop

Languages

- Native speaker in Korean
- Fluent in English (TOEIC 925)
- 2 years at McKinley School, Pasadena, CA, United States (2006 – 2008)