

Chanyoung Kim

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Research Interests 3D Computer Vision, Multi-modal Representation, Edge Computing

Education **Sejong University** Seoul, Republic of Korea
B.S. in Intelligence Mechatronics Engineering Mar. 2017 – Feb. 2023 (exp.)
GPA : 3.95 / 4.5 (6 out of 8 semesters)

Publications **Sound-guided Semantic Image Manipulation**
S.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
[\[PDF\]](#)

Sound-guided Semantic Video Generation
S.Lee, G.Oh, W.Byeon, J.Bae, **C.Kim**, W.J.Ryoo, S.H.Yoon, J.Kim*, S.Kim*
arXiv 2022 [\[PDF\]](#)

Audio-Semantic Manipulation for Artistic Paintings
S.Lee, N.Lee, **C.Kim**, W.Ryoo, J.Kim, S.H.Yoon*, S.Kim*
NeurIPS 2021 Workshop on ML for Creativity and Design [\[PDF\]](#)

Research Experience **Research Intern, Computer Vision Lab @ Korea University**
Advisor: Prof. Sangpil Kim (Dept. of AI) Feb. 2021 – Present
Research Area
- Event-based 3D Computer Vision (*joint research with Facebook Reality Lab*)
- Multi-modal Representation Learning (*joint research with NVIDIA*)

Skills **Programming**
Fluent in Python, Pytorch, Tensorflow, Scikit-Learn, Shell Script, Git,
Kaggle - Notebook Expert (World Ranking Top 0.3%)
Have foundation for C, Unity3D, Photoshop, \LaTeX

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

Project Experience **Personal Privacy Free Autonomous Drone** Jul. 2021 – Feb. 2022

Delivery Service Platform with Event Vision

founded by National Research Foundation of Korea (NRF)

George Washington University, Washington, D.C., USA

Real-time Object Detection for Embedded Systems on Drones

Sejong University

Sep. 2021 – Dec. 2021

Advisor: Prof. Jaekyu Suhr (Dept. of Intelligent Mechatronics Engineering)

Light Weight Image Classification Model

for Edge Computing Systems

Feb. 2021 – Jun. 2021

GE Appliances a Haier company

Teaching Experience

LG CNS

Teaching Assistant

July. 2021 – May. 2022

Anomaly Detection Course for LG CNS Executives and Employees

Awards

LAB Start-up 2022

1st Prize

Feb. 2022

awarded by the President of Korea University.

Team topic : "Personal Privacy Free Object Detector for Drone with Event Vision"

2021 KU π -Ville Start-Up Demo Day

2nd Prize

Oct. 2021

awarded by the Head of the Crimson Start-Up Support Team, Korea Univ.

Team topic : "Delivery Drone Platform"

2021 Creative Makers Competition

1st Prize

Jun. 2021

awarded by the Dean of Software Convergence College, Sejong Univ.

Team topic : "Model Optimization Method for Light Embedded Systems"

2020 International Robot Contest

4th Prize

Nov. 2020

AI Mission Challenge

Team topic : "Autonomous Flight Drone"

XXIII Pyeongchang Olympic Winter Games

Award of Excellence

Feb. 2018

awarded by President of International Olympic Committee(IOC)

Medal of Contribution

Jul. 2019

awarded by Republic of Korea Government Minister of Culture, Sports and Tourism

2019 Seoul PM Hackathon

5th Prize

Jun. 2019

awarded by Head of the Seoul Institute of Technology.

Team topic : "PM Mask Recommendation Depending On Personal State and Estimated Life Shortening Prediction based on AI Model"

4th Sejong SW Hackathon

2nd Prize

Jun. 2018

awarded by Director of Leading University for Excellence in Software Education Project, Sejong Univ.

Club Activities

SMARCLE @ Sejong University

Vice President

Sep. 2017 – Feb.2022

I have established an AI club; led a study and various research.

www.smarcle.dev

Scholarship

Sejong Scholarship for Outstanding GPA.

Sep. 2021 – Dec. 2021

40% tuition for one semester