

Chan Young Kim

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

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

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

Sound-Guided Semantic Image Manipulation
S.Lee, W.Roh, W.Byeon, S.H.Yoon, C.Y.Kim, J.Kim*, S.Kim*
arXiv 2021 [PDF]

Domestic Papers **Performance Evaluation on Inference Time of Ocular Disease Classifier Based on Light Embedded Systems**
D.Sim, C.Y.Kim, S.Kwak, J.Bae, W.J.Shin, H.S. Kim*
The Institute of Electronics and Information Engineers, July. 2021

Optimization of Deep Learning based Object Detector for Embedded UAV Systems
J.Park, S.Park, C.Y.Kim, J.K.Suhr*
The Institute of Electronics and Information Engineers, Nov. 2021

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 Data Fusion

Teaching Experience **Korea National Council on Social Welfare**
Mentor Jun. 2020 – Dec. 2021
Mentoring IoT, Arduino and Machine Learning to age between 12–14

LG CNS
Teaching Assistant July. 2021 – Aug. 2021
Anomaly Detection Course for LG CNS Executives and Employees

Project Experience

Ultra-Light Weight Image Classification Model for Edge Computing Systems

Feb. 2021 – Jun. 2021

GE Appliances a Haier company

Personal Privacy Free Autonomous Drone Delivery Service Platform with Event Vision

Jul. 2021 – Present

founded by National Research Foundation of Korea (NRF)

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

Photometric Stereo using Event Camera

Sep. 2021 – Nov. 2021

Computer Vision Lab @ Korea University

Real-time Object Detection for Embedded Systems on Drones

Sejong University

Sep. 2021 – Dec. 2021

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

Awards

4th Sejong SW Hackathon

2nd Prize

Jun. 2018

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

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"

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*

2020 International Robot Contest

4th Prize

Nov. 2020

AI Mission Challenge

Team topic : "Autonomous Flight Drone"

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"

10th Sejong SW/AI Hackathon**4th Prize**

Oct. 2021

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

Team topic : "AI based Stock Price Prediction and Recommendation"

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.***Club Activities****SMARCLE @ Sejong University***Vice President*

Sep. 2017 – Present

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***Skills****Programming**

Proficient in: Python

Familiar with: C

Tools

Proficient in: MS Office, Tensorflow, Scikit-Learn, Ubuntu, Git,

Kaggle - Notebook Expert (Rank 1581)

Familiar with: Pytorch, Unity3D, Photoshop, Android Studio, \LaTeX **Languages**

Native Speaker in Korean

Proficient in English

- TOEIC 870

- 2 years at McKinley School, Pasadena, CA, USA (2006 – 2008)