

# Chanyoung Kim

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

**Education** **Sejong University** Seoul, Republic of Korea  
B.S. in Intelligence Mechatronics Engineering Mar. 2017 – Feb. 2023 (exp.)  
Major GPA : 4.03 / 4.5 (7 out of 8 semesters)

**Publications** **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\*  
*European Conference on Computer Vision (ECCV) 2022* [PDF]

**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]

**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 0.23%)  
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	<b>Personal Privacy Free Autonomous Drone Delivery Service Platform with Event Vision</b> <i>founded by National Research Foundation of Korea (NRF)</i> <i>George Washington University, Washington, D.C., USA</i>	Jul. 2021 – Feb. 2022
	<b>Real-time Object Detection for Embedded Systems on Drones</b> <i>Sejong University</i> <i>Advisor: Prof. Jaekyu Suhr (Dept. of Intelligent Mechatronics Engineering)</i>	Sep. 2021 – Dec. 2021
	<b>Depth Estimation using Event Signal</b> <i>Computer Vision Lab, Korea University</i> <i>joint research with Facebook Reality Lab</i>	Jun. 2021 – Sep. 2021
	<b>Light Weight Image Classification Model for Edge Computing Systems</b> <i>GE Appliances a Haier company</i>	Feb. 2021 – Jun. 2021
Teaching Experience	<b>LG CNS</b> <i>Teaching Assistant</i> <i>Anomaly Detection Course for LG CNS Executives and Employees</i>	July. 2021 – Aug. 2021, May. 2022
Awards	<b>2022 Creative Makers Competition</b> <b>3rd Prize</b> <i>awarded by the Dean of Software Convergence College, Sejong Univ.</i> <i>Team topic : "Lightweight YOLOv4-based Object Detector Using Drone and Edge Computing"</i>	Jun. 2022
	<b>LAB Start-up 2022</b> <b>1st Prize</b> <i>awarded by the President of Korea University.</i> <i>Team topic : "Personal Privacy Free Object Detector for Drone with Event Vision"</i>	Feb. 2022
	<b>2021 KU <math>\pi</math>-Ville Start-Up Demo Day</b> <b>2nd Prize</b> <i>awarded by the Head of the Crimson Start-Up Support Team, Korea Univ.</i> <i>Team topic : "Delivery Drone Platform"</i>	Oct. 2021
	<b>2021 Creative Makers Competition</b> <b>1st Prize</b> <i>awarded by the Dean of Software Convergence College, Sejong Univ.</i> <i>Team topic : "Model Optimization Method for Light Embedded Systems"</i>	Jun. 2021

**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](http://www.smarcle.dev)

**Scholarship**

**Sejong Scholarship for Outstanding GPA.**

Sep. 2021 – Dec. 2021

*40% tuition for one semester*