

# Chanyoung Kim

## Curriculum Vitae

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### RESEARCH INTERESTS

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Machine learning, Deep learning, Computer vision  
Semantic Segmentation, Multi-modal representation learning

### EDUCATION

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#### Yonsei University

*Master Student in Dept. of Artificial Intelligence*

Advisor : Prof. Seong Jae Hwang, GPA : 4.3 / 4.3

Seoul, Republic of Korea

*Sep. 2023 – Present*

#### Sejong University

*Bachelor of Science in Intelligent Mechatronics Engineering*

GPA : 3.96 / 4.5

Seoul, Republic of Korea

*Mar. 2017 – Feb. 2023*

### PUBLICATIONS

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(Equal contribution are denoted by “\*”.)

[1] W.Han\*, C.Kim\*, D.Ju, Y.Shim, S.J.Hwang, “**Advancing Text-Driven Chest X-Ray Generation with Policy-Based Reinforcement Learning**”, *arXiv 2024*

[2] C.Kim\*, W.Han\*, D.Ju, S.J.Hwang, “**EAGLE: Eigen Aggregation Learning for Object-centric Unsupervised Semantic Segmentation**”, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2024* [PDF]

[3] S.H.Lee\*, C.Kim\*, W.Byeon, S.H.Yoon, J.Kim, S.Kim, “**LISA: Localized Image Stylization with Audio via Implicit Neural Representation**”, *arXiv 2022* [PDF]

[4] W.Roh, G.Chang, S.Moon, G.Nam, C.Kim, Y.Kim, S.Kim, J.Kim, “**ORA3D: Overlap Region Aware Multi-view 3D Object Detection**”, *The British Machine Vision Conference (BMVC), 2022* [PDF]

[5] S.H.Lee, G.Oh, W.Byeon, C.Kim, W.J.Ryoo, H.Choi, S.H.Yoon, J.Bae, J.Kim, S.Kim, “**Sound-Guided Semantic Video Generation**”, *European Conference on Computer Vision (ECCV) 2022* [PDF]

[6] S.H.Lee, W.Roh, W.Byeon, S.H.Yoon, C.Kim, J.Kim, S.Kim, “**Sound-Guided Semantic Image Manipulation**”, *IEEE/CVF Conference on Computer Vision and Pattern Recognition (CVPR) 2022* [PDF]

### RESEARCH EXPERIENCE

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#### Medical Imaging & Computer Vision Lab @ Yonsei University

Mar. 2023 – Present

*Advisor: Prof. Seong Jae Hwang*

- Semantic Segmentation
- Multi-modal Image Synthesis

#### 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

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#### Conference Reviewer

- *IEEE/CVF Computer Vision and Pattern Recognition Conference (CVPR) 2024*
- *IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) 2023*

## TEACHING EXPERIENCE

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|  |                       |
|--|-----------------------|
| <b>Upstage</b>   | Sep. 2023 – Jan. 2024 |
| • Teaching Assistant: AI Boostcamp   |                       |
| <b>Elice - Samsung Electronics</b>   | Aug. 2023             |
| • Lecturer: Data Analysis and AI Course for Samsung Electronics Executives and Employees |                       |
| <b>Elice - LOTTE Corporation</b>   | Apr. 2023             |
| • Teaching Assistant: Python Course for LOTTE Group Executives and Employees             |                       |
| <b>LG CNS</b>  | Jul. 2021, Mar. 2022  |
| • Teaching Assistant: Anomaly Detection Course for LG CNS Executives and Employees       |                       |

## PROJECT EXPERIENCES

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|---|-----------------------|
| <b>Personal Privacy Free Autonomous Flight Drone Platform with Event Vision</b>       | Jul. 2021 – Feb.2022  |
| • Funded by National Research Foundation of Korea (NRF) and GWU, Washington D.C., USA |                       |
| <b>Real-time Object Detection for Embedded Systems on Drones</b>                      | Sep. 2021 – Dec. 2021 |
| • Proposed a light-weight object detector for drone vision.                           |                       |
| <b>Ultra-Light Weight Image Classification Model for Edge Computing Systems</b>       | Feb. 2021 – Jun. 2021 |
| • Developed light weight food image classification model for oven.                    |                       |
| • Funded by GE Appliances a Haier company   |                       |

## AWARDS & HONORS

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

## SKILLS

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| <b>Programming</b>  |
| • Fluent in Python, Pytorch, Tensorflow, Scikit-Learn, Shell Script, Git, L <sup>A</sup> T <sub>E</sub> X |
| • Have foundation for C, Photoshop  |
| <b>Languages</b>  |
| • Native speaker in Korean  |
| • Fluent in English (TOEIC 925)   |
| • 2 years at Mckinley School, Pasadena, CA, United States (2006 – 2008)                                   |