Chanyoung Kim

Curriculum Vitae

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RESEARCH INTERESTS

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

EDUCATION

Yonsei University Seoul, Republic of Korea

Master Student in Dept. of Artificial Intelligence *Sep. 2023 – Present*
Advisor : Prof. Seong Jae Hwang, GPA : 4.3 / 4.3

Sejong University Seoul, Republic of Korea

Bachelor of Science in Intelligent Mechatronics Engineering *Mar. 2017 – Feb. 2023*
GPA : 3.96 / 4.5

PUBLICATIONS

(Equal contribution are denoted by "".)*

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

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

[3] **"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]

[4] **"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]

[5] **"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]

[6] **"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

- 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

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

Upstage   Sep. 2023 – Jan. 2024
- Teaching Assistant: AI Boostcamp

Elice - Samsung Electronics   Aug. 2023
- Lecturer: Data Analysis and AI Course for Samsung Electronics Executives and Employees

Elice - LOTTE Corporation   Apr. 2023
- Teaching Assistant: Python Course for LOTTE Group Executives and Employees

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   *1st Place* Feb. 2022
Sejong Scholarship for Outstanding GPA   *3rd Place* Sep. 2021
2020 International Robot Contest   *5th Place* Nov. 2020
Seoul PM Hackathon   *5th Place* Jun. 2019
XXIII Pyeongchang Olympic Winter Games   *Medal of Contribution* Feb. 2018

Skills

Programming
- Fluent in Python, Pytorch, Tensorflow, Scikit-Learn, Shell Script, Git, LaTeX
- 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)