

Jinsu Yoo – Curriculum Vitae

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Interests

Computer vision and machine learning, and their application to autonomous driving

Education

The Ohio State University, Columbus, OH 2023 – present
Ph.D., Computer Science & Engineering, advised by Wei-Lun (Harry) Chao

Hanyang University, Seoul, Korea 2020 – 2022
M.S., Artificial Intelligence, advised by Tae Hyun Kim

Hanyang University, Seoul, Korea 2014 – 2020
B.S., Computer Science & Engineering, *summa cum laude*

Publications

* denotes equal contribution. More information can be found on [Google Scholar](#).

Semantic-Aware Dynamic Parameter for Video Inpainting Transformer [link]
Eunhye Lee*, [Jinsu Yoo*](#), Yunjeong Yang, Sungyong Baik, Tae Hyun Kim
International Conference on Computer Vision (ICCV), 2023.

Enriched CNN-Transformer Feature Aggregation Networks for Super-Resolution [link]
[Jinsu Yoo](#), Taehoon Kim, Sihaeng Lee, Seung Hwan Kim, Honglak Lee, Tae Hyun Kim
Winter Conference on Applications of Computer Vision (WACV), 2023.

Fully Convolutional Transformer with Local-Global Attention [link]
Sihaeng Lee*, Eojindl Yi*, Janghyeon Lee, [Jinsu Yoo](#), Honglak Lee, Seung Hwan Kim
International Conference on Intelligent Robots and Systems (IROS), 2022.

Self-Supervised Adaptation for Video Super-Resolution [link]
[Jinsu Yoo](#), Tae Hyun Kim
arXiv preprint, 2021.

Fast Adaptation to Super-Resolution Networks via Meta-Learning [link]
Seobin Park*, [Jinsu Yoo*](#), Donghyeon Cho, Jiwon Kim, Tae Hyun Kim
European Conference on Computer Vision (ECCV), 2020.

Experience

The Ohio State University, Columbus, OH Aug 2023 – present
Research Assistant, advised by Wei-Lun Chao

- Working on robust perception for autonomous driving.

Hanyang University, Seoul, Korea 2019, Sep 2020 – Aug 2022
Research Assistant, advised by Tae Hyun Kim

- Proposed video inpainting transformer that can leverage given video's semantic cues. [ICCV 2023]
- Developed self-supervised test-time adaptation methods for super-resolution. [ECCV 2020]

LG AI Research, Seoul, Korea Jul 2021 – Dec 2021
Research Intern, mentored by Taehoon Kim

- Proposed effective CNN-transformer aggregation network for image restoration. [WACV 2023]
- Provided the initial idea of flexible local-and-global attention mechanism. [IROS 2022]

Seoul National University, Seoul, Korea Mar 2020 – Jun 2020
Research Intern, advised by Gunhee Kim

- Improved imbalanced image classification accuracy by utilizing transfer learning.

University of California, Irvine, Irvine, CA Dec 2017 – Feb 2018
Visiting Student (Undergraduate Research Opportunity Program)

- Led a project to find a common subtree shared between two sentences.

Republic of Korea Air Force, Seongnam, Korea Aug 2015 – Aug 2017
Signaller, Sergeant (mandatory military service)

Honors & Awards	Study Abroad Scholarship (10 exceptional alumni), Hanyang University	2023
	Outstanding Reviewer Award (top 4%), ECCV 2022 [link]	2022
	HY-IN Scholarship (for being an exceptional graduate student), Hanyang University	2020 – 2022
	Graduation Excellence Award (for academic achievements), Hanyang University	2020
	Grand Prize (2 out of 66 teams), Undergraduate Project Competition, Hanyang University	2019
	Hanyang Academic Excellence Award (awarded twice), Hanyang University	2019
	Merit-based Scholarship (5 semesters), Hanyang University	2015 – 2019

Service Conference Reviewer: CVPR 2022-2024, ICCV 2023, ECCV 2022, WACV 2021-2024, ACCV 2022