

Yeonsung Jung

PH.D. CANDIDATE · KAIST AI

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Research Interests

My current research interests lie in building **Self-improving agents** (closely working with Ninareh Mehrabi and Sina Shaham from Meta Superintelligence Labs) and developing **Reliable Visual reasoning** for vision–language models. Beyond these, I have explored a broad range of topics in **Reliable AI**, including model robustness spanning both 2D and 3D vision as well as domain-agnostic methods, **Jailbreaking in MLLMs**, **Visual Autoregressive Models**, and **Image editing**.

Education

Ph.D. in Graduate School of AI

Korea Advanced Institute of Science and Technology (KAIST)

Seoul, Korea

Sep. 2020 – Present

- Advisor: Prof. Eunho Yang

M.S.E. in Electrical and Computer Engineering

Sungkyunkwan University (SKKU)

Suwon, Korea

- Advisor: Prof. Joyce Jiyoung Whang

B.Ec. in Statistics & B.E. in Computer Science and Engineering

Sungkyunkwan University (SKKU)

Suwon, Korea

- Advisor: Prof. Joyce Jiyoung Whang

Preprints

Co-Evolving Agents: Learning from Failures as Hard Negatives

Yeonsung Jung, Trilok Padhi, Sina Shaham, Dipika Khullar, Joonhyun Jeong, Ninareh Mehrabi[†], Eunho Yang[†]

Web Agents Are Still Greedy: Progress-Aware Action Generation and Selection via Meta-Plan

Joonhyun Jeong, Gilhyun Nam, **Yeonsung Jung**, Eunho Yang

MeZO-A3dam: Memory-efficient Zeroth-order Adam with Adaptivity Adjustments for Fine-tuning LLMs

Sihwan Park*, Jihun Yun*, Sung-Yub Kim, June Yong Yang, **Yeonsung Jung**, Souvik Kundu, Kyungsu Kim, Eunho Yang

3D Scene Decomposition under Occlusion via Multi-view-aware Inpainting

Heecheol Yun, **Yeonsung Jung**, Eunho Yang

Conference Publications

Early Timestep Zero-Shot Candidate Selection for Instruction-Guided Image Editing

ICCV 2025

Joowon Kim, Ziseok Lee, Donghyeon Cho, Sanghyun Jo, **Yeonsung Jung**, Kyungsu Kim, Eunho Yang

Playing the Fool: Jailbreaking LLMs and Multimodal LLMs with Out-of-Distribution Strategy

CVPR 2025

Joonhyun Jeong, Seyun Bae, **Yeonsung Jung**, Jaeryong Hwang, Eunho Yang

Preserve or Modify? Context-Aware Evaluation for Balancing Preservation and Modification in Text-Guided Image Editing

CVPR 2025

Yoonjeon Kim*, Soohyun Ryu*, **Yeonsung Jung**, Hyunkoo Lee, Joowon Kim, June Yong Yang, Jaeryong Hwang, Eunho Yang

LANTERN: Accelerating Visual Autoregressive Models with Relaxed Speculative Decoding

ICLR 2025

Doohyuk Jang*, Sihwan Park*, June Yong Yang, **Yeonsung Jung**, Jihun Yun, Souvik Kundu, Sung-Yub Kim[†], Eunho Yang[†]

A Simple Remedy for Dataset Bias via Self-Influence: A Mislabeled Sample Perspective

NeurIPS 2024

Yeonsung Jung^{*}, Jaeyun Song^{*}, June Yong Yang, Jinhwa Kim, Sung-Yub Kim, Eunho Yang

PruNeRF: 3D-Aware Segment-Centric Dataset Pruning

ICML 2024

Yeonsung Jung, Heecheol Yun, Joonhyung Park, Jinhwa Kim[†], Eunho Yang[†]

Yeonsung Jung, Hajin Shim, June Yong Yang, Eunho Yang**Scalable Anti-TrustRank with Qualified Site-level Seeds for Link-based Web Spam Detection**

WWW Workshop 2020

Joyce Jiyoung Whang, **Yeonsung Jung**, Seonggoo Kang, Dongho Yoo, Inderjit S. Dhillon**Fast Asynchronous Anti-TrustRank for Web Spam Detection**

WSDM Workshop 2018

Joyce Jiyoung Whang, **Yeonsung Jung**, Inderjit S. Dhillon, Seonggoo Kang, Jungmin Lee

Work Experience

External Collaborator, NAVER AI

Seongnam, Korea

PROJECT: ROBUST LEARNING IN NEURAL RADIANCE FIELDS (*PruNeRF*, PRESENTED AT ICML 2024, VIENNA)

Sep. 2023 – Feb. 2024

Research Intern, NAVER Search

Seongnam, Korea

PROJECT: IMPROVE SEARCH PERFORMANCE THROUGH CLICK GRAPH CONVOLUTIONAL NETWORKS (APPLIED TO PRODUCTION)

Jul. 2019 – Aug. 2019

Academic Services

NeurIPS	Reviewer
ICML	Reviewer
ICLR	Reviewer
CVPR	Reviewer
ICCV	Reviewer
AAAI	Reviewer
AISTATS	Reviewer
NAACL	Reviewer

Teaching Experience

Instructor, LG Innotek

2022–2025

Machine Learning & Deep Learning Basics (PBL)

Instructor, HD Hyundai

2023

AI-Driven Anomaly Detection and Predictive Maintenance for Construction Machinery Operating Oil

AI-Based Prediction of Remaining Useful Life (RUL) for Construction Machinery Bearings

Image Segmentation for Environmental Recognition at Construction Sites

Teaching Assistant, Daewoo Shipbuilding & Marine Engineering (DSME)

2022–2023

Augmentation, Self-supervised Learning, and NeRF

Recent Advances in GANs

Image to Image Translation & Spurious Correlation

Teaching Assistant, SAMSUNG DS

2020–2022

Bayesian Learning Basics

Deep Generative Models

Machine Learning Basics

Data Analysis, Machine Learning, and AI

Instructor, LG Electronics

2022

Kaggle Data Analysis with Python

Instructor, LG Chem.

2022

AI Projects for Manufacturing Processes (PBL)