

Chanyoung Kim

CONTACT INFORMATION

🏠 **Homepage:** <https://kochanha.github.io/>
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RESEARCH INTERESTS

Visual Foundation Models

- Aligning vision-language models for generalizable visual understanding (CVPR 2025)
- Unsupervised spectral learning of image representations (CVPR 2024, 2025)
- Task-specific adaptation of foundation model features (CVPR 2024, 2025)

Generative Models

- Controllable text-to-image synthesis (CVPR 2025; MICCAI 2024, 2025)
- Audio-visual representation-guided image generation (CVPR 2022; ECCV 2022)

WORK EXPERIENCE

The Boeing Company Seoul, South Korea
Machine Learning Research Intern Aug 2025 – Present

EDUCATION

Yonsei University Seoul, South Korea
M.S. in Artificial Intelligence Sep 2023 – Feb 2026
Advisor: Prof. Seong Jae Hwang

- Collaborating with Prof. Ming-Hsuan Yang (UC Merced & Google DeepMind)
- Collaborating with Dr. Roberto Alcover-Couso (Amazon)

Sejong University Seoul, South Korea
B.S. in Intelligent Mechatronics Engineering Mar 2017 – Feb 2023
• Undergraduate Intern @ Computer Vision Lab, Korea University

ACADEMIC SERVICE

Conference (Workshop) Organizing Committee
MICCAI Student Board - *Local Student Liaison Officer*
• Organizing workshops, webinars, and conference events for MICCAI 2025

Conference Reviewer

- CVPR 2024, 2025 - ICCV 2025
- NeurIPS 2025 - ECCV 2024

Journal Reviewer

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)

CONFERENCE PUBLICATIONS

Chanyoung Kim, Dayun Ju, Woojung Han, Ming-Hsuan Yang, Seong Jae Hwang, “[Distilling Spectral Graph for Object-Context Aware Open-Vocabulary Semantic Segmentation](#)”, *CVPR* 2025 [PDF] ([Highlight](#) at *CVPRW* 2025 - *Transformers for Vision*)

Chanyoung Kim*, Dayun Ju*, Jinyeong Kim, Woojung Han, Roberto Alcover-Couso, Seong Jae Hwang, “[Pathology-Aware Adaptive Watermarking for Text-Driven Medical Image Synthesis](#)”, *MICCAI* 2025 ([Early Acceptance](#), AR $\leq 9\%$) [PDF] ([Oral](#) presentation at *MICCAI* 2025 Workshop - *MSB EMERGE*)

Chanyoung Kim*, Woojung Han*, Dayun Ju, Seong Jae Hwang, “[EAGLE: Eigen Aggregation Learning for Object-Centric Unsupervised Semantic Segmentation](#)”, *CVPR* 2024 (**Highlight**, AR $\leq 2.8\%$) [PDF] (Short version at *CVPRW* 2024 - *Causal and Object-Centric Representations for Robotics*)

Woojung Han*, **Chanyoung Kim***, Dayun Ju, Yumin Shim, Seong Jae Hwang, “[Advancing Text-Driven Chest X-Ray Generation with Policy-Based Reinforcement Learning](#)”, *MICCAI* 2024 (**Spotlight**, AR $\leq 3.4\%$) [PDF]

Woojung Han, Yeonkyeong Lee, **Chanyoung Kim**, Seong Jae Hwang, “[Spatial Transport Optimization by Repositioning Attention Map for Training-Free Text-to-Image Synthesis](#)”, *CVPR* 2025 [PDF] (Short version at *CVPRW* 2025 - *Generative Models for Computer Vision*)

Seung Hyun Lee, Gyeongrok Oh, Wonmin Byeon, **Chanyoung Kim**, Wonjeong Ryoo, Sang Ho Yoon, Hyunjun Cho, Jihyun Bae, Jinkyu Kim, Sangpil Kim, “[Sound-Guided Semantic Video Generation](#)”, *ECCV* 2022 [PDF]

Seung Hyun Lee, Wonseok Roh, Wonmin Byeon, Sang Ho Yoon, **Chanyoung Kim**, Jinkyu Kim, Sangpil Kim, “[Sound-Guided Semantic Image Manipulation](#)”, *CVPR* 2022 [PDF]

Wonseok Roh, Gyusam Chang, Seokha Moon, Giljoo Nam, **Chanyoung Kim**, Younghyun Kim, Jinkyu Kim, Sangpil Kim, “[ORA3D: Overlap Region Aware Multi-view 3D Object Detection](#)”, *BMVC* 2022 [PDF]

PREPRINTS

Seung Hyun Lee*, **Chanyoung Kim***, Wonmin Byeon, Sang Ho Yoon, Jinkyu Kim, Sangpil Kim, “[LISA: Localized Image Stylization with Audio via Implicit Neural Representation](#)”, *arXiv Preprint* [PDF]

Donghyun Kim, Hyunah Ko, **Chanyoung Kim**, Seong Jae Hwang, “[Fourier Decomposition for Explicit Representation of 3D Point Cloud Attributes](#)”, *arXiv Preprint* [PDF]

WORKSHOP PUBLICATIONS

Seung Hyun Lee, Nahyuk Lee, **Chanyoung Kim**, Wonjeong Ryoo, Jinkyu Kim, Sang Ho Yoon, S. Kim, “[Audio-Guided Image Manipulation for Artistic Paintings](#)”, *NeurIPSW 2022 - ML for Creativity and Design*

HONORS AND AWARDS

| | |
|---|------------------------------|
| Excellent Academic Paper Award (Fall 2024) | Yonsei University |
| LAB Start-up 2022 | Korea University |
| Korea University π -ville Demo Day 2021 | Korea University |
| Sejong Scholarship for Outstanding GPA | Sejong University |
| Seoul PM Hackathon | Seoul Metropolitan City |
| XXIII Pyeongchang Olympic Winter Games | Republic of Korea Government |

TEACHING EXPERIENCES

Yonsei University

- TA: “Deep Learning Introduction and Applications” (Spring 2024, 2025)
- TA: “Computer Vision” (Fall 2023)

Samsung Electronics

- Lecturer: “Introductions to Data Science” (Aug. 2023)

SKILLS

Programming

- Python, Deep Learning Frameworks (Pytorch, Pytorch Lightning, TensorFlow), Python Libraries (Diffusers, Hugging Face, MMCV, Scikit-Learn, etc), Shell Script, Git, L^AT_EX

Languages

- Fluent in English
- Native speaker in Korean

REFERENCES

Prof. Seong Jae Hwang: Thesis Advisor
Associate Professor at Yonsei University

Prof. Ming-Hsuan Yang: Collaborator & Mentor
Professor & Research Scientist at UC Merced & Google DeepMind

Dr. Wonmin Byeon: Collaborator
Research Scientist at NVIDIA Research

Dr. Roberto Alcover-Couso: Collaborator
Applied Scientist at Amazon