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 ≤ 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 ≤ 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, LaTeX

Languages
- Fluent in English (2 years at McKinley School, Pasadena, CA (2006 - 2008))
- Native speaker in Korean

REFERENCES   **Prof. Seong Jae Hwang** (PhD Advisor), Associate Professor, Yonsei University

Prof. Ming-Hsuan Yang, Professor & Research Scientist, UC Merced & Google DeepMind

Dr. Wonmin Byeon, Research Scientist, NVIDIA Research

Dr. Roberto Alcover-Couso, Applied Scientist, Amazon