

CONTACT
INFORMATION

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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 & trustworthy T2I models (CVPR 2025; MICCAI 2024, 2025)
- Audio-visual representation-guided image generation (CVPR 2022; ECCV 2022)

WORK
EXPERIENCE

WHATsLAB

Robotics Research Engineer

Seoul, South Korea
Mar 2026 – Jul 2026

The Boeing Company

AI/ML Research Intern @ Boeing AI

Seoul, South Korea
Aug 2025 – Dec 2025

EDUCATION

Emory University

Ph.D. in Computer Science & Informatics

Advisor: **Prof. Youngjoong Kwon**

Atlanta, GA, United States
Aug 2026 – Present

Yonsei University

M.S. in Artificial Intelligence

Advisor: **Prof. Seong Jae Hwang**

Seoul, South Korea
Sep 2023 – Aug 2026

Sejong University

B.S. in Intelligent Mechatronics Engineering

- Undergraduate Intern @ Computer Vision Lab, Korea University

Seoul, South Korea
Mar 2017 – Feb 2023

ACADEMIC
SERVICE

Organizing Committee

- MICCAI Student Board - Professional Events Officer

- Organizing workshops, webinars, and conference events for MICCAI Conference

Conference Reviewer

- CVPR 2024, 2025, 2026
- ICCV 2025
- NeurIPS 2025
- ECCV 2024

Journal Reviewer

- IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)
- International Journal of Computer Vision (IJCV)

SELECTED
PUBLICATIONS
(1st/2nd author only)

Donghyun Kim, **Chanyoung Kim**, Youngjoong Kwon, Seong Jae Hwang, “[Delaunay Canopy: Building Wireframe Reconstruction from Airborne LiDAR Point Clouds via Delaunay Graph](#)”, *ECCV* 2026 [PDF]

Dayun Ju, **Chanyoung Kim**, Sunyoung Jung, Hyo-Jung Jung, Chena Lee, Youn-jung Park, Seong Jae Hwang, “Anatomically Consistent TMJ Disc Segmentation via Semantic Anchoring and Clinical Priors”, *MICCAI* 2026 [PDF]

Chanyoung Kim, Donghyun Kim, Donghyun Sim, Seong Jae Hwang, Youngjoong Kwon, “Rethinking Graph Convolution for 2D-to-3D Hand Pose Lifting”, *CVPRW* 2026 - PhysHuman **Oral** [PDF]

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]

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

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* [PDF]

OTHER PUBLICATIONS

Kyobin Choo, Youngmin Kim, Hyunkyung Han, Geunrip Park, **Chanyoung Kim**, Sunyoung Jung, Seong Jae Hwang, “QWERTY: Training-Free Motion Control via Query-Warped Video Diffusion Transformers”, *ECCV* 2026 [PDF]

Taejin Jeong*, Joohyeok Kim*, Jinyeong Kim, **Chanyoung Kim**, Seong Jae Hwang, “FEAST: Fully Connected Expressive Attention for Spatial Transcriptomics”, *CVPR* 2026 [PDF]

Hyo-Jung Jung*, Dayun Ju*, **Chanyoung Kim**, Seong Jae Hwang, Chena Lee, Youn-jung Park, “Multimodal Deep Learning with Anatomically Constrained Attention for Screening MRI-Detectable TMJ Abnormalities From Panoramic Images”, *npj Digital Medicine* 2026 (IF 15.1) [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]

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

HONORS AND
AWARDS

Korean Government Scholarship for Study Overseas
Excellent Academic Paper Award (Fall 2024)
LAB Start-up 2022
Korea University π -ville Demo Day 2021
Sejong Scholarship for Outstanding GPA
Seoul PM Hackathon
XXIII Pyeongchang Olympic Winter Games

S.Korean Government
Yonsei University
Korea University
Korea University
Sejong University
Seoul Metropolitan City
S.Korean Government

TEACHING
EXPERIENCES

Yonsei University

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

Elice - Samsung Electronics

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

REFERENCES

Prof. Youngjoong Kwon: PhD Thesis Advisor
Assistant Professor at Emory University

Prof. Seong Jae Hwang: MS 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