

Chanyoung Kim

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

EDUCATION

M.S. & Ph.D. in Artificial Intelligence, Yonsei University, Seoul, Korea 2023–2028
Advisor: [Prof. Seong Jae Hwang](#)

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

B.S. in Intelligent Mechatronics Eng., Sejong University, Seoul, Korea 2017–2023

RESEARCH EXPERIENCE

Medical Imaging & Computer Vision Lab, Yonsei University
Graduate Research Assistant 2023–Present

Computer Vision Lab, Korea University
Undergraduate Research Intern 2021–2022
Collaborated with [Dr. Wonmin Byeon](#) (NVIDIA Research)

ACADEMIC SERVICE

Conference (Workshop) Organizing Committee

MICCAI Student Board - Local Student Liaison Officer

- Organizing workshops, webinars, and conference events for MICCAI 2025
- Check out our events [\[HERE\]](#)

Conference Reviewer

CVPR 2024, 2025 ICCV 2025
NeurIPS 2025 ECCV 2024

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 [\[PDF\]](#)

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%) [\[PDF\]](#)

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*)

	<p>Woojung Han*, Chanyoung Kim*, Dayun Ju, Yumin Shim, Seong Jae Hwang, “Advancing Text-Driven Chest X-Ray Generation with Policy-Based Reinforcement Learning”, <i>MICCAI</i> 2024 (Spotlight, AR $\leq 3.4\%$) [PDF]</p> <p>Woojung Han, Yeonkyeong Lee, Chanyoung Kim, Seong Jae Hwang, “Spatial Transport Optimization by Repositioning Attention Map for Training-Free Text-to-Image Synthesis”, <i>CVPR</i> 2025 [PDF] (Short version at <i>CVPRW 2025 - Generative Models for Computer Vision</i>)</p> <p>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”, <i>ECCV</i> 2022 [PDF]</p> <p>Seung Hyun Lee, Wonseok Roh, Wonmin Byeon, Sang Ho Yoon, Chanyoung Kim, Jinkyu Kim, Sangpil Kim, “Sound-Guided Semantic Image Manipulation”, <i>CVPR 2022</i> [PDF]</p> <p>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”, <i>BMVC</i> 2022 [PDF]</p>												
PREPRINTS	<p>Seung Hyun Lee*, Chanyoung Kim*, Wonmin Byeon, Sang Ho Yoon, Jinkyu Kim, Sangpil Kim, “LISA: Localized Image Stylization with Audio via Implicit Neural Representation”, <i>arXiv Preprint</i> [PDF]</p> <p>Donghyun Kim, Hyunah Ko, Chanyoung Kim, Seong Jae Hwang, “Fourier Decomposition for Explicit Representation of 3D Point Cloud Attributes”, <i>arXiv Preprint</i> [PDF]</p>												
WORKSHOP PUBLICATIONS	<p>Seung Hyun Lee, Nahyuk Lee, Chanyoung Kim, Wonjeong Ryoo, Jinkyu Kim, Sang Ho Yoon, S. Kim, “Audio-Guided Image Manipulation for Artistic Paintings”, <i>NeurIPSW 2022 - ML for Creativity and Design</i></p>												
HONORS AND AWARDS	<table> <tr> <td>Excellent Academic Paper Award (Fall 2024)</td><td>Yonsei University</td></tr> <tr> <td>LAB Start-up 2022</td><td>Korea University</td></tr> <tr> <td>Korea University π-ville Demo Day 2021</td><td>Korea University</td></tr> <tr> <td>Sejong Scholarship for Outstanding GPA</td><td>Sejong University</td></tr> <tr> <td>Seoul PM Hackathon</td><td>Seoul Metropolitan City</td></tr> <tr> <td>XXIII Pyeongchang Olympic Winter Games</td><td>Republic of Korea Government</td></tr> </table>	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
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TEACHING EXPERIENCES	<p>Yonsei University</p> <ul style="list-style-type: none"> • TA: “Deep Learning Introduction and Applications” (Spring 2024, 2025) • TA: “Computer Vision” (Fall 2023) <p>Samsung Electronics</p> <ul style="list-style-type: none"> • Lecturer: “Introductions to Data Science” (Aug. 2023) 												
SKILLS	<p>Programming</p> <ul style="list-style-type: none"> • 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 (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