Seil Kang

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Research Focus

Deriving impactful insights from Transformers
to deliver tangible improvements across multiple applications.

Education

Yonsei University — Seoul, South Korea
Ph.D. Student, Computer Science — Mar. 2023 – Present
Yonsei University — Seoul, South Korea
B.S. Chemical Engineering — Mar. 2020 – Mar. 2023

Publications

Your Large Vision-Language Model Only Needs A Few Attention Heads For Visual Grounding
CVPR 2025 (Highlight), First Author, [paper]

See What You Are Told: Visual Attention Sink in Large Multimodal Models
ICLR 2025, First Author, [paper]

Complementary branch fusing class and semantic knowledge for robust weakly supervised semantic segmentation
Pattern Recognition, Second Author, [paper]

FALCON: Frequency Adjoint Link with CONtinuous Density Mask for Fast Single Image Dehazing
CVPRW 2025, Second Author, [paper]

Rare Text Semantics Were Always There in Your Diffusion Transformer
Technical Report, First Author, [soon]

Head-to-Token Mechanisms of Image-to-Text Information Flow in Large Vision-Language Models
Technical Report, Second Author, [soon]

WoLF: Wide-scope Large Language Model Framework for CXR Understanding
Technical Report, First Author, [paper]

Experience

Medical Imaging and Computer Vision Lab, Yonsei, College of Computing

Ph.D. Student — Mar. 2023 – Present

- Large Vision-Language Model
- Large Language Model
- Diffusion Transformer

Undergraduate Researcher — Mar. 2022 – Mar. 2023

- Single Haze Removal
- Weakly Supervised Semantic Segmentation

Scholarly Activities

Keynote Lecturer — Aug. 2023 – 2024

- A Deep-Dive into Large Language Models and Transformers @Samsung Electronics
- Introducing Large Language Models @Samsung Electronics

- Advanced Data Analysis and Machine Learning @Samsung Electronics
- Data Analysis and Machine Learning @Samsung Electronics
- Advanced ML/DL Projects for LLMs @S-oil
- Advanced Object Detection with Computer Vision @WeZone

Languages

Programming Languages:	Python, Java, C++, C
Frameworks:	PyTorch, TensorFlow, MCP
Spoken Languages:	Korean, English