Seil Kang

Ph.D. Student in Computer Science

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EDUCATION

Yonsei University · CS · Ph.D. Student — **Mar 2023 – Present**

Yonsei University · Chemical and Biomolecular Engineering · B.S. — **Mar 2020 – Mar 2023**

RESEARCH EXPERIENCES

Stanford University · CS · Visiting Scholar — **Jul 2026 – Present**

Advisor: Azalia Mirhoseini

PUBLICATIONS

Pre-print & In submission

Decoding Millions of Videos on the GPU — **In submission**

Authors: Seil Kang, Jacky Kwok, Woojung Han, Hangoo Kang, Tarun Suresh, Seong Jae Hwang, Azalia Mirhoseini.

ThunderSync: Lossless Acceleration of Agentic Reinforcement Learning — **Pre-print | Oct 2026**

https://arxiv.org/abs/2610.05935

Authors: Seil Kang*, Hangoo Kang*, Tarun Suresh, Youngeun Kim, Shreyas Pimpalgaonkar, Seong Jae Hwang, Azalia Mirhoseini.

Conference

Real-Time Visual Attribution Streaming in Thinking Model — **ICML | Apr 2026**

https://arxiv.org/abs/2604.16587 — Spotlight Paper / Best Paper of SCALE @ ICML

Authors: Seil Kang, Woojung Han, Junhyeok Kim, Jinyeong Kim, Youngeun Kim, Seong Jae Hwang.

Physics in 2-Steps: Locking Motion Priors Before Visual Refinement Erases Them — **ICML | Apr 2026**

https://arxiv.org/abs/2606.06361

Authors: Woojung Han, Seil Kang, Youngjun Jun, Min-Hung Chen, Fu-En Yang, Seong Jae Hwang.

Interpretable Motion-Attentive Maps: Spatio-Temporally Localizing Concepts in Video Diffusion Transformers — **CVPR | Feb 2026**

https://arxiv.org/abs/2603.02919 — Highlight Paper

Authors: Youngjun Jun, Seil Kang, Woojung Han, Seong Jae Hwang.

ViKey: Enhancing Temporal Understanding in Videos via Visual Prompting — **CVPR | Feb 2026**

https://arxiv.org/abs/2603.23186

Authors: Yeonkyung Lee, Dayun Ju, Youngmin Kim, Seil Kang, Seong Jae Hwang.

Rare Text Semantics Were Always There in Your Diffusion Transformer — **NeurIPS | Oct 2025**

https://arxiv.org/abs/2510.03886

Authors: Seil Kang*, Woojung Han*, Dayun Ju, Seong Jae Hwang.

Your Large Vision-Language Model Only Needs A Few Attention Heads for Visual Grounding — **CVPR | Mar 2025**

https://arxiv.org/abs/2503.06287 — Highlight Paper

Authors: Seil Kang, Jinyeong Kim, Junhyeok Kim, Seong Jae Hwang.

See What You Are Told: Visual Attention Sink in Large Multimodal Models — **ICLR | Mar 2025**

https://arxiv.org/abs/2503.03321

Authors: Seil Kang*, Jinyeong Kim*, Junhyeok Kim, Seong Jae Hwang.

Journal

Complementary branch fusing class and semantic knowledge for robust weakly supervised semantic segmentation **Pattern Recognition | Nov 2024**

https://www.sciencedirect.com/science/article/pii/S0031320324006733

Authors: Woojung Han, Seil Kang, Kyobin Choo, Seong Jae Hwang. IF: 7.5.

Workshop

Interpreting Attention Heads for Image-to-Text Information Flow in Large Vision-Language Models **Mech-Interp @ NeurIPS | Oct 2025**

https://arxiv.org/abs/2509.17588 Spotlight Paper

Authors: Jinyeong Kim, Seil Kang, Jiwoo Park, Junhyeok Kim, Seong Jae Hwang.

FALCON: Frequency Adjoint Link with CONtinuous Density Mask for Fast Single Image Dehazing **CVPR 2025 Workshop on Image Restoration and Enhancement | Mar 2025**

https://arxiv.org/abs/2407.00972

Authors: Donghyun Kim, Seil Kang, Seong Jae Hwang.

OPEN-SOURCE CONTRIBUTIONS

Opencode **Feb 2026 – Present**

https://github.com/anomalyco/opencode/pull/8248

Contributed a merged PR to Opencode main branch.

Openclaw **Feb 2026 – Present**

https://github.com/openclaw/openclaw/releases/tag/v2026.2.22

Contributing to Openclaw since v2026.2.22, with ongoing contributions.

SCHOLARLY ACTIVITIES

Invited Speaker · Samsung Electronics and S-oil **Aug 2025 – Present**

Delivered technical lectures on Large Language Models, Transformers, and advanced machine learning to engineering and data science teams.

Reviewer · Academic Conferences **Jan 2025 – Present**

Conference reviewer: (2026) ICLR, CVPR, ICML, ECCV; (2025) ICCV, ICML, AAAI, CVPR.

AWARDS

Best Academic Paper Award · Yonsei University **Dec 2025**

South Korea AI Graduate School Symposium - 2nd Prize · Ministry of Science and ICT (South Korea) **Aug 2025**

SCHOLARSHIPS

Seoul Future Foundation Scholarship · 10M KRW ($7,000 USD) **Nov 2025**

LANGUAGES

Korean (Native), English (Fluent)