

Wooseok Seo

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📍 Seoul, Korea

Research Interests

I am interested in pushing the boundaries of *foundational models* through better **evaluation frameworks** or effective **post-training**. I am currently excited about accurately evaluating & mitigating the hallucinations of LLMs, or improving models to generate faithful responses from expert-level knowledge sources (e.g., Search Agents, RAG, AI4Science, etc.) for practical use. I am also interested in defining, generating, and selecting *good* synthetic data for model generalization.

Education

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| Yonsei University Ph.D. in Artificial Intelligence Advisor: Prof. Youngjae Yu | Seoul, Korea Mar 2025 – Feb 2030 (Exp.) |
| Yonsei University B.S. in Nano Science and Engineering | Seoul, Korea Mar 2020 – Feb 2025 |

Research Experience

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| Microsoft Research Intern @ Copilot Team Mentor: Khanh Nguyen | Redmond, WA (Remote) Mar 2026 - Jun 2026 (Exp.) |
| LG AI Research Research Intern @ EXAONE Lab Mentor: Seokhee Hong | Seoul, Korea Sep 2025 - Feb 2026 |
| Seoul National University, PI LAB Visiting Researcher | Seoul, Korea Sep 2025 - Current |
| MAUM.AI Research Scientist @ WoRV (World model for Robotics and Vehicle control) Team | Seoul, Korea Jan 2024 - May 2024 |
| Yonsei University, MIR Lab Undergraduate Research Intern Advisor: Prof. Youngjae Yu | Seoul, Korea Sep 2023 - Feb 2025 |

Publication

[C]: Conference, [P]: Preprint, [T]: Tech Report, * denotes equal contribution.

[T1] K-EXAONE Technical Report

LG AI Research

TLDR; We present K-EXAONE-236B-A23B, the best reasoning model in Korea. I contribute as a member of the post-training team, specifically working on synthetic data for reasoning and model evaluation.

Technical Report, [Paper](#), [HuggingFace](#)

[C2] Verifying the Verifiers: Unveiling Pitfalls and Potentials in Fact Verifiers

Wooseok Seo*, Seungju Han*, Jaehun Jung, Benjamin Newman, Seungwon Lim, Seungbeen Lee, Ximing Lu, Yejin Choi, Youngjae Yu

TLDR; We systematically detect ambiguous & mislabeled examples in fact-verification benchmarks and introduce Clearfacts and Grayfacts, along with an SOTA 8B fact verifier and insights on building better fact verifiers.

COLM 2025, [Paper](#), [Code](#)

[C1] V.I.P.: Iterative Online Preference Distillation for Efficient Video Diffusion Models

Jisoo Kim, **Wooseok Seo**, Junwan Kim, Seungho Park, Sooyeon Park, Youngjae Yu

TLDR; We integrate DPO and SFT loss for distillation to build an efficient video diffusion model, with an automatic pair curation pipeline and outperform the teacher only with the synthetic data generated from the teacher itself.
ICCV 2025, [Paper](#)

[P1] Layout-and-Retouch: A Dual-stage Framework for Improving Diversity in Personalized Image Generation
Wooseok Seo*, Kangyeol Kim*, Sehyun Nam, Bodam Kim, Suhyeon Jeong, Wonwoo Cho, Jaegul Choo, Youngjae Yu
TLDR; We use a two-stage approach for personalized T2I generation, to first draw the context with step-blended denoising and enhance the context with multi-source attention swapping.
Preprint, [Paper](#)

Academic Services

Reviewer

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| ACL ARR | 2025 |
| COLM | 2025,2026 |

Awards and Honors

Thinking Machines Lab

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| \$5k Research Grant for research on synthetic data | 2025 |
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