

# 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

**Yonsei University** Seoul, Korea  
Ph.D. in Artificial Intelligence *Mar 2025 – Feb 2030 (Exp.)*  
Advisor: Prof. [Youngjae Yu](#)

**Yonsei University** Seoul, Korea  
B.S. in Nano Science and Engineering *Mar 2020 – Feb 2025*

## Research Experience

**Microsoft** Redmond, WA (Remote)  
*Research Intern @ Copilot Team* *Mar 2026 - Jun 2026 (Exp.)*  
Mentor: [Khanh Nguyen](#)

**LG AI Research** Seoul, Korea  
*Research Intern @ EXAONE Lab* *Sep 2025 - Feb 2026*  
Mentor: [Seokhee Hong](#)

**Seoul National University, PI LAB** Seoul, Korea  
*Visiting Researcher* *Sep 2025 - Current*

**MAUM.AI** Seoul, Korea  
*Research Scientist @ WoRV (World model for Robotics and Vehicle control) Team* *Jan 2024 - May 2024*

**Yonsei University, MIR Lab** Seoul, Korea  
*Undergraduate Research Intern* *Sep 2023 - Feb 2025*  
Advisor: Prof. [Youngjae Yu](#)

## Publication

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

[P2] BenchPreS: A Benchmark for Context-Aware Personalized Preference Selectivity of Persistent-Memory LLMs  
Sangyeon Yoon, Sunkyoung Kim, Hyesoo Hong, Wonje Jeung, Yongil Kim, **Wooseok Seo**, Heuiyeen Yeen, Albert No  
**TLDR**: We introduce BenchPreS to evaluate whether LLMs appropriately apply or suppress memory-based user preferences, showing that even frontier models systematically over-apply personalization.  
*Under Review, Paper*

[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

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### Reviewer

ACL ARR

2025

COLM

2025,2026

## Awards and Honors

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### Thinking Machines Lab

*\$5k Research Grant for research on synthetic data*

2025