

# Seoha Lim

Curriculum Vitae



## Education

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### Ph.D. in Artificial Intelligence

Sep 2023 – Present

Yonsei University (Seoul, Korea)

– Advised by Prof. Sung-Bae Cho

### B.A. in Mathematics and Chinese Language

Mar 2018 – Aug 2023

Chung-Ang University (Seoul, Korea)

## Publications

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2. Jieun Kim, **Seoha Lim**, Yeonghae Choi, Sung-Bae Cho

Injecting Context via Situation Working Memory for Logical Reasoning with LLMs

*In Proceeding of ACL, 2026*

1. **Seoha Lim**\*, Jinmyeong Kim\*, Jieun Kim, Sung-Bae Cho

Hierarchical Prototype Learning for Semantic Segmentation

*In Proceeding of ICLR, 2026*

## Industrial Experiments

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LG Electronics Inc. (Seoul, Korea)

Mar 2025 – Aug 2025

– Researcher (Industrial-academic collaboration)

## Research Experiments

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### Soft Computing Lab @ Yonsei Univ.

#### Logical Reasoning with LLMs

– Investigated an explicit Situation Working Memory mechanism to address global context/state maintenance issues in multi-step logical reasoning with LLMs.

– Structured text into core situation and maintained/updated them as memory to guide consistent reasoning.

#### Image Segmentation

– Studied a prototype-based representation learning approach that explicitly reflects object–part hierarchies to better capture fine-grained semantics in semantic segmentation.

– Combined hierarchical contrastive learning with cross-level alignment constraints to jointly enhance intra-level discriminability and inter-level semantic consistency.

## Academic Activities

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TA @ Artificial Intelligence [CAS3208], Yonsei Univ.

Mar 2026

TA @ Artificial Intelligence [GCB6002], Yonsei Univ.

Mar 2026

## **Skills**

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Python, PyTorch

## **Spoken Languages**

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*Native* – Korean

*Full Professional Working Proficiency* – English, Chinese