

Seongwoo Lim

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Education

- Aug 2015 – **Combined M.S. & Ph.D. in Computer Science & Engineering**, *Ulsan National Institute of Science and Technology*
Aug 2025
Mar 2012 – **B.S. in Computer Science & Engineering (Major), Mathematical Sciences (Minor)**, *Ulsan National Institute of Science and Technology*
Aug 2015

Publications

- May 2024 **Seongwoo Lim**, Won Jo, Joohyung Lee, and Jaesik Choi, "Pathwise Explanation of ReLU Neural Networks", *International Conference on Artificial Intelligence and Statistics (AISTATS)*.
Nov 2017 **Seongwoo Lim**, Soonjae Kwon, Sehyun Lee, and Jaesik Choi, "UNIST SAIL System for TAC 2017 Cold Start Slot Filling", *Text Analysis Conference (TAC)*.
Nov 2016 **Seongwoo Lim**, Jiyeon Han, Kyowoon Lee, and Jaesik Choi, "SAIL (UNIST) team participation in KBP 2016 cold start slot filling", *Text Analysis Conference (TAC)*.
Sep 2016 **Seongwoo Lim**, Jiyeon Han, Kyowoon Lee, and Jaesik Choi, "Automatic Relation Extraction for Knowledge Base Population," *Commun. of KIISE*.

Competition

- 2017 **TAC-KBP 2017** – Cold start KB/SF slot-filling competition (Ranked 4/12)
2016 **TAC-KBP 2016** – Cold start KB/SF slot-filling competition (Ranked 11/17)

Teaching Experience

- Fall 2019 **Samsung DS-KAIST AI Expert (TA)**, CNNs, Bayesian Inference, Variational Inference, Graphical Models.
Spring 2017 **Principles of Programming Languages (TA)**, SML, Racket, Python, Probabilistic Programming Languages.
Fall 2015 **Machine Learning (TA)**

Research Interests

- SRL** Efficient inference using lifted inference in statistical relational learning, and designing projectivity-based models that can be applied even when the domain size changes.
NeSy Integration of neural networks and symbolic models.
XAI Explaining the decision-making process of models based on input attribution.