

JAEMIN YOO

PhD Candidate @ Seoul National University

Email: jaeminyoo@snu.ac.kr ◇ **Web:** jaeminyoo.github.io

EDUCATION

Seoul National University

Mar. 2016 - Present

PhD Candidate, Computer Science and Engineering

Advisor: U Kang

Seoul National University

Mar. 2012 - Feb. 2016

Bachelor of Science, Computer Science and Engineering

PUBLICATIONS

- [c10] [Jaemin Yoo](#)*, Junghun Kim*, Hoyoung Yoon*, Geonsoo Kim, Changwon Jang, U Kang, “Accurate Graph-Based PU Learning without Class Prior”, ICDM 2021 (regular paper; acceptance rate $98/980 = 10.0\%$; *equal contribution)
- [c9] [Jaemin Yoo](#), Yejun Soun, Yong-chan Park, U Kang, “Accurate Multivariate Stock Movement Prediction via Data-Axis Transformer with Multi-Level Contexts”, KDD 2021 (acceptance rate $238/1541 = 15.4\%$)
- [c8] [Jaemin Yoo](#), Lee Sael, “Gaussian Soft Decision Trees for Interpretable Feature-Based Classification”, PAKDD 2021 (acceptance rate $157/768 = 20.4\%$)
- [c7] [Jaemin Yoo](#), U Kang, “Attention-Based Autoregression for Accurate and Efficient Multivariate Time Series Forecasting”, SDM 2021 (acceptance rate $85/400 = 21.3\%$)
- [c6] [Jaemin Yoo](#), U Kang, Mauro Scanagatta, Giorgio Corani, Marco Zaffalon, “Sampling Subgraphs with Guaranteed Treewidth for Accurate and Efficient Graphical Inference”, WSDM 2020 (acceptance rate $91/615 = 14.8\%$)
- [c5] [Jaemin Yoo](#), Minyong Cho, Taebum Kim, U Kang, “Knowledge Extraction with No Observable Data”, NeurIPS 2019 (acceptance rate $1428/6743 = 21.2\%$)
- [c4] [Jaemin Yoo](#), Lee Sael, “EDiT: Interpreting Ensemble Models via Compact Soft Decision Trees”, ICDM 2019 (acceptance rate $194/1046 = 18.5\%$)
- [c3] [Jaemin Yoo](#), Hyunsik Jeon, U Kang, “Belief Propagation Network for Hard Inductive Semi-supervised Learning”, IJCAI 2019 (acceptance rate $850/4752 = 17.9\%$)
- [c2] Saehan Jo, [Jaemin Yoo](#), U Kang, “Fast and Scalable Distributed Loopy Belief Propagation on Real-World Graphs”, WSDM 2018 (acceptance rate $83/514 = 16.3\%$)
- [j1] Mauro Scanagatta, Giorgio Corani, Marco Zaffalon, [Jaemin Yoo](#), U Kang, “Efficient Learning of Bounded-Treewidth Bayesian Networks from Complete and Incomplete Data Sets”, International Journal of Approximate Reasoning, vol. 95, pp. 152–166, 2018
- [c1] [Jaemin Yoo](#), Saehan Jo, U Kang, “Supervised Belief Propagation: Scalable Supervised Inference on Attributed Networks”, ICDM 2017 (regular paper; acceptance rate $72/778 = 9.3\%$)

AWARDS & SCHOLARSHIPS

SNU BK21 Outstanding Graduate Student Award *Jul. 2021*
Best Poster Award at AIIS Retreat 2021 *Apr. 2021*
SIAM Student Travel Awards (SDM 2021) *Apr. 2021*

SNU BK21 Star Researcher Award	<i>Feb. 2021</i>
Qualcomm Innovation Fellowship Korea	<i>Dec. 2020</i>
Yulchon AI Star Award	<i>Sep. 2020</i>
Google PhD Fellowship Program (Machine Learning)	<i>Sep. 2019</i>
Samsung HumanTech Paper Award (Honorable Mention)	<i>Feb. 2019</i>
SNU BK21 Scholarship	<i>Mar. 2019 - Aug. 2020</i>
Google Conference Scholarships (ICDM 2017)	<i>Nov. 2017</i>
Lecture & Research Scholarship by SNU	<i>Mar. 2016 - Feb. 2019</i>
Paper Award in Scientific and Technical Writing by SNU	<i>Jun. 2014</i>
Undergraduate Student Paper Award at KSC 2014	<i>Jun. 2014</i>
National Scholarship For Science and Engineering by KOSAF	<i>Mar. 2013 - Jun. 2015</i>

DEVELOPMENT PROJECTS

Graph-Based Gold Farming Group Detection System (NCSoft)	<i>Sep. 2020 - Feb. 2021</i>
Deep Learning-Based Recommender System (Wemakeprice)	<i>Feb. 2019 - Dec. 2019</i>
Statistical Learning and Inference Method with PGMs (IDSIA)	<i>Jan. 2016 - Dec. 2018</i>
Feature Selection Method for RNN Recommender Systems (SK Telecom)	<i>Mar. 2018 - Nov. 2018</i>
Temporal Stock Price Prediction System (eMoney)	<i>Aug. 2017 - Feb. 2018</i>
Video Recommender System with Multimodal Data (SK Broadband)	<i>Nov. 2016 - Jun. 2017</i>
Distributed Machine Learning Library on Apache Spark (SK Telecom)	<i>Mar. 2016 - Jan. 2017</i>

INVITED TALKS

SNU AI Summer School 2021	<i>Aug. 2021</i>
AIIS (SNU AI Institute) Retreat 2021	<i>Apr. 2021</i>
NAVER Online Tech Talk	<i>Dec. 2020</i>
SNU AI Summer School 2020	<i>Aug. 2020</i>
Seoul National University Hospital	<i>Jul. 2020</i>
AIIS (SNU AI Institute) Summer Retreat 2020	<i>Jun. 2020</i>
Kakao Corporation	<i>Jan. 2020</i>
KSC (Korea Software Congress) 2019	<i>Dec. 2019</i>
SNU - Samsung Research Workshop	<i>Oct. 2019</i>
SCAI (SNU Center for AI) Summer Retreat	<i>Jul. 2019</i>
Introduction to Data Mining @ SNU CSE	<i>Jul. 2019</i>
Samsung Electronics	<i>Mar. 2019</i>
IDSIA (Istituto Dalle Molle di Studi sull'Intelligenza Artificiale)	<i>Jul. 2018</i>
KSC (Korea Software Congress) 2017	<i>Dec. 2017</i>
Samsung AI Forum 2017	<i>Oct. 2017</i>
SNU - Samsung Software Center Open Lab Program	<i>Aug. 2017</i>

PROFESIONAL SERVICES

PC Member

- AAAI, BigComp *2021 - 2022*

- KDD 2021

External Reviewer

- ICLR 2021
- NeurIPS 2020 - 2021
- WWW 2018 - 2021
- KDD 2018 - 2020
- BigComp 2017 - 2018, 2020
- WSDM 2019
- CIKM 2018 - 2019
- ICDM, SAC 2018

TEACHING EXPERIENCE

Teaching Assistant (Seoul National University)

- Large Data Analysis (M1522.000900, 002) Fall 2017
- Introduction to Data Mining (M1522.001400-001) Spring 2017
- Data Structures (M1522.001600-002) Fall 2016

Teaching Assistant (Other Organizations)

- Deep Learning, Samsung Electronics Apr. 2018 - Feb. 2019
- Deep Learning, SNU Fourth Industrial Revolution Academy Oct. 2017 - Dec. 2018
- Distributed Computing, SNU Big Data Academy Feb. 2017 - Dec. 2017
- Distributed Computing, SNU Big Camp Aug. 2016 - Feb. 2017

PATENTS

1. Taebum Kim, Jaemin Yoo, U Kang, “Method for Compressing Deep Learning Neural Networks and Apparatus for Performing the Same”, KR-Registration No. 10-2199285 (2020)
2. Jaemin Yoo, U Kang, “Method for Extracting Knowledge from Artificial Neural Network and Apparatus for Performing the Same”, KR-Application No. 10-2019-0174361 (2019)
3. Jaemin Yoo, U Kang, “Apparatus and Method for Classifying Nodes”, KR-Registration No. 10-1924832 (2018)