

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

- [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

Best Poster Award at AIIS Retreat 2021	<i>Apr. 2021</i>
SIAM Student Travel Awards (SDM 2021)	<i>Apr. 2021</i>
BK21 Plus Star Researcher Award	<i>Feb. 2021</i>
Qualcomm Innovation Fellowship Korea	<i>Dec. 2020</i>
Yulchon AI Scholarships (AI Star)	<i>Sep. 2020</i>
Google PhD Fellowship Program (Machine Learning)	<i>Sep. 2019</i>

Samsung HumanTech Paper Award (Honorable Mention)	Feb. 2019
BK21 Plus Scholarship	Mar. 2019 - Aug. 2020
Google Conference Scholarships (ICDM 2017)	Nov. 2017
Lecture & Research Scholarship by SNU	Mar. 2016 - Feb. 2019
Paper Award in Scientific and Technical Writing by SNU	Jun. 2014
Undergraduate Student Paper Award at KSC 2014	Jun. 2014
National Scholarship For Science and Engineering by KOSAF	Mar. 2013 - Jun. 2015

DEVELOPMENT PROJECTS

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

INVITED TALKS

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

PROFESIONAL SERVICES

Reviewer (AAAI)	2022
Reviewer (BigComp, AAAI, WWW, ICLR, KDD, NeurIPS)	2021
Reviewer (BigComp, WWW, KDD, NeurIPS)	2020
Reviewer (WSDM, WWW, KDD, CIKM)	2019
Reviewer (BigComp, WSDM, SAC, WWW, KDD, CIKM, ICDM)	2018
Reviewer (BigComp, CIKM)	2017

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)