JAEMIN YOO

PhD Candidate @ Seoul National University
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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; top 98/990 = 9.9%; *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; top 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	*Feb. 2021*
Qualcomm Innovation Fellowship Korea	*Dec. 2020*
Yulchon AI Star Award	*Sep. 2020*
SNU BK21 Scholarship	*Mar. 2019 - Aug. 2020*
Google PhD Fellowship Program (Machine Learning)	*Sep. 2019*
Samsung HumanTech Paper Award (Honorable Mention)	*Feb. 2019*
Lecture & Research Scholarship by SNU	*Mar. 2016 - Feb. 2019*
Google Conference Scholarships (ICDM 2017)	*Nov. 2017*
National Scholarship For Science and Engineering by KOSAF	*Mar. 2013 - Jun. 2015*
Paper Award in Scientific and Technical Writing by SNU	*Jun. 2014*
Undergraduate Student Paper Award at KSC 2014	*Jun. 2014*

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

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

PROFESIONAL SERVICES

PC Member

• SDM, AAAI, BigComp	*2022*

- KDD, AAAI, BigComp *2021*

External Reviewer

- WWW, NeurIPS, ICLR *2021*
- WWW, KDD, NeurIPS, BigComp *2020*
- WWW, KDD, WSDM, CIKM *2019*
- WWW, KDD, ICDM, CIKM, SAC, BigComp *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, <u>Jaemin Yoo</u>, U Kang, "Method for Compressing Deep Learning Neural Networks and Apparatus for Performing the Same", KR-Registration No. 10-2199285 (2020)

2. <u>Jaemin Yoo</u>, U Kang, "Method for Extracting Knowledge from Artificial Neural Network and Apparatus for Performing the Same", KR-Application No. 10-2019-0174361 (2019)

3. <u>Jaemin Yoo</u>, U Kang, "Apparatus and Method for Classifying Nodes", KR-Registration No. 10-1924832 (2018)