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
Advisor: U Kang

PUBLICATIONS

[c9] <u>Jaemin Yoo</u>, 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] <u>Jaemin Yoo</u>, Lee Sael, "Gaussian Soft Decision Trees for Interpretable Feature-Based Classification", PAKDD 2021 (acceptance rate 157/768 = 20.4%)

[c7] <u>Jaemin Yoo</u>, U Kang, "Attention-Based Autoregression for Accurate and Efficient Multivariate Time Series Forecasting", SDM 2021 (acceptance rate 85/400 = 21.3%)

[c6] <u>Jaemin Yoo</u>, 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] <u>Jaemin Yoo</u>, Minyong Cho, Taebum Kim, U Kang, "Knowledge Extraction with No Observable Data", NeurIPS 2019 (acceptance rate 1428/6743 = 21.2%)

[c4] <u>Jaemin Yoo</u>, Lee Sael, "EDiT: Interpreting Ensemble Models via Compact Soft Decision Trees", ICDM 2019 (acceptance rate 194/1046 = 18.5%)

[c3] <u>Jaemin Yoo</u>, Hyunsik Jeon, U Kang, "Belief Propagation Network for Hard Inductive Semi-supervised Learning", IJCAI 2019 (acceptance rate 850/4752 = 17.9%)

[c2] Saehan Jo, <u>Jaemin Yoo</u>, 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, <u>Jaemin Yoo</u>, 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] <u>Jaemin Yoo</u>, 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 . . . . *Apr. 2021*
SIAM Student Travel Awards (SDM 2021) . . . . *Apr. 2021*
BK21 Plus Star Researcher Award . . . . *Feb. 2021*
Qualcomm Innovation Fellowship Korea . . . . *Dec. 2020*
Yulchon AI Research Fellowship (AI Star) . . . . *Sep. 2020*

Google PhD Fellowship Program (Machine Learning) . . . . *Sep. 2019*

HumanTech Paper Award (Honorable Mention) . . . . *Feb. 2019*

Full Scholarship by Seoul National University . . . . *Mar. 2016 - Feb. 2019*

Google Conference and Travel Scholarship . . . . *Nov. 2017*

National Science and Technology Scholarship by KOSAF . . . . *Mar. 2013 - Jun. 2015*

Paper Award in Scientific and Technical Writing . . . . *Jun. 2014*

Undergraduate Student Paper Award by KISSE . . . . *Jun. 2014*

PARTICIPATED 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 based on PGM (IDSIA) . . . . . *Jan. 2016 - Dec. 2018*

Feature Selection Method for RNN Recommender System (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

AIIS (SNU AI Institute) Retreat 2021 . . . . *Apr. 2021*

NAVER Online Tech Talk . . . . *Dec. 2020*

AIIS (SNU AI Institute) 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 (BigComp, AAAI, WWW, ICLR, KDD) *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, <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)