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

[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 . . . . *Feb. 2021*

Qualcomm Innovation Fellowship Korea . . . . *Dec. 2020*

Yulchon AI Star Award . . . . *Sep. 2020*

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

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

SNU BK21 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. 2021*

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

PC Member

- AAAI, BigComp . . . . *2021 - 2022*
- KDD *2021*

External Reviewer

- ICLR *2021*

- WWW . . . . *2018 - 2021*
- KDD . . . . *2018 - 2020*
- BigComp . . . . *2017 - 2018, 2020*
- NeurIPS . . . . *2020 - 2021*
- 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, <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)