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] <u>Jaemin Yoo</u>*, Junghun Kim*, Hoyoung Yoon*, Geonsoo Kim, Changwon Jang, and U Kang. Accurate Graph-Based PU Learning without Class Prior. IEEE International Conference on Data Mining (ICDM) 2021 (regular paper; top 98/990 = 9.9%; *equal contribution)
- [c9] <u>Jaemin Yoo</u>, Yejun Soun, Yong-chan Park, and U Kang. Accurate Multivariate Stock Movement Prediction via Data-Axis Transformer with Multi-Level Contexts. ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD) 2021 (acceptance rate 238/1541 = 15.4%)
- [c8] <u>Jaemin Yoo</u> and Lee Sael. Gaussian Soft Decision Trees for Interpretable Feature-Based Classification. Pacific-Asia Conference on Knowledge Discovery and Data Mining (PAKDD) 2021 (acceptance rate 157/768 = 20.4%)
- [c7] Jaemin Yoo and U Kang. Attention-Based Autoregression for Accurate and Efficient Multivariate Time Series Forecasting. SIAM International Conference on Data Mining (SDM) 2021 (acceptance rate 85/400 = 21.3%)
- [c6] <u>Jaemin Yoo</u>, U Kang, Mauro Scanagatta, Giorgio Corani, and Marco Zaffalon. Sampling Subgraphs with Guaranteed Treewidth for Accurate and Efficient Graphical Inference. ACM International Conference on Web Search and Data Mining (WSDM) 2020 (acceptance rate 91/615 = 14.8%)
- [c5] <u>Jaemin Yoo</u>, Minyong Cho, Taebum Kim, and U Kang. Knowledge Extraction with No Observable Data. Conference on Neural Information Processing Systems (NeurIPS) 2019 (acceptance rate 1428/6743 = 21.2%)
- [c4] <u>Jaemin Yoo</u> and Lee Sael. *EDiT: Interpreting Ensemble Models via Compact Soft Decision Trees.* IEEE International Conference on Data Mining (ICDM) 2019 (acceptance rate 194/1046 = 18.5%)
- [c3] <u>Jaemin Yoo</u>, Hyunsik Jeon, and U Kang. Belief Propagation Network for Hard Inductive Semi-supervised Learning. International Joint Conference on Artificial Intelligence (IJCAI) 2019 (acceptance rate 850/4752 = 17.9%)
- [c2] Saehan Jo, <u>Jaemin Yoo</u>, and U Kang. Fast and Scalable Distributed Loopy Belief Propagation on Real-World Graphs. ACM International Conference on Web Search and Data Mining (WSDM) 2018 (acceptance rate 83/514 = 16.3%)

- [j1] Mauro Scanagatta, Giorgio Corani, Marco Zaffalon, <u>Jaemin Yoo</u>, and 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, and U Kang. Supervised Belief Propagation: Scalable Supervised Inference on Attributed Networks. IEEE International Conference on Data Mining (ICDM) 2017 (regular paper; top 72/778 = 9.3%)

AWARDS & SCHOLARSHIPS

AWARDS & SCHOLARSHIPS
SNU BK21 Outstanding Graduate Student Award
Best Poster Award at AIIS Retreat 2021
SIAM Student Travel Awards (SDM 2021)
SNU BK21 Star Researcher Award
Qualcomm Innovation Fellowship Korea
Yulchon AI Star Award
Google PhD Fellowship Program (Machine Learning)
Samsung HumanTech Paper Award (Honorable Mention)
Google Conference Scholarships (ICDM 2017)
Paper Award in Scientific and Technical Writing by SNU Jun. 2014
Undergraduate Student Paper Award at KSC 2014
SNU BK21 Scholarship
Lecture & Research Scholarship by SNU
National Scholarship For Science and Engineering by KOSAF
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)
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
SNU AI Summer School 2021
SNU AI Institute (AIIS) Retreat 2021
NAVER Online Tech Talk
SNU AI Summer School 2020
SNU Hospital
SNU AI Institute (AIIS) Retreat 2020
Kakao Enterprise
Korea Software Congress 2019

SNU - Samsung Research Workshop	9
SNU Center for AI (SCAI) Retreat	19
Introduction to Data Mining @ SNU CSE	19
Samsung Electronics	19
Istituto Dalle Molle di Studi sull'Intelligenza Artificiale (IDSIA) Jul. 201	18
Korea Software Congress 2017	
Samsung AI Forum 2017	!7
PROFESIONAL SERVICES	
PC Member	
 SDM (SIAM International Conference on Data Mining)	
 BigComp (IEEE International Conference on Big Data and Smart Computing) 2021 - 202 KDD (ACM SIGKDD Intl. Conf. on Knowledge Discovery and Data Mining) 202 	
Journal Reviewer	
• Pattern Recognition	?1
TEACHING EXPERIENCE	
Teaching Assistant (Seoul National University)	
• Large Data Analysis (M1522.000900, 002)	17
• Introduction to Data Mining (M1522.001400_001)	!7
\bullet Data Structures (M1522.001600_002)	16
Teaching Assistant (Other Organizations)	
• Deep Learning, Samsung Electronics	19
• Deep Learning, SNU Fourth Industrial Revolution Academy Oct. 2017 - Dec. 201	18
• Distributed Computing, SNU Big Data Academy Feb. 2017 - Dec. 201	
• Distributed Computing, SNU Big Camp	
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)	_