

# JAEMIN YOO

PhD Candidate @ Seoul National University

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## EDUCATION

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**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

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- [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

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

## DEVELOPMENT PROJECTS

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

## INVITED TALKS

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

## PROFESIONAL SERVICES

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### PC Member

- SDM . . . . . *2022*

- AACL, BigComp . . . . . 2021 - 2022
- KDD . . . . . 2021

#### External Reviewer

- ICLR . . . . . 2021
- NeurIPS . . . . . 2020 - 2021
- WWW . . . . . 2018 - 2021
- KDD . . . . . 2018 - 2020
- BigComp . . . . . 2017 - 2018, 2020
- WSDM . . . . . 2019
- CIKM . . . . . 2018 - 2019
- ICDM, SAC . . . . . 2018

### TEACHING EXPERIENCE

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#### 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

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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)