Kanghoon Yoon

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Education

Korea Advanced Institute of Science & Technology (KAIST)   *Daejeon, South Korea*
Ph.D. in Industrial & Systems Engineering   *09. 2021 – 02. 2025*
- Advisor: Prof. Chanyoung Park

Korea Advanced Institute of Science & Technology (KAIST)   *Daejeon, South Korea*
M.S. in Industrial & Systems Engineering   *09. 2019 – 08. 2021*
- Advisor: Prof. Jinkyoo Park
- Dissertation: Learning Multivariate Hawkes Process using Graph Recurrent Neural Network.

Hanyang University   *Seoul, South Korea*
B.S. in Mathematics   *03. 2013 – 02. 2018*
- Scholarship: Hanyang Brain Award (2017 Fall, 2018 Spring).

Project

Electronics and Telecommunications Research Institute (ETRI)   *Daejeon, South Korea*
Project researcher for visual intelligence memorization technology development.   *09. 2021 — 12. 2023*
- Developed a deep-learning-based scene understanding algorithm that alleviates the biased prediction problem, and published the paper "Unbiased Heterogeneous Scene Graph Generation via Relation-aware Message Passing Neural Network" in AAAI-23.

Shinhan Card   *Seoul, South Korea*
Project researcher for Personalized User and Store Recommendation System Development.   *09. 2020 — 03. 2021*
- Developed a deep-learning-based scalable recommendation system for personalized users and stores.

Shinhan Card   *Seoul, South Korea*
Project researcher for Personalized User Analysis using machine learning models.   *12. 2019 — 02. 2020*
- Developed a personalized user analysis algorithm by clustering users based on latent representations.

Publications

CONFERENCES

Similarity Preserving Adversarial Contrastive Learning.   *KDD'23*
Yeonjun In*, Kanghoon Yoon*. Chanyoung Park

Shift-Robust Molecular Relational Learning with Causal Substructure.   *KDD'23*
Namkyeong Lee, Kanghoon Yoon. Gyoung S. Na, Sein Kim, Chanyoung Park

Learning Multivariate Hawkes Process via Graph Recurrent Neural Network.   *KDD'23, ADS*
Kanghoon Yoon*. Youngjun Im*. Jingyu Choi, Taehwan Jeong, Jinkyoo Park.

Unbiased Heterogeneous Scene Graph Generation with Relation-aware Message Passing Neural Network.   *AAAI, 2023*
Kanghoon Yoon*. Kibum Kim*. Jinyoung Moon. Chanyoung Park.

LTE4G: Long-Tail Experts for Graph Neural Networks.   *CIKM, 2022*
Sukwon Yun, Kibum Ki, Kanghoon Yoon, Chanyoung Park

Invited Talks

Heterogeneous Scene Graph Generation   *Jeju, South Korea*
Korea Computer Congress   *06. 2023*

Awards

Excellence Award in Poster Competition   KAIST ISysE, 2022
Hanyang Brain Scholarship   Hanyang University, 2017-2018

Teaching (industrial)