Kanghoon Yoon

✉ ykhoon08@kaist.ac.kr | 🏠 kanghoonyoon.github.io | github.com/KanghoonYoon | linkedin.com/in/yoon-kanghoon-344915217 | 🎓 Kanghoon Yoon

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

LLM4SGG: Large Language Model for Weakly Supervised Scene Graph Generation.   *CVPR 2024*

Kibum Kim, Kanghoon Yoon, Jaehyeong Jeon, Yeonjun In, Jinyoung Moon, Donghyun Kim, Chanyoung Park.

Self-guided Robust Graph Structure Refinement.   *WWW'24 (Oral)*

Yeonjun In, Kanghoon Yoon, Kibum Kim, Kijung Shin, Chanyoung Park.

Adaptive Self-training Framework for Fine-grained Scene Graph Generation.   *ICLR 2024*

Kibum Kim*, Kanghoon Yoon*, Yeonjun In, Jinyoung Moon, Donghyun Kim, Chanyoung Park.

Class Label-aware Graph Anomaly Detection.   *CIKM'23 (Short)*

Junghoon Kim, Yeonjun In, Kanghoon Yoon, Junmo Lee, Chanyoung Park.

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

Robust Graph Contrastive Learning   *Busan, South Korea*

Korea Software Congress   *12. 2023*

 Heterogeneous Scene Graph Generation   *Jeju, South Korea*

Korea Computer Congress   *06. 2023*

Awards

Excellence Award in Poster Competition (2022, 2023)   KAIST ISysE, 2022-2023

Hanyang Brain Scholarship   Hanyang University, 2017-2018

Services

Reviewer of International Conferences

AAAI-24, ACM KDD'24   *2024*

 Semi-supervised Classification for AI factory.   *Seoul, South Korea*

 LG Academy Teaching   *2019, 2020, 2021*