

Yeonjun In

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RESEARCH INTEREST

Mitigating Data-centric Issues in AI Systems

- Data noise [W1, S1] / Adversarial attack [C2, C5, S2] / Anomaly [C3]
- Distribution shift / Continual Learning [C6]
- Long-tailed distribution [C4, S4] / Weak supervision [C1, C7, S3]

EDUCATION

KAIST (Korea Advanced Institute of Science and Technology)

Sep 2023 – Present

- Ph.D. in Industrial and Systems Engineering
 - Research Interest: Mitigating Data-centric Issues in AI Systems
 - Advisor: [Prof. Chanyoung Park](#)

KAIST (Korea Advanced Institute of Science and Technology)

Sep 2021 – Aug 2023

- M.S. in Industrial and Systems Engineering
 - Research Interest: Robust/Reliable Graph Neural Network
 - Advisor: [Prof. Chanyoung Park](#)

Kyunghee University

Mar 2014 – Feb 2021

- B.S. in Environmental Engineering
 - Double Major: Industrial Engineering

WORK EXPERIENCE

Adobe Inc., San Jose, CA, USA

Apr 2024 – Jun 2024

- *Research Scientist Intern*, Adobe Research
 - Mentor: [Dr. Sungchul Kim](#)

LG CNS, Seoul, Korea

Mar 2021 – Apr 2021

- *AI Researcher*, AI Tech Lab

Market Kurly, Seoul, Korea

Aug 2019 – Feb 2020

- *Data Analyst Intern*, Customer Initiative Team

PUBLICATIONS († : EQUAL CONT.)

PREPRINT

- [P1] **SIMPLOT: Enhancing Chart Question Answering by Distilling Essentials**
Wonjoong Kim[†], Sangwu Park[†], **Yeonjun In**, Seokwon Han, Chanyoung Park

IN SUBMISSION

- [S4] **ReTAG: Retrieval-Augmented Scene Graph Generation via Multi-Prototype Learning**
Kanghoon Yoon, Kibum Kim, Jaehyeong Jeon, **Yeonjun In**, Donghyun Kim, Chanyoung Park
The European Conference on Computer Vision (ECCV 2024)
- [S3] **Weakly Supervised Video Scene Graph Generation with Natural Language Supervision**
Kibum Kim, Kanghoon Yoon, **Yeonjun In**, Jaehyeong Jeon, Jinyoung Moon, Donghyun Kim, Chanyoung Park
The European Conference on Computer Vision (ECCV 2024)
- [S2] **Debiased Graph Poisoning Attack via Contrastive Surrogate Objective**
Kanghoon Yoon, **Yeonjun In**, Namkyeong Lee, Kibum Kim, Chanyoung Park
ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2024)
- [S1] **Noise Robust Graph Learning under Feature-Dependent Graph-Noise**
Yeonjun In, Kanghoon Yoon, Sukwon Yun, Kibum Kim, Sungchul Kim, Chanyoung Park
ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD 2024)

CONFERENCES

- [C7] **Weakly Supervised Fine-grained Scene Graph Generation via Large Language Model**
Kibum Kim, Kanghoon Yoon, Jaehyeong Jeon, **Yeonjun In**, Jinyoung Moon, Donghyun Kim, Chanyoung Park
IEEE / CVF Computer Vision and Pattern Recognition Conference (CVPR 2024)

- [C6] **DSLR: Diversity Enhancement and Structure Learning for Rehearsal-based Graph Continual Learning**
Seungyoon Choi[†], Wonjoong Kim[†], Sungwon Kim, **Yeonjun In**, Sein Kim, Chanyoung Park
International World Wide Web Conference (**WWW 2024 (Oral)**)
- [C5] **Self-Guided Robust Graph Structure Refinement**
Yeonjun In, Kanghoon Yoon, Kibum Kim, Kijung Shin, Chanyoung Park
International World Wide Web Conference (**WWW 2024 (Oral)**)
- [C4] **Adaptive Self-training Framework for Fine-grained Scene Graph Generation**
Kibum Kim[†], Kanghoon Yoon[†], **Yeonjun In**, Jinyoung Moon, Donghyun Kim, Chanyoung Park
International Conference on Learning Representations (**ICLR 2024**)
- [C3] **Class Label-aware Graph Anomaly Detection**
Junghoon Kim, **Yeonjun In**, Kanghoon Yoon, Junmo Lee, Chanyoung Park
ACM International Conference on Information and Knowledge Management (**CIKM 2023 Short Paper**)
- [C2] **Similarity Preserving Adversarial Graph Contrastive Learning**
Yeonjun In[†], Kanghoon Yoon[†], Chanyoung Park
ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (**KDD 2023**)
- [C1] **GraFN: Semi-Supervised Node Classification on Graph with Few Labels via Non-Parametric Distribution Assignment**
Junseok Lee, Yunhak Oh, **Yeonjun In**, Namkyeong Lee, Dongmin Hyun, Chanyoung Park
ACM SIGIR Conference on Research and Development in Information Retrieval (**SIGIR 2022 Short Paper**)

JOURNALS

- [J1] **Simple Averaging of Direct and Recursive Forecasts via Partial Pooling using Machine Learning**
Yeonjun In, Jae-Yoon Jung
International Journal of Forecasting (2022) (IF. 7.022)
The first place in "M5 Forecasting - Accuracy" at Kaggle

WORKSHOPS

- [W1] Noise Robust Graph Learning under Feature-Dependent Graph-Noise
Yeonjun In, Kanghoon Yoon, Sukwon Yun, Kibum Kim, Sungchul Kim, Chanyoung Park
WWW Workshop on Data-Centric AI (**DCAI 2024 (Oral)**)

PROJECTS

- Multi-modal Mathematical Reasoning** Mar 2023 – Present
 - Collaboration with Electronics and Telecommunications Research Institute (ETRI)
- Product Category Expansion and Prediction** Mar 2022 – Aug 2022
 - Collaboration with Shinsegae
- Data Science for COVID-19 (DS4C)** Jan 2020 – Dec 2020
 - Created the world's 3rd most impactful COVID-19 Dataset (Ranked 3rd on Kaggle).
 - Also, analyzed and visualized the data using various data mining or visualization techniques.

AWARDS & SCHOLARSHIPS

- Poster Competition Excellence Award, KAIST** 2023
 - Awarded at Industrial/Social Problem Solving Session held by Department of ISysE.
- Competition Master, Kaggle** 2020
 - Highest ranked 27 out of 200k users.
- Mechanisms of Action (MoA) Prediction, Kaggle** 2020
 - Ranked 33 out of 4373 teams (Top 0.7% **Silver medal**)
- M5 Forecasting - Accuracy, Kaggle** 2020
 - Ranked 1 out of 5558 teams (Top 0.02% **Solo gold medal**)
- ASHRAE: Great Energy Predictor III, Kaggle** 2019
 - Ranked 121 out of 3614 teams (Top 3% **Silver medal**)

Dean's List

Spring 2019

- Kyunghee University

**TEACHING
EXPERIENCE****Teaching Assistant**

- Introduction to Deep Learning, *KAIST GSDS Micro degree* Fall 2023
- Statistical Machine Learning, *KAIST IE343* Spring 2023
- Introduction to Deep Learning, *Hankook Tire* 2022, 2023
- Machine Learning for Knowledge Service Engineering, *KAIST KSE527* Spring 2022
- Information Technology for Industrial Engineering, *KAIST IE261* Fall 2021

**PROFESSIONAL
SERVICES****Conference Reviews**

- ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD), 2024

**TALKS AND
PRESENTATIONS****Noise Robust Graph Learning under Feature-Dependent Graph-Noise**

- WWW DCAI (Singapore, Singapore), Contributed Oral Talk, 2024.05

Self-Guided Robust Graph Structure Refinement

- WWW (Singapore, Singapore), Oral Presentation, 2024.05

Similarity Preserving Adversarial Graph Contrastive Learning

- KDD (Long Beach, USA), Oral Presentation, 2023.08

REFERENCES**Prof. Chanyoung Park**

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KAIST (Korea Advance Institute of Science and Technology)
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Dr. Sungchul Kim

Senior Research Scientist
Adobe Research
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Prof. Jae-Yoon Jung

Professor of Industrial and Management Engineering
Kyunghee University
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