

GEON LEE

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Homepage: <http://geonlee0325.github.io>

RESEARCH INTERESTS

Data Mining, Graph Mining, Machine Learning, Deep Learning, Social Network Analysis

EDUCATION

Korea Advanced Institute of Science and Technology (KAIST)

Seoul, South Korea

M.S. & Ph.D. in Artificial Intelligence

Sep. 2020 –

Advisor: Kijung Shin

Sungkyunkwan University (SKKU)

Suwon, South Korea

B.S. in Computer Science and Engineering

Mar. 2016 – Aug. 2019

GPA: 4.41/4.50; C.S.: 4.45/4.50 (Ranked 1st in the College of CSE)

WORK EXPERIENCE

NEC Labs America

Princeton, NJ, USA

Research Intern

May 2023 – Aug. 2023

Mentor: Wenchao Yu / Manager: Haifeng Chen

Amazon

San Francisco, CA, USA

Applied Scientist Intern

Sep. 2022 – Dec. 2022

Mentor: Zhonghao Luo / Manager: Tao Ye

AWARDS AND HONORS

Selected as One of the **Best-Ranked Papers of ICDM 2021**

Dec. 2021

Sungkyunkwan Presidential Award

Aug. 2019

Dean's List

2016 – 2019

Sungkyunkwan Software Scholarship (Full tuition scholarship)

2016 – 2019

TUTORIALS

- [1] Mining of Real-World Hypergraphs: Patterns, Tools, and Generators

Geon Lee, Jaemin Yoo, and Kijung Shin

KDD 2023 & WWW 2023 & ICDM 2022 & CIKM 2022

PUBLICATIONS

- [1] Temporal Hypergraph Motifs

Geon Lee and Kijung Shin

Knowledge and Information Systems (SCIE Journal, 2023)

- [2] Set2Box: Similarity Preserving Representation Learning for Sets

Geon Lee, Chanyoung Park, and Kijung Shin

ICDM 2022

- [3] HashNWalk: Hash and Random Walk Based Anomaly Detection in Hyperedge Streams

Geon Lee, Minyoung Choe, and Kijung Shin

IJCAI 2022

- [4] MiDaS: Representative Sampling from Real-World Hypergraphs
Minyoung Choe, Jaemin Yoo, Geon Lee, Woonsung Baek, U Kang, and Kijung Shin
WWW 2022
- [5] Simple Epidemic Models with Segmentation Can Be Better than Complex Ones
Geon Lee, Se-eun Yoon, and Kijung Shin
PLOS ONE (SCIE Journal, 2022)
*Oral presentation at **epiDAMIK workshop in KDD 2021***
- [6] THyMe+: Temporal Hypergraph Motifs and Fast Algorithms for Exact Counting
Geon Lee and Kijung Shin
ICDM 2021
*Selected as One of the **Best-Ranked Papers of ICDM 2021***
- [7] How Do Hyperedges Overlap in Real-World Hypergraphs? - Patterns, Measures, and Generators
Geon Lee*, Minyoung Choe*, and Kijung Shin (* equal contribution)
WWW 2021
- [8] Hypergraph Motifs: Concepts, Algorithms, and Discoveries
Geon Lee, Jihoon Ko, and Kijung Shin
VLDB 2020
- [9] MEGA: Multi-View Semi-Supervised Clustering of Hypergraphs
Joyce Jiyoung Whang, Rundong Du, Sangwon Jung, Geon Lee, Barry Drake, Qingqing Liu, Seonggoo Kang, and Haesun Park
VLDB 2020
- [10] Hyperlink Classification via Structured Graph Embedding
Geon Lee, Seonggoo Kang, and Joyce Jiyoung Whang
SIGIR 2019 (Short Paper)

ACADEMIC SERVICES

Conference Reviewer

- ACM Conference on Knowledge Discovery and Data Mining (**KDD**) 2023
- Learning on Graphs Conference (**LoG**) 2022

Journal Reviewer

- IEEE Transactions on Knowledge and Data Engineering (**TKDE**) 2023
- IEEE Transactions on Neural Networks and Learning Systems (**TNNLS**) 2023

PROJECTS

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| AI-based Weather Forecast Support Development | July 2021 – |
| COVID-19 Task Force | Mar. 2020 – Sep. 2020 |

SKILLS

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|-------------------------|---|
| Languages | Korean (mother tongue), English (fluent), Japanese (fluent) |
| Computing Skills | C, C++, Python, Matlab, Java, Android |

TEACHING

Teaching Assistant

- KAIST AI506 Data Mining and Search Spring 2023, Spring 2021
- KAIST AI607 Graph Mining and Social Network Analysis Fall 2022, Fall 2021, Fall 2021

- KAIST AI617 Machine Learning for Robotics
- SKKU CSE3036 Seminar in Computer Engineering

Spring 2022

Fall 2019