

Taehyung Kwon

✉ taehyung.kwon@kaist.ac.kr | 🏠 <https://kbrother.github.io/> | 🌐 kbrother |
https://scholar.google.co.kr/citations?user=Ld_e3xIAAAJ&hl=en&oi=ao

Education

KAIST

M.S. in Artificial Intelligence

KAIST Data Mining Lab, Advisor: Kijung Shin

Seoul, South Korea

Mar. 2020 - Feb. 2022

KAIST

B.S. in School of Computing

GPA: 4.0/4.3, Major GPA: 4.0/4.3, **Summa Cum Laude**

Daejeon, South Korea

Mar. 2015 - Feb. 2020

Publications

- [1] **TensorCodec: Compact Lossy Compression of Tensors without Strong Data Assumptions (to appear)**
Taehyung Kwon, Jihoon Ko, Jinhong Jung, and Kijung Shin.
IEEE ICDM 23. [\[Link\]](#) **Best Student Paper Runner-up Award.**
- [2] **NeuKron: Constant-Size Lossy Compression of Sparse Reorderable Matrices and Tensors**
Taehyung Kwon*, Jihoon Ko*, Jinhong Jung, and Kijung Shin.
ACM WWW 23. [\[Link\]](#)
- [3] **Begin: Extensive Benchmark Scenarios and an Easy-to-use Framework for Graph Continual Learning**
Jihoon Ko*, Shinhwan Kang*, Taehyung Kwon, Heechan Moon, Kijung Shin
Preprint (2022). [\[Link\]](#)
- [4] **Finding a Concise, Precise, and Exhaustive Set of Near Bi-Cliques in Dynamic Graphs**
Hyeonjeong Shin, Taehyung Kwon, Neil Shah, and Kijung Shin.
ACM WSDM 22. [\[Link\]](#)
- [5] **Learning to Pool in Graph Neural Networks for Extrapolation**
Jihoon Ko, Taehyung Kwon, Kijung Shin, and Juho Lee.
Preprint (2021). [\[Link\]](#)
- [6] **Slicenstitch: Continuous CP Decomposition of Sparse Tensor Streams**
Taehyung Kwon*, Inkyu Park*, Dongjin Lee, and Kijung Shin.
IEEE ICDE 21. [\[Link\]](#)

Projects

Development of the Platform for Safety from Disasters

Researcher

Ministry of Science and ICT

Dec. 2019 - Aug. 2022

- I developed the algorithm for removing anomalies and imputing missing values of sensor data in real time. The method is based on the online tensor decomposition algorithm.

Robust, Fair, and Scalable Data-driven Continual Learning

Researcher

Ministry of Science and ICT

Sep. 2022 -

- I am developing a novel algorithm for graph condensation.

Awards and Honors

2023	IEEE ICDM Best Student Paper Runner-up Award
2017 - 2018	The National Scholarship for Science and Engineering
2015	Dean's List

Technical Skills

Programming	C, C++, Matlab, Python
Drawing & Typesetting	Office, \LaTeX
Languages	Korean (Native), English

TEACHING

Teaching Assistant

KAIST

- AI607 Graph Mining and Social Network Analysis
- AI506 Data Mining and Search

Fall 2020, Fall 2021, Fall 2022, Fall 2023

Spring 2020, Spring 2021, Spring 2022, Spring 2023, Spring 2024