

Taehyung Kwon

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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. **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] **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. [\[Link\]](#)

- [4] **Learning to Pool in Graph Neural Networks for Extrapolation**

Jihoon Ko, **Taehyung Kwon**, Kijung Shin, and Juho Lee.

CoRR abs/2106.06210. Preprint [\[Link\]](#)

- [5] **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

Ministry of Science and ICT

Researcher

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

Ministry of Science and ICT

Researcher

Sep. 2022 -

- I am developing a novel continual learning algorithm for graph neural networks.

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, L^AT_EX

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
Spring 2020, Spring 2021, Spring 2022