# **Taehyung Kwon**

☑ taehyung.kwon@kaist.ac.kr | 🏕 https://kbrother.github.io/ | 🔾 http://github.com/kbrother

**Education** 

KAIST Seoul, South Korea

M.S. in Artificial Intelligence Mar. 2020 - Feb. 2022

KAIST Data Mining Lab, Advisor: Kijung Shin

KAIST Daejeon, South Korea

B.S. in School of Computing Mar. 2015 - Feb. 2020

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

## **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**.

[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

Sep. 2022 -

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 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

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

# Awards and Honors .

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

Spring 2020, Spring 2021, Spring 2022