

SUNGWON KIM

[Homepage](#) · [Github](#) · [Google Scholar](#) · swkim@kaist.ac.kr

EDUCATION

Feb 2022 – Present	Korea Advanced Institute of Science and Technology (KAIST) <i>M.S. in Graduate School of Data Science, at Data Science - Artificial Intelligence Lab (DSAIL)</i> <i>Advisor: Prof. Chanyoung Park</i>	DAEJEON, KOREA
Mar 2014 – Feb 2022	Korea University <i>B.S. in Architecture & Civil Engineering</i> <i>GPA: 3.90 out of 4.5</i>	SEOUL, KOREA

RESEARCH INTEREST

Data Mining for Graph Neural Networks
Data-Efficient Deep Learning

WORK EXPERIENCE

Jul 2019 – Feb 2022	AI SOFTWARE OF KOREA (한국에이아이소프트) <i>Co-CEO, Co-Founder</i>	SEOUL, KOREA
---------------------	--	--------------

PUBLICATIONS

<i>Conferences</i>	[C5]	DSLRL: Diversity Enhancement and Structure Learning for Rehearsal-based Graph Continual Learning Seungyoon Choi*, Wonjoong Kim*, Sungwon Kim , Yeonjun In, Sein Kim, Chanyoung Park WWW 2024 – The Web Conference
	[C4]	Interpretable Prototype-based Graph Information Bottleneck Sangwoo Seo, Sungwon Kim , Chanyoung Park NeurIPS 2023 - In Conference on Neural Information Processing Systems (NeurIPS) (Gold Prize at the 2023 Samsung Humantech Paper Award)
	[C3]	Density of States Prediction of Crystalline Materials via Prompt-guided Multi-Modal Transformer Namkyeong Lee*, Heewoong Noh*, Sungwon Kim , Dongmin Hyun, Gyoung S. Na, Chanyoung Park NeurIPS 2023 - In Conference on Neural Information Processing Systems (NeurIPS)
	[C2]	Task-Equivariant Graph Few-shot Learning Sungwon Kim , Junseok Lee, Namkyeong Lee, Wonjoong Kim, Seungyoon Choi, Chanyoung Park KDD 2023 - ACM SIGKDD Conference on Knowledge Discovery and Data Mining
	[C1]	Conditional Graph Information Bottleneck for Molecular Relational Learning Namkyeong Lee, Dongmin Hyun, Gyoung S Na, Sungwon Kim , Junseok Lee, Chanyoung Park ICML 2023 - International Conference on Machine Learning
<i>Journals</i>	[J1]	Deep Single-cell RNA-seq Data Clustering with Graph Prototypical Contrastive Learning Junseok Lee, Sungwon Kim , Dongmin Hyun, Namkyeong Lee, Yejin Kim, Chanyoung Park Bioinformatics 2023 (SCI)
<i>Workshops</i>	[W2]	Deep Single-cell RNA-seq Data Clustering with Graph Prototypical Contrastive Learning Junseok Lee, Sungwon Kim , Dongmin Hyun, Namkyeong Lee, Yejin Kim, Chanyoung Park ICML 2023 Workshop on Computational Biology (WCB 2023)
	[W1]	Predicting Density of States via Multi-modal Transformer Namkyeong Lee, Heewoong Noh, Sungwon Kim , Dongmin Hyun, Gyoung S Na, Chanyoung Park ICLR 2023 Workshop on Machine Learning for Materials (ML4Materials) - International Conference on Learning Representations

PROJECTS

Jan 2021 – Feb 2022	Translating Korean Legal Case's Sentences into Common Terms 1 st award project at <i>Seoul R&D research center (2021)</i>
Jun 2020 – Dec 2020	Sentence Similarity Model for Korean Legal Sentences 1 st award project at <i>Seoul R&D research center (2020)</i>
Oct 2017 – Dec 2017	Analysis of Color Cognitive of Older Persons or Children with Disabilities by Big Data <i>Development of Color Cognitive Test Kit and Multivariate Regression Analysis</i>

HONORS AND AWARDS

Dec 2020	Seoul Renovation Challenge Awarded for the best team out of 444 participants <i>Systems and methods for providing quantified AI answering services for legal questions</i>	Seoul Business Agency
----------	---	-----------------------

Jul 2015

National University Rowing Conference
Top award, Crew of Korea University Rowing Team

Korean Rowing Association

INTELLECTUAL PROPERTY RIGHTS

Oct 2019

Big data and AI-based Color Recognition Measurement Platform and Method
Patent Number : 10-2351169-00-00
Registered Patent

TEACHING EXPERIENCE

Sep. 2023

AI Specialist Course, Samsung Electronics
Teaching Assistant

Spring 2023

DS503: Machine Learning for Data Science, KAIST
Teaching Assistant

Fall 2022

AI Business Transformation Program, KAIST
Researcher

Spring 2022

IE343: Statistical Machine Learning, KAIST
Teaching Assistant

TALKS AND SEMINARS

Winter 2023

Task-Equivariant Graph Few-shot Learning
Top Conference Session of Korea Software Congress (KSC)

ACTIVITIES

Mar 2015 – Present

Korea University Rowing Team

Apr 2019 – Feb 2020

Working Holidays in Australia
Swimming Instructor, United Swimming Club

REFERENCES

Prof. Chanyoung Park

Assistant professor, KAIST
[Email] cy.park@kaist.ac.kr