

SUNGWON KIM

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EDUCATION

Feb 2022 – Present	Korea Advanced Institute of Science and Technology (KAIST) <i>M.S. in Graduate School of Data Science, at <u>Data Science - Artificial Intelligence Lab (DSAIL)</u></i> <i>Advisor: <u>Prof. Chanyoung Park</u></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
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PUBLICATIONS

Conferences	[C4]	Interpretable Prototype-based Graph Information Bottleneck Sangwoo Seo, Sungwon Kim , Chanyoung Park NeurIPS 2023 - In Conference on Neural Information Processing Systems (NeurIPS)
	[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, Seungyeon 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
Journals	[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)
Workshops	[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

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Oct 2019	Big data and AI-based Color Recognition Measurement Platform and Method Patent Number : 10-2351169-00-00 <i>Registered Patent</i>
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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

ACTIVITIES

Mar 2015 – Present	Korea University Rowing Team
Apr 2019 – Feb 2020	Working Holidays in Australia Swimming Instructor, United Swimming Club

REFERENCES

Prof. Chanvoun Park
Assistant professor, KAIST
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