

SUNGWON KIM

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EDUCATION

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| 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
Few-shot Learning

WORK EXPERIENCE

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

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| 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

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| 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 |

PUBLICATIONS

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|-------------|------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Conferences | [C2] | Task-Equivariant Graph Few-shot Node Classification Sungwon Kim, Junseok Lee, Namkyeong Lee, Wonjoong Kim, Seungyeon Choi, and 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, and 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 | [W1] | Predicting Density of States via Multi-modal Transformer Namkyeong Lee, Heewoong Noh, Sungwon Kim, Dongmin Hyun, Gyoung S Na, and Chanyoung Park ICLR 2023 Workshop on Machine Learning for Materials (ML4Materials) - International Conference on Learning Representations |

INTELLECTUAL PROPERTY RIGHTS

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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

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| 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

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| 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
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