SUNGWON KIM

Homepage · **Github** · **Google Scholar** · **swkim@kaist.ac.kr**

EDUCATION

Feb 2022 – Present **Korea Advanced Institute of Science and Technology (KAIST)** DAEJEON, KOREA
M.S. in Graduate School of Data Science, at Data Science - Artificial Intelligence Lab (DSAIL)
Advisor: Prof. Chanyoung Park

Mar 2014 – Feb 2022 **Korea University** SEOUL, KOREA
B.S. in Architecture & Civil Engineering
GPA: 3.90 out of 4.5

RESEARCH INTEREST

Data Mining for Graph Neural Networks
Few-shot Learning
Meta Learning

WORK EXPERIENCE

Jul 2019 – Feb 2022 **AI SOFTWARE OF KOREA** (한국에이아이소프트) SEOUL, KOREA
Co-CEO, Co-Founder

RESEARCH EXPERIENCE

Jan 2021 – Feb 2022 **Translating Korean Legal Case's Sentences into Common Terms**
1st award project at *Seoul R&D research center (2021)*

Jun 2020 – Dec 2020 **Sentence Similarity Model for Korean Legal Sentences**
1st award project at *Seoul R&D research center (2020)*

Oct 2017 – Dec 2017 **Analysis of Color Cognitive of Older Persons or Children with Disabilities by Big Data**
Development of Color Cognitive Test Kit and Multivariate Regression Analysis

HONORS AND AWARDS

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

Jul 2015 **National University Rowing Conference** Korean Rowing Association
Top award, Crew of Korea University Rowing Team

PUBLICATIONS

Conference [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

[C2] **Task-Equivariant Graph Few-shot Node Classification**
Sungwon Kim, Junseok Lee, Namkyeong Lee, Wonjoong Kim, Seungyoon Choi, and Chanyoung Park
KDD 2023 - ACM SIGKDD Conference on Knowledge Discovery and Data Mining

Workshop [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

TEACHING EXPERIENCE

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

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Dec 2020 **Systems and methods of translating Korean legal case's sentences into common terms**

Application Number : 10-2020-0187838
Pending approval

Sep 2020 **Systems and methods for providing quantified AI answering services for legal questions**
Application Number : 10-2020-0126150
Pending approval

Oct 2019 **Big data and AI-based color recognition measurement platform and method**
Application Number : 10-2019-012625
Pending approval