JADEN PARK

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RESEARCH INTERESTS

My research interest lies in developing highly performant and mathematically justified machine learning systems that can be safely depolyed to solve real-world problems. Currently, I am interested in multimodality, robustness and generalization.

EDUCATION

University of Wisconsin-Madison   `Present`
Ph.D. in Computer Science

- ○ Research areas: theory and application of foundation models
- ○ Advised by Yong Jae Lee

Seoul National University   2023
B.S. in Mathematics and Computer Science, 4.0/4.0 Upper Major GPA, summa cum laude

- ○ Research areas: foundation models, representation learning, real-time systems
- ○ Advised by Wonjong Rhee

EXPERIENCE

Research Intern at Krafton AI   2023–2024
Advisor: Kangwook Lee, Dimitris Papailiopoulos

- ○ Worked on in-context learning, image clustering and text-based benchmark generation

Research Intern at DRL Lab, SNU   `Summer 2021, Summer 2022`
Advisor: Wonjong Rhee

- ○ Worked on ECG classification and contrastive learning theory

Research Intern at ML Lab, SNU   2021–2022
Advisor: Hyun Oh Song

- ○ Worked on improving dataset condensation by contrastive training

Research Intern at RUBIS Lab, SNU   2020–2021
Advisor: Chang-Gun Lee

- ○ Worked on optimal scheduling algorithm of real-time DAG tasks with hard deadlines

AWARDS

CS Departmental Scholarship, UW-Madison	2024–2025
Undergraduate Thesis Award, SNU CSE (best thesis in deep learning)	2023
Krafton AI Fellowship (top 5 undergraduates in deep learning; $10,000 scholarship)	2023
SNU College of Natural Sciences Planet A Hackathon (1st place; $4,000 prize)	2021
Outstanding Undergraduate Paper Award, KCC 2021	2021
Best Undergraduate Paper Award, KCC 2020	2020

SELECTED PUBLICATIONS

* indicates equal contribution. For more information, see Google Scholar.

TemporalBench: Benchmarking Fine-grained Temporal Understanding for Multimodal Video Models
M. Cai, · · ·, **J. Park**, J. Gao, YJ Lee, J Yang
NeurIPS 2024 Workshop on Video-Language Models (oral)

Can Mamba Learn How to Learn? A Comparative Study on In-Context Learning Tasks
J. Park, **J. Park**, Z. Xiong, N. Lee, J. Cho, S. Oymak, K. Lee, D. Papailiopoulos
ICML 2024

Image Clustering Conditioned on Text Criteria
S. Kwon, **J. Park**, M. Kim, J. Cho, E. Ryu, K. Lee
ICLR 2024

Learning ECG Representations for Multi-Label Classification of Cardiac Abnormalities
J. Suh, J. Kim, E. Lee, J. Kim, D. Hwang, J. Park, J. Lee, **J. Park**, S. Moon, Y. Kim, M. Kang, S. Kwon, E. Choi, W. Rhee
CinC 2021

Conditionally Optimal Parallelization of Real-Time DAG Tasks for Global EDF
Y. Cho, D. Shin, **J. Park**, C. G. Lee
RTSS 2021

PATENTS

Parking Management Device and Method for Autonomous Vehicles, KR Patent Application No. 102020015768 (private)	2020

TEACHING EXPERIENCE

CS240 (Discrete Mathematics), UW-Madison `Fall 2024`

○ Led discussion sessions, held office hours, graded, answered questions

Introduction to Deep Learning, SNU `Spring 2023`
Instructor: Hyun Oh Song

○ Graded assignments and exams; answered questions

Mathematical Foundations of Deep Neural Networks, SNU `Fall 2022`
Instructor: Ernest K. Ryu

○ Graded assignments and exams; answered questions

Mathematics: The Basics and Application 1, SNU `Spring 2019`

○ Self-organized peer tutoring sessions, later adopted as a department-wise program.

SERVICE

Conferences and Workshops

○ Reviewer, ICML	2024, 2025
○ Reviewer, ICLR	2025
○ Reviewer, AAAI	2025
○ Reviewer, NeurIPS Workshop on R0-FoMo	2024

MISCELLANEOUS

English Proficiency	TOEFL 118 (2023), SAT 2400 (2015)
Erdös Number: 4	{E. Ryu, W. Rhee} $\rightarrow$ S. Boyd $\rightarrow$ P. Diaconis $\rightarrow$ P. Erdös

REFERENCES

Yong Jae Lee, Associate Professor at University of Wisconsin-Madison, yongjaelee@cs.wisc.edu

Wonjong Rhee, Professor at Seoul National University, wrhee@snu.ac.kr