

JADEN PARK

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RESEARCH INTERESTS

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

EDUCATION

University of Wisconsin-Madison

2024–

Ph.D. in Computer Science, Present

M.S. in Computer Science, 2024-2025

- Research areas: understanding and improving (multi-modal) foundation models
- 4.0/4.0 GPA
- Advised by Yong Jae Lee

Seoul National University

2023

B.S. in Mathematics and Computer Science

- Research areas: foundation models, representation learning, real-time systems
- 4.0/4.0 Upper Major GPA, *summa cum laude*
- Advised by Wonjong Rhee

EXPERIENCE

Research Scientist Intern at Adobe Research, San Jose, CA

May 2025 – Jan 2026

Advisor: Valentin Deschaintre, Krishna Kumar Singh

- Working on material-semantics aware multimodal segmentation

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](#).

[Contamination Detection for VLMs using Multi-Modal Semantic Perturbation](#)

J. Park, M. Cai, F. Yao, J. Shang, S. Lee, YJ Lee

arXiv preprint

[Decomposing Complex Visual Comprehension into Atomic Visual Skills for Vision Language Models](#)

H. Chae, S. Yoon, **J. Park**, C. Chun, Y. Cho, M. Cai, YJ Lee, E. Ryu

arXiv preprint

[TemporalBench: Benchmarking Fine-grained Temporal Understanding for Multimodal Video Models](#)

M. Cai, ..., **J. Park**, J. Gao, YJ Lee, J Yang

arXiv preprint, 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
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TEACHING EXPERIENCE

CS639 (Deep Learning for Computer Vision), UW-Madison

Spring 2025

Instructor: Yong Jae Lee

- Held office hours, designed exam questions, graded, answered questions

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, CVPR 2026
- Reviewer, NeurIPS 2025
- Reviewer, ICCV 2025
- Reviewer, ICML 2024, 2025
- Reviewer, ICLR 2025, 2026
- Reviewer, AAAI 2025, 2026
- Reviewer, NeurIPS Workshop on R0-FoMo 2024
- Reviewer, ICCV Workshop on Closing the loop between Vision and Language 2025

MISCELLANEOUS

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

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