

# JADEN PARK

jadenpark@cs.wisc.edu ◊ jadenpark0.github.io

## RESEARCH INTERESTS

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

## EDUCATION

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### 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

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### 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

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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

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\* 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

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Parking Management Device and Method for Autonomous Vehicles,

2020

KR Patent Application No. 102020015768 (private)

## TEACHING EXPERIENCE

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**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

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### 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

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**English Proficiency** TOEFL 118 (2023), SAT 2400 (2015)

**Erdős Number: 4** {E. Ryu, W. Rhee} → S. Boyd → P. Diaconis → P. Erdős

## REFERENCES

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Yong Jae Lee, Associate Professor at University of Wisconsin-Madison, [yongjaelee@cs.wisc.edu](mailto:yongjaelee@cs.wisc.edu)

Wonjong Rhee, Professor at Seoul National University, [wrhee@snu.ac.kr](mailto:wrhee@snu.ac.kr)