

Jongho Park

Education

University of California, Berkeley
Advisor: Jason D. Lee, Song Mei

Ph.D, EECS, 2025-

University of Wisconsin-Madison
Advisor: Christos Tzamos

M.S., Computer Sciences, 2021

University of California, Berkeley

B.A., Computer Science and Mathematics (with high honors), 2019

Work

Research Scientist, KRAFTON Inc.
Lead of Core Research Team

2021 – 2025

2024 – 2025

Worked primarily on scalable algorithms for LLMs at Krafton AI.

Advised research on quantization, in-context learning, RLVR, RL theory.

Led the efficient deployment generative agents (“Smart ZOI”) onto InZOI in collaboration with NVIDIA.

Projects: [Smart ZOI](#), [Long-term memory](#)

Fulfilled alternative mandatory military service for 11/2021–11/2024.

Preprints

$\alpha\text{-}\beta$ denotes alphabetical order. * denotes equal contribution.

1. [ThinkSafe: self-generated safety alignment for reasoning models](#)
Seanie Lee, Sangwoo Park, Yumin Choi, Gyeongman Kim, Minki Kang, Jihun Yun, Dongmin Park, **Jongho Park**, Sung Ju Hwang
Under Review.
2. [Lookahead unmasking elicits accurate decoding in diffusion language models](#)
Sanghyun Lee, Seungryong Kim, **Jongho Park**, Dongmin Park
Under Review.
3. [Effective test-time scaling of discrete diffusion through iterative refinement](#)
Sanghyun Lee, Sunwoo Kim, Seungryong Kim, **Jongho Park**, Dongmin Park
Under Review.
4. [Alignment as distribution learning: your preference model is explicitly a language model](#)
Jihun Yun*, Juno Kim*, **Jongho Park**, Jongha Jon Ryu, Junhyuck Kim, Jaewoong Cho, Kwang-Sung Jun
FoPT workshop at COLT 2025. Under Review.

Publications

1. [Not all bits are equal: scale-dependent memory optimization strategies for reasoning models](#)
Junhyuck Kim, Ethan Ewer, Taehong Moon, **Jongho Park**, Dimitris Papailiopoulos
ICLR 2026. Efficient Reasoning workshop at NeurIPS 2025.
2. [Can large language models develop strategic reasoning? Post-training insights from learning chess](#)
Dongyoohn Hwang, Hojoon Lee, Jaegul Choo, Dongmin Park, **Jongho Park**
ScalR workshop at COLM 2025

3. Task diversity shortens the ICL plateau
Jaeyeon Kim, Sehyun Kwon, Joo Young Choi, **Jongho Park**, Jaewoong Cho, Jason D. Lee, Ernest K. Ryu
TMLR 2025
4. Lexico: extreme KV cache compression via sparse coding over universal dictionaries
Junhyuck Kim, **Jongho Park**, Jaewoong Cho, Dimitris Papailiopoulos
ICML 2025. ICLR Workshop on Sparsity in LLMs (spotlight).
5. Can Mamba learn how to learn? A comparative study on in-context learning
Jongho Park, Jaeseung Park, Zheyang Xiong, Nayoung Lee, Jaewoong Cho, Samet Oymak, Kangwook Lee, Dimitris Papailiopoulos
ICML 2024
6. First-order stochastic optimization with oblivious noise
Ilias Diakonikolas, Sushrut Karmalkar, **Jongho Park**, Christos Tzamos (α - β)
NeurIPS 2023
7. GLM regression with oblivious corruptions
Ilias Diakonikolas, Sushrut Karmalkar, **Jongho Park**, Christos Tzamos (α - β)
COLT 2023
8. Prompted LLMs as chatbot modules for long open-domain conversation
Gibbeum Lee*, Volker Hartmann*, **Jongho Park***, Dimitris Papailiopoulos, Kangwook Lee
Findings of ACL 2023
9. ReLU regression with Massart noise
Ilias Diakonikolas, **Jongho Park**, Christos Tzamos (α - β)
NeurIPS 2021
10. On robust mean estimation under coordinate-level corruption
Zifan Liu*, **Jongho Park***, Theodoros Rekatsinas, Christos Tzamos
ICML 2021
11. Literary event detection
Matthew Sims, **Jongho Park**, David Bamman
ACL 2019

Awards and Fellowships

Kwanjeong Educational Foundation Fellowship 2019 – 2021

CS Summer Research Assistantship Summer 2020
Awarded to outstanding students who were first-year graduate students at UW-Madison.

CS Departmental Scholarship *UW-Madison, 2019–2020*

Teaching Experience

Teaching Assistant, UW-Madison

- Advanced Algorithms (COMPSCI 787), Fall 2020
- Intro to Algorithms (COMPSCI 577), Spring 2020
- Intro to Discrete Math (COMPSCI 240), Fall 2019

Head Teaching Assistant, UW-Madison

- Intro to Algorithms (COMPSCI 577), Spring 2021

Undergraduate Student Instructor, UC Berkeley

- Efficient Algorithms and Intractable Problems (CS 170), 2018–2019
- Intro to Discrete Math and Probability (CS 70), Summer 2017

Professional Service

Reviewer: ACL, AISTATS, NeurIPS, ICML, ICLR, STOC

Languages

English (native), Korean (native)
Python (PyTorch), L^AT_EX

References

Jason D. Lee	Associate Professor, UC Berkeley
Song Mei	Assistant Professor, UC Berkeley
Kangwook Lee	Assistant Professor, UW-Madison; Krafton AI
Dimitris Papailiopoulos	Associate Professor, UW-Madison; Microsoft Research
Christos Tzamos	Associate Professor, University of Athens
Ilias Diakonikolas	Professor, UW-Madison