

## 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.

2021 – 2025

Lead of Core Research Team

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

$\alpha$ - $\beta$  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](#)  
Dongyoon 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 ( $\alpha$ - $\beta$ )  
*NeurIPS 2023*
7. [GLM regression with oblivious corruptions](#)  
Ilias Diakonikolas, Sushrut Karmalkar, **Jongho Park**, Christos Tzamos ( $\alpha$ - $\beta$ )  
*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 ( $\alpha$ - $\beta$ )  
*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 Awarded to outstanding students who were first-year graduate students at UW-Madison.	Summer 2020
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),  $\LaTeX$

## References

<a href="#">Jason D. Lee</a>	Associate Professor, UC Berkeley
<a href="#">Song Mei</a>	Assistant Professor, UC Berkeley
<a href="#">Kangwook Lee</a>	Assistant Professor, UW-Madison; Krafton AI
<a href="#">Dimitris Papailiopoulos</a>	Associate Professor, UW-Madison; Microsoft Research
<a href="#">Christos Tzamos</a>	Associate Professor, University of Athens
<a href="#">Ilias Diakonikolas</a>	Professor, UW-Madison