JIN PENG ZHOU

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EDUCATION

Cornell University

Ph.D. Candidate in Computer Science Supervised by Prof. Kilian Weinberger & Wen Sun	2021/08-Present

- NSF NAIRR Pilot Award — 2024/08
- NSERC CGS Doctoral Fellowship — 2022/12
- Cornell University Fellowship — 2021/08

University of Toronto

BASc in Engineering Science Machine Intelligence Option, Graduated with High Honours	2016/09-2021/06

- Cumulative GPA: 3.95/4.0
- Undergraduate Thesis Supervisor: Prof. Roger Grosse
- Research Assistant under Prof. Nicolas Papernot and Prof. Scott Sanner

SELECTED PUBLICATIONS (Google Scholar)

- *Jin Peng Zhou*, Kaiwen Wang*, Jonathan Chang, Zhaolin Gao, Nathan Kallus, Kilian Weinberger, Kiante Brantley, Wen Sun*. Q♯: Provably Optimal Distributional RL for LLM Post-Training. NeurIPS 2025
- *Kaiwen Wang*, Jin Peng Zhou*, Jonathan Chang, Zhaolin Gao, Nathan Kallus, Kiante Brantley, Wen Sun*. Value-Guided Search for Efficient Chain-of-Thought Reasoning. NeurIPS 2025
- *Jin Peng Zhou, Seb Arnold, Nan Ding, Kilian Weinberger, Nan Hua, Fei Sha*. Graders Should Cheat: Privileged Information Enables Expert-Level Automated Evaluations. EMNLP 2025
- *Jin Peng Zhou*, Christian Belardi*, Ruihan Wu*, Travis Zhang, Carla Gomes, Wen Sun, Kilian Weinberger*. On Speeding Up Language Model Evaluation. ICLR 2025
- *Jin Peng Zhou, Charles Staats, Wenda Li, Christian Szegedy, Kilian Weinberger, Yuhuai Wu.* Don't Trust: Verify - Grounding LLM Quantitative Reasoning with Autoformalization. ICLR 2024
- *Jin Peng Zhou*, Yuhuai Wu*, Qiyang Li, Roger Grosse.* REFACTOR: Learning to Extract Theorems from Proofs. ICLR 2024
- *Zhenzhen Liu*, Jin Peng Zhou*, Yufan Wang, Kilian Q. Weinberger.* Unsupervised Out-of-Distribution Detection with Diffusion Inpainting. ICML 2023
- *Albert Q. Jiang*, Sean Welleck*, Jin Peng Zhou*, Wenda Li, Jiacheng Liu, Mateja Jamnik, Timothée Lacroix, Yuhuai Wu, Guillaume Lample.* Draft, Sketch, and Prove: Guiding Formal Theorem Provers with Informal Proofs. ICLR 2023
- *Ruihan Wu*, Jin Peng Zhou*, Kilian Q Weinberger, Chuan Guo.* Does Label Differential Privacy Prevent Label Inference Attacks? AISTATS 2023
- *Jin Peng Zhou*, Zhaoyue Cheng*, Felipe Perez, Maksims Volkovs.* TAFA: Two-headed Attention Fused Autoencoder for Context-Aware Recommendations. RecSys 2020

EMPLOYMENT & TEACHING

Research Scientist Intern, **Meta MSL**, Menlo Park, United States — 2025/05-2025/10
- Developed a fine-grained data filtering method for pre-training and mid-training datasets to improve LLM performance in mathematical reasoning tasks

Student Researcher, **Google DeepMind**, Mountain View, United States — 2024/05-2024/12
- Developed a novel method to enhance the comprehensiveness and effectiveness of LLM evaluation, leading to the publication of an internal report and invited talk due to its strategic impact
- Collaborated with the Gemma Team to benchmark and evaluate the performance of Gemma 2 models

Student Researcher, **Google Research**, Mountain View, United States — 2022/05-2023/05
- Contributed to the N2Formal team, focusing on the autoformalization of mathematical statements, definitions, and proofs
- Led a project utilizing theorem proving environments to ground LLM mathematical reasoning

Machine Learning Researcher, **TD Bank Layer6 AI**, Toronto, Canada — 2019/09-2020/06
- Part of the team that won 2nd place in the Twitter RecSys 2020 challenge, leveraging a combination of feature engineering and deep language models to make predictions of user engagement

Visiting Research Assistant (Mitacs Globalink Research Award), Supervisor: Prof. Vivienne Sze — 2019/05-2019/09

Energy-Efficient Multimedia Systems Group, Massachusetts Institute of Technology
- Developed and improved efficient eye-tracking algorithms on embedded devices to track neurodegenerative diseases by measuring saccade latency and error rates. Deployed the application on iOS that serves many Alzheimer disease patients

Instructor, **Department of Computer Science, Cornell University** — 2025/08-2025/12
- Taught CS1133: Introduction to Python Programming as the course instructor for 55 students