Min Chen

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EDUCATION

University of Pittsburgh — Pittsburgh, PA
Ph.D. in Computer Science | Advisor: Prof. Junyu Liu — *Sep 2025 – Present*

Georgia Institute of Technology — Atlanta, GA
M.S. in Electrical and Computer Engineering — *Sep 2022 – Jun 2025*

Tianjin University — Tianjin, China
B.E. in Functional Materials — *Sep 2018 – May 2022*

PUBLICATIONS (2025)

1. **Min Chen**, Guansong Pang, Wenjun Wang, Cheng Yan.
Information Bottleneck-guided MLPs for Robust Spatial-temporal Forecasting.
International Conference on Machine Learning (ICML 2025).
`Information Theory + AI`

2. David Meltzer, **Min Chen**, Junyu Liu.
Catapult dynamics and phase transitions in quadratic nets.
Journal of Statistical Mechanics: Theory and Experiment, 2025.
`Statistical Physics + AI`

3. **Min Chen**, Bingzhi Zhang, Quntao Zhuang, Junyu Liu.
An Analytic Theory of Quantum Imaginary Time Evolution.
arXiv preprint.
`Quantum Learning Theory`

4. **Min Chen**, Jinglei Cheng, Pingzhi Li, Haoran Wang, Tianlong Chen, Junyu Liu.
GroverGPT-2: Simulating Grover's Algorithm via Chain-of-Thought Reasoning and Quantum-Native Tokenization.
arXiv preprint.
`AI + Quantum`

5. Haoran Wang, Pingzhi Li, **Min Chen**, Jinglei Cheng, Junyu Liu, Tianlong Chen.
GroverGPT: A Large Language Model for Quantum Searching.
arXiv preprint.
`AI + Quantum`

6. **Min Chen**, Minzhao Liu, Changhun Oh, Liang Jiang, Yuri Alexeev, Junyu Liu.
Towards Symmetry-Aware Efficient Simulation of Quantum Systems and Beyond.
IEEE TPS-ISA 2025.
`Perspective`

AWARDS & GRANTS

- **Tinker Research Grant** — 2025
Thinking Machines Lab — $5,000 USD
Competitive research grant supporting independent research with compute credits and priority technical support.

EXPERIENCE

University of Pittsburgh — Pittsburgh, PA
Graduate Student Researcher — *Sep 2025 – Present*
Supervisor: Prof. Junyu Liu

- Research in quantum learning theory, statistical/quantum physics-inspired AI, and AI–quantum intersections.

University of Macau Macau, China
Research Assistant *Aug 2024 – Dec 2024*
Supervisor: Dr. Huanle Xu

- Designed and benchmarked LLM request scheduling strategies to optimize TPOT, TTFT, and throughput trade-offs.

TEACHING

- **CS 1503** Mathematical Foundations of Machine Learning
- **CMPINF 0401** Intermediate Programming

SERVICES

- **Reviewer**: KDD 2024; SLLM@ICLR 2025; npj Quantum Information; Scientific Reports