Min Chen

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EDUCATION

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

Georgia Institute of Technology — Atlanta, Georgia
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.
   The 42nd 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 (9), 093406.
   `Statistical Physics + AI`
3. **Min Chen**, Bingzhi Zhang, Quntao Zhuang Junyu Liu.
   An Analytic Theory of Quantum Imaginary Time Evolution.
   arXiv preprint arXiv:2510.22481.
   `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 arXiv:2505.04880.
   `AI + Quantum`
5. Haoran Wang, Pingzhi Li, **Min Chen**, Jinglei Cheng, Junyu Liu, Tianlong Chen.
   Grovergpt: A large language model with 8 billion parameters for quantum searching.
   arXiv preprint arXiv:2501.00135.
   `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.
   2025 IEEE 7th International Conference on Trust, Privacy and Security in Intelligent Systems, and Applications (TPS-ISA).
   `Perspective`

EXPERIENCE

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

- Quantum Learning Theory, Statistical/Quantum Physics + AI, AI+Quantum

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

- System for LLM
  - Benchmark and develop request scheduling strategy to achieve better trade-off between metrics such as TPOT, TTFT, throughput.

TEACHING

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

SERVICES

- **Reviewer.** KDD 2024, SLLM@ICLR 2025, npj Quantum Information, Scientific Reports