# Yiding Chen

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## Professional Experience

*Jan, 2024 - Present*
**Postdoc Associate**, Cornell University
- Hosted by Professor Wen Sun

*Jun, 2022 - Sep, 2022*
**Applied Scientist Intern**, Amazon
- Use Double Machine Learning to study vendor behavior

*May, 2021 - Aug, 2021*
**Research Intern**, Millennium Management, LLC
- Use Deep learning to make financial future price prediction.

## Education

**University of Wisconsin-Madison**
Ph.D. in Computer Sciences, minor in Mathematics                    *2018 - 2023*

**University of Wisconsin-Madison**
M.S. in Computer Sciences                    *2018 - 2020*

**Nanjing University**
Bachelor of Science in Statistics                    *2014 - 2018*

## Publications

Alex Clinton, Thomas Zeng, **Yiding Chen**, Xiaojin Zhu, Kirthevasan Kandasamy. A Cramér-von Mises Approach to Incentivizing Truthful Data Sharing. arXiv preprint, 2025

Owen Oertell*, Shikun Sun*, **Yiding Chen**\*, Jin Peng Zhou, Zhiyong Wang, Wen Sun. Efficient Controllable Diffusion via Optimal Classifier Guidance. arXiv preprint, 2025

Nicolas Espinosa-Dice, Yiyi Zhang, **Yiding Chen**, Bradley Guo, Owen Oertell, Gokul Swamy, Kianté Brantley, Wen Sun. Scaling Offline RL via Efficient and Expressive Shortcut Models. arXiv preprint, 2025

Mingyu Chen, **Yiding Chen**, Wen Sun, Xuezhou Zhang. Avoiding exp(R) scaling in RLHF through Preference-based Exploration. arXiv preprint, 2025

**Yiding Chen**, Yiyi Zhang, Owen Oertell, Wen Sun. Convergence of Consistency Model with Multistep Sampling under General Data Assumptions. In The Forty-Second *International Conference on Machine Learning (ICML)*, 2025

Alex Clinton, **Yiding Chen**, Xiaojin Zhu, Kirthevasan Kandasamy. Collaborative Mean Estimation Among Heterogeneous Strategic Agents: Individual Rationality, Fairness, and Truthful Contribution. In The Forty-Second *International Conference on Machine Learning (ICML)*, 2025

Runzhe Wu, **Yiding Chen**, Gokul Swamy, Kianté Brantley, Wen Sun. Diffusing States and Matching Scores: A New Framework for Imitation Learning. In The Thirteenth *International Conference on Learning Representations (ICLR)*, 2025

**Yiding Chen**, Xuezhou Zhang, Qiaomin Xie, and Xiaojin Zhu. Exact policy recovery in offline RL with both heavy-tailed rewards and data corruption. In The Thirty-Eighth *AAAI Conference on Artificial Intelligence (AAAI)*, 2024.

**Yiding Chen**, Xiaojin Zhu, Kirthevasan Kandasamy. Mechanism design for collaborative normal mean estimation In *Advances in Neural Information Processing Systems (NeurIPS), 2023*, **Spotlight**

Young Wu, Jeremy McMahan, **Yiding Chen**, Yudong Chen, Xiaojin Zhu, Qiaomin Xie. Minimally Modifying a Markov Game to Achieve Any Nash Equilibrium and Value. arXiv preprint, 2023

**Yiding Chen**\*, Xuezhou Zhang*, Kaiqing Zhang, Mengdi Wang, Xiaojin Zhu. Byzantine-Robust Online and Offline Distributed Reinforcement Learning. In *The 26th International Conference on Artificial Intelligence and Statistics (AISTATS), 2023*

Eric Pulick, Shubham Bharti, **Yiding Chen**, Vladimir Menkov, Yonatan Mintz, Paul Kantor, Vicki M Bier. The Game of Hidden Rules: A New Kind of Benchmark Challenge for Machine Learning. *arXiv preprint, 2022*

Xuezhou Zhang, **Yiding Chen**, Xiaojin Zhu, Wen Sun. Corruption-Robust Offline Reinforcement Learning. In *The 25th International Conference on Artificial Intelligence and Statistics (AISTATS), 2022*

Xuezhou Zhang, **Yiding Chen**, Xiaojin Zhu and Wen Sun. Robust Policy Gradient against Strong Data Corruption. In *The 38th International Conference on Machine Learning (ICML)*, 2021

**Yiding Chen**, Xiaojin Zhu. Optimal attack against autoregressive models by manipulating the environment. In *The Thirty-Fourth AAAI Conference on Artificial Intelligence (AAAI)*, 2020.

Zhiyan Ding, **Yiding Chen**, Qin Li and Xiaojin Zhu. Error Lower Bounds of Constant Step-size Stochastic Gradient Descent. *arXiv preprint, 2019*

## Awards

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| 2019 | **Summer Research Assistantship**, UW-Madison | |
| 2016 | **Meritorious Winner (top 8%)**, COMAP Mathematical Contest in Modeling | |
| 2015 | **First Prize in Jiangsu Province**, China Undergraduate Mathematical Contest in Modeling | |
| 2015 | **First Prize in Jiangsu Province**, China Undergraduate Mathematical Contest | |

## Professional Service

- Reviewer: ICLR 2023, 2025; ICML 2025; AISTATS 2023-2025; NeurIPS 2024-2025; NeurIPS 2022-2024 Track Datasets and Benchmarks; Reinforcement Learning for Real Life Workshop @ NeurIPS 2022

## Skills

- **Theory**: Machine Learning, Reinforcement Learning, Robust Statistics, Probability, Mathematics

- **Languages**: Chinese Mandarin (native), English (Fluent)

- **Coding**: Python, Matlab, LaTeX, R, SQL, ML package(PyTorch, TensorFlow, Pandas, ScikitLearn), Double Machine Learning package(DoubleML, EconML)