

Tuan Dung (Daniel) Ngo

AI Researcher, New York City, NY

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RESEARCH INTERESTS

Machine Learning Theory, Algorithmic Game Theory, Incentive-Aware Machine Learning, Incentivized Exploration, Causal Inference, Bandits Algorithm, Differential Privacy, Strategic Learning, Federated Learning, Uncertainty Quantification, Watermarking LLMs.

EDUCATION

University of Minnesota, Minneapolis, MN

August 2019 — December 2024

Computer Science Ph.D. Student

Advisors: Steven Wu and Maria Gini

Thesis: Incentive-Aware Machine Learning for Social Welfare Maximization under Uncertainty

Dickinson College, Carlisle, PA

August 2015 — May 2019

Bachelor of Science: Computer Science (*summa cum laude*)

Bachelor of Science: Mathematics (*summa cum laude*)

EMPLOYMENT

J.P.Morgan AI Research

AI Research Senior Associate

New York, NY

January 2025 — Present

J.P.Morgan AI Research

AI Research Summer Associate

New York, NY

Summer 2024

PUBLICATIONS

Conference Proceedings:

1. Hongyi Henry Jin, Zijun Ding, **Daniel Ngo**, and Zhiwei Steven Wu. *Discretization-free Multicalibration through Loss Minimization over Tree Ensembles*. Neural Information Processing Systems (NeurIPS), 2025.
2. Ally Yalei Du*, **Daniel Ngo***, and Zhiwei Steven Wu. *Reconciling Model Multiplicity for Downstream Decision Making*. International Conference on Learning Representations (ICLR), 2025.
3. Xinyan Hu*, **Daniel Ngo***, Zhiwei Steven Wu, and Aleksandrs Slivkins. *Incentivizing Combinatorial Bandit Exploration*. Neural Information Processing Systems (NeurIPS), 2022.
4. **Daniel Ngo***, Giuseppe Vietri*, and Zhiwei Steven Wu. *Improved Regret for Differentially Private Exploration in LinearMDP*. International Conference on Machine Learning (ICML), 2022.
5. Keegan Harris, **Daniel Ngo***, Logan Stapleton*, Hoda Heidari, and Zhiwei Steven Wu. *Strategic Instrumental Variable Regression: Recovering Causal Relationships From Strategic Responses*. International Conference on Machine Learning (ICML), 2022.
6. **Daniel Ngo***, Logan Stapleton*, Vasilis Syrgkanis, and Zhiwei Steven Wu. *Incentivizing Exploration with Algorithmic Instruments*. International Conference on Machine Learning (ICML), 2021.

Working Papers:

1. Shayleen Reynolds, Hengzhi He, **Daniel Ngo**, Saheed Obitayo, Niccolò Dalmaso, Guang Cheng, Vamsi K. Potluru, Manuela Veloso. *Breaking Distortion-free Watermarks in Large Language Models*. <https://arxiv.org/pdf/2502.18608>
2. **Daniel Ngo**, Archan Ray, Akshay Seshadri, Daniel Scott, Saheed Obitayo, Niraj Kumar, Vamsi K. Potluru, Marco Pistoia, and Manuela Veloso. *Adaptive and Robust Watermark for Generative Tabular Data*. <https://arxiv.org/pdf/2409.14700>
3. **Daniel Ngo***, Keegan Harris*, Anish Agarwal, Vasilis Syrgkanis, and Zhiwei Steven Wu. *Incentive-Aware Synthetic Control: Accurate Counterfactual Estimation via Incentivized Exploration*. <https://arxiv.org/pdf/2312.16307v1.pdf>
4. Shengyuan Hu*, **Daniel Ngo***, Shuran Zheng*, Virginia Smith, and Zhiwei Steven Wu. *Federated Learning as a Network Effects Game*. <https://arxiv.org/pdf/2302.08533.pdf>
5. Jane Hsieh, Angie Zhang, Erik Chou, Mialy Raseta Rinera, **Daniel Ngo**, Jason Carpenter, Min Kyung Lee, and Haiyi Zhu. *Supporting Worker Needs and Advancing Policy: Exploring Gig Worker-Centered Data-Sharing Alternatives*. <https://arxiv.org/pdf/2412.02973>

*Denotes equal contribution and/or alphabetical ordering

AWARDS AND HONORS

GAGE Fellowship
University of Minnesota

August 2019, May 2020

Alpha Lambda Delta
Math honors society, inducted as a junior.

April 2018

Upsilon Pi Epsilon
Computer Science honors society, inducted as a junior.

April 2018

TALKS

1. *"Incentivizing Combinatorial Bandit Exploration"*
INFORMS Annual Meeting (October 2024)
2. *"Incentive-Aware Synthetic Control: Accurate Counterfactual Estimation via Incentivized Exploration"*
INFORMS Annual Meeting (October 2023)
3. *"Incentivizing Exploration with Algorithmic Instruments"*
IMCL 2021 (July 2021, Short Presentation)

SERVICE

Conference Reviewer

- Artificial Intelligence and Statistics Conference (AISTAT) 2025
- Causal Learning and Reasoning (CLeaR) 2023
- International Conference on Learning Representations (ICLR) 2025, 2024
- International Conference on Machine Learning (ICML) 2025, 2024, 2023, 2022, 2021
- Conference on Neural Information Processing Systems (NeurIPS) 2025, 2024, 2023, 2022, 2021

TEACHING

- Guest Lecturer: Human AI Interaction (Fall 2023). Instructor: Haiyi Zhu
- Teaching Assistant: Algorithms and Data Structures (Fall 2020). Instructor: Carl Sturtivant