

# Dung (Daniel) Ngo

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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.

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## EDUCATION

**University of Minnesota**, Minneapolis, MN August 2019 — Present  
Computer Science Ph.D. Student  
Advisors: Steven Wu and Maria Gini

**Dickinson College**, Carlisle, PA August 2015 — May 2019  
Bachelor of Science: Computer Science (*summa cum laude*)  
Bachelor of Science: Mathematics (*summa cum laude*)

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## EMPLOYMENT

**J.P.Morgan AI Research** New York, NY  
*AI Research Summer Associate* Summer 2024

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## PUBLICATIONS

### Conference Proceedings:

- Xinyan Hu\*, **Daniel Ngo\***, Zhiwei Steven Wu, and Aleksandrs Slivkins. *Incentivizing Combinatorial Bandit Exploration*. Neural Information Processing Systems (NeurIPS), 2022.
- Daniel Ngo\***, Giuseppe Vietri\*, and Zhiwei Steven Wu. *Improved Regret for Differentially Private Exploration in LinearMDP*. International Conference on Machine Learning (ICML), 2022.
- 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.
- Daniel Ngo\***, Logan Stapleton\*, Vasilis Syrgkanis, and Zhiwei Steven Wu. *Incentivizing Exploration with Algorithmic Instruments*. International Conference on Machine Learning (ICML), 2021.

### Working Papers:

- Daniel Ngo**, Daniel Scott, Saheed Obitayo, Vamsi K. Potluru, and Manuela Veloso. *Adaptive and Robust Watermark for Generative Tabular Data*. <https://arxiv.org/pdf/2409.14700>
- Ally Yalei Du\*, **Daniel Ngo\***, and Zhiwei Steven Wu. *Reconciling Model Multiplicity for Downstream Decision Making*. <https://arxiv.org/pdf/2405.19667>
- 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>
- 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>
- Jane Hsieh, Angie Zhang, Erik Chou, Mialy Rasetarinera, **Daniel Ngo**, Jason Carpenter, Min Kyung Lee, and Haiyi Zhu. *Supporting Worker Needs and Advancing Policy: Exploring Gig Worker-Centered Data-Sharing Alternatives*

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## AWARDS AND HONORS

**GAGE Fellowship** August 2019, May 2020  
University of Minnesota

**Alpha Lambda Delta** April 2018  
Math honors society, inducted as a junior.

**Upsilon Pi Epsilon** April 2018  
Computer Science honors society, inducted as a junior.

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\*Denotes equal contribution and/or alphabetical ordering

## TALKS

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1. *"Incentivizing Combinatorial Bandit Exploration"*  
INFORMS Annual Meeting (forthcoming 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

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### 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) 2024, 2023, 2022, 2021
- Conference on Neural Information Processing Systems (NeurIPS) 2024, 2023, 2022, 2021

## TEACHING

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