

### EDUCATION

<b>Carnegie Mellon University</b> Machine Learning Ph.D. Student Master of Science - Machine Learning Advisors: <a href="#">Nina Balcan</a> and <a href="#">Steven Wu</a>	Pittsburgh, PA August 2020 - Present 2022
<b>The Pennsylvania State University</b> Bachelor of Science - Computer Science (Mathematics minor) Bachelor of Science - Physics	State College, PA 2019 2019

### EMPLOYMENT

<b>Microsoft Research</b> Research Intern - Economics and Computation	Cambridge, MA Summer 2024
<b>Microsoft Research</b> Research Intern - Economics and Computation	Cambridge, MA Summer 2023
<b>Vitable Health (YC S20)</b> Consultant	Philadelphia, PA Spring 2022

### PUBLICATIONS

#### CONFERENCE PROCEEDINGS:

- Keegan Harris**, Anish Agarwal, Chara Podimata, and Zhiwei Steven Wu. *Strategyproof Decision-Making in Panel Data Settings and Beyond*. ACM SIGMETRICS International Conference on Measurement and Modeling of Computer Systems (SIGMETRICS), 2024.
- Anish Agarwal\*, **Keegan Harris**\*, Justin Whitehouse\*, and Zhiwei Steven Wu\*. *Adaptive Principal Component Regression with Applications to Panel Data*. Neural Information Processing Systems (NeurIPS), 2023.
- Mikhail Khodak\*, Ilya Osadchiy\*, **Keegan Harris**, Maria-Florina Balcan, Kfir Levy, Ron Mier, and Zhiwei Steven Wu. *Meta-Learning Adversarial Bandit Algorithms*. Neural Information Processing Systems (NeurIPS), 2023.
- Keegan Harris**, Chara Podimata, and Zhiwei Steven Wu. *Strategic Apple Tasting*. Neural Information Processing Systems (NeurIPS), 2023.
- Keegan Harris**\*, Ioannis Anagnostides\*, Gabriele Farina, Mikhail Khodak, Zhiwei Steven Wu, and Tuomas Sandholm. *Meta-Learning in Games*. International Conference on Learning Representations (ICLR), 2023.
- Keegan Harris**, Valerie Chen, Joon Sik Kim, Ameeta Talwalkar, Hoda Heidari, and Zhiwei Steven Wu. *Bayesian Persuasion for Algorithmic Recourse*. Neural Information Processing Systems (NeurIPS), 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.
- Keegan Harris**, Hoda Heidari, and Zhiwei Steven Wu. *Stateful Strategic Regression*. Neural Information Processing Systems (NeurIPS), 2021.

#### WORKING PAPERS:

- Keegan Harris**\*, Nicole Immorlica\*, Brendan Lucier\*, Aleksandrs Slivkins\*. *Algorithmic Persuasion Through Simulation*. <https://arxiv.org/pdf/2311.18138.pdf>
- Akshay Krishnamurthy, **Keegan Harris**, Dylan J. Foster, Cyril Zhang, Aleksandrs Slivkins. *Can large language models explore in-context?* <https://arxiv.org/pdf/2403.15371.pdf>
- Daniel Ngo\*, **Keegan Harris**\*, Anish Agarwal, Vasilis Syrgkanis, Zhiwei Steven Wu. *Incentive-Aware Synthetic Control: Accurate Counterfactual Estimation via Incentivized Exploration*. <https://arxiv.org/pdf/2312.16307.pdf>

\*Denotes equal contribution and/or alphabetical ordering

4. **Keegan Harris**, Zhiwei Steven Wu, and Maria-Florina Balcan. *Regret Minimization in Stackelberg Games with Side Information*. <https://arxiv.org/pdf/2402.08576.pdf>

#### MISCELLANEOUS WRITINGS:

1. **Keegan Harris** and Vasilis Syrgkanis. *Causal Inference under Incentives: An Annotated Reading List*. SIGecom Exchanges, June 2024.
2. **Keegan Harris**. *Strategic Instrumental Variable Regression: Recovering Causal Relationships from Strategic Responses*. ML@CMU Blog, September 2021.

#### AWARDS AND HONORS

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<b>SIGMETRICS Student Travel Grant</b> Received funding to present at SIGMETRICS 2024.	2024
<b>Georgia Tech ISyE Junior Researcher</b> Selected to present at the 2024 Georgia Tech ISyE Junior Researcher workshop.	2024
<b>AISTATS Top Reviewer</b> Awarded to top 10% of reviewers for AISTATS 2023.	2023
<b>NDSEG Fellowship</b> Graduate fellowship funded by the United States Department of Defense.	2022
<b>Summa Cum Laude</b> Graduated from Penn State with a perfect 4.00/4 cumulative GPA.	2019
<b>Evan Pugh Senior Scholar Award</b> Awarded to senior Penn State students in the top 0.5% of GPA.	2019
<b>Phi Beta Kappa (Early Induction)</b> Honors society, inducted as a junior.	2018
<b>Sigma Pi Sigma (Early Induction)</b> Physics honors society, inducted as a junior.	2018

#### TALKS

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1. “*Incentive-Aware Synthetic Control: Accurate Counterfactual Estimation via Incentivized Exploration*”  
INFORMS Annual Meeting (*forthcoming* October 2024)  
Ninth Marketplace Innovation Workshop (May 2024)
2. “*Large Language Models as Decision-Making Agents*”  
5th Annual NDSEG Fellowship Conference (*forthcoming* July 2024)
3. “*Marketplace Design for LLM-Based Sales*”  
EC 2024, Workshop on Foundation Models and Game Theory (July 2024, Oral Presentation)
4. “*Memory Constrained In-Context Decision Making*”  
Microsoft Research Lab - New England, EconCS Ideas Day (June 2024)
5. “*Information Design with Predictions*”  
SIGMETRICS 2024, Workshop on Learning-Augmented Algorithms (June 2024)
6. “*Regret Minimization in Stackelberg Games with Side Information*”  
SINTEF, AI for Security & Defense Reading Group (June 2024)  
NeurIPS 2023, Workshop on Multi-Agent Security (December 2023, Spotlight Presentation)
7. “*Towards Bridging Causal Inference and Algorithmic Decision-Making*”  
Microsoft Research Lab - New York City, Machine Learning Discussion Group (April 2024)  
Capital One, Machine Learning Group (April 2024)  
Columbia University, Machine Learning Group (January 2024)
8. “*Algorithmic Persuasion Through Simulation*”  
Georgia Tech, ISyE Junior Researcher Workshop (April 2024)  
Google Research NYC, Algorithms Seminar (January 2024)  
Carnegie Mellon University, Economics Seminar (January 2024)  
Drexel University, EconCS Seminar (October 2023)
9. “*Online Meta-Learning in Games and Bandits*”  
Multi-Agent Learning Seminar (January 2024)  
University of Miami, Industrial and Systems Engineering Seminar (September 2023)

10. “*Algorithmic Decision-Making using Panel Data*”  
 Federal Reserve Bank of Philadelphia, Conference on ML in Economics and Finance (December 2023)  
 Stanford University, Causal Inference Reading Group (November 2023)  
 University of Pennsylvania, Computer Science Theory Seminar (October 2023)  
 University of Miami, Computer Science Seminar (August 2023)  
 Microsoft Research Lab - New England, ML Ideas Seminar (August 2023)
11. “*Strategyproof Decision-Making in Panel Data Settings and Beyond*”  
 INFORMS Annual Meeting (October 2023)  
 Online Causal Inference Seminar (May 2023)  
 Carnegie Mellon University, FEAT Reading Group (November 2022)
12. “*Algorithmic Decision-Making Under Incentives: Apple Tasting Feedback and Multiclass Learnability*”  
 Carnegie Mellon University, Artificial Intelligence Seminar (September 2023)  
 Simons TOC For Fairness Seminar (May 2023)
13. “*Bayesian Persuasion for Algorithmic Recourse*”  
 Tübingen University, Setareh Maghsudi’s Group Meeting (February 2023)  
 3rd Symposium on the Foundations of Responsible Computing (June 2022)  
 AAMAS 2022, Learning with Strategic Agents Workshop (May 2022, Oral Presentation)  
 NeurIPS 2021, Workshop on Human and Machine Decisions (December 2021, Oral Presentation)
14. “*Allocating Opportunities in a Dynamic Model of Intergenerational Mobility*”  
 IJCAI 2022, Best Papers from Sister Conferences Track (July 2022, talk given on behalf of  
 Hoda Heidari and Jon Kleinberg)
15. “*Strategic Instrumental Variable Regression: Recovering Causal Relationships From Strategic Responses*”  
 AAMAS 2022, Learning with Strategic Agents Workshop (May 2022, Oral Presentation)  
 ICML 2021, Workshop on Algorithmic Recourse (July 2021, Spotlight Presentation)
16. “*Decision Making Under Strategic Responses*”  
 Carnegie Mellon University, FATES Summer Series (August 2021)
17. “*Stateful Strategic Regression*”  
 2nd Symposium on the Foundations of Responsible Computing (June 2021)  
 Carnegie Mellon University, FEAT Reading Group (March 2021)

## SERVICE

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### EXTERNAL REVIEWER:

- ACM Conference on Economics & Computation (EC) 2022
- Conference on Neural Information Processing Systems (NeurIPS) 2021
- Innovations in Theoretical Computer Science (ITCS) 2024, 2022
- Symposium on Discrete Algorithms (SODA) 2022
- Symposium on Foundations of Responsible Computing (FORC) 2024
- Symposium on the Theory of Computation (STOC) 2024

### PROFESSIONAL SOCIETIES:

- INFORMS Annual Meeting Session Organizer: Online Marketplaces and Incentives 2024
- Organizer: [SIGecom Seminar Series](#) 2022

### PROGRAM COMMITTEE:

- Conference on Artificial Intelligence and Statistics (AISTATS) 2024, 2023
- Conference on Neural Information Processing Systems (NeurIPS) 2024, 2023, 2022
- International Conference on Learning Representations (ICLR) 2024
- International Conference on Machine Learning (ICML) 2024, 2023, 2022

### UNIVERSITY SERVICE:

- CMU Machine Learning Department Head Search Committee 2024
- CMU Machine Learning Department Speaking Skills Committee 2024
- CMU Machine Learning Ph.D. Admissions Committee 2024, 2023, 2022
- Editor: [ML@CMU Blog](#) 2024
- Head Editor: [ML@CMU Blog](#) 2024
- Mentor: CMU [Paths to AI Research](#) Mentoring Program 2024, 2023, 2022, 2021
- Mentor: CMU [SCS Graduate Application Support Program](#) 2023, 2022, 2020

#### WORKSHOP PROGRAM COMMITTEE:

- Formal Verification of Machine Learning (ICML 2023)
- In-Context Learning (ICML 2024)
- Learning and Decision Making with Strategic Feedback (NeurIPS 2021)
- Learning in Presence of Strategic Behavior (NeurIPS 2021)
- Mathematics of Modern Machine Learning (NeurIPS 2023)
- Privacy-Preserving Artificial Intelligence (AAAI 2024)
- Trustworthy and Socially Responsible Machine Learning (NeurIPS 2022)

#### TEACHING

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- Guest Lecturer: Foundations of Operations Management (Fall 2023). Instructor: [Sridhar Tayur](#)
- Guest Lecturer: Selected Topics in Applied Statistics (Spring 2024). Instructors: [Raaz Dwivedi](#) and [Kyra Gan](#)
- Teaching Assistant: Advanced Topics in Machine Learning Theory (Fall 2022). Instructor: [Nina Balcan](#)
- Teaching Assistant: Operations Management (Fall 2023). Instructor: [Sridhar Tayur](#)
- Teaching Assistant: Service Management (Fall 2023). Instructor: [Sridhar Tayur](#)