

### 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 December 2022
<b>The Pennsylvania State University</b> Bachelor of Science - Computer Science (Mathematics minor; summa cum laude) Bachelor of Science - Physics (summa cum laude)	State College, PA May 2019 May 2019

### EMPLOYMENT

<b>Microsoft Research Lab - New England</b> Research Intern Mentors: <a href="#">Nicole Immorlica</a> , <a href="#">Brendan Lucier</a> , and <a href="#">Alex Slivkins</a>	Cambridge, MA May 2023 - August 2023
<b>Vitable Health (YC S20)</b> Machine Learning Consultant	Philadelphia, PA January 2022 - June 2022

### PUBLICATIONS

#### CONFERENCE PROCEEDINGS:

1. **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.
2. 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.
3. 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.
4. **Keegan Harris**, Chara Podimata, and Zhiwei Steven Wu. *Strategic Apple Tasting*. Neural Information Processing Systems (NeurIPS), 2023.
5. **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.
6. **Keegan Harris**, Valerie Chen, Joon Sik Kim, Ameet Talwalkar, Hoda Heidari, and Zhiwei Steven Wu. *Bayesian Persuasion for Algorithmic Recourse*. Neural Information Processing Systems (NeurIPS), 2022.
7. **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.
8. **Keegan Harris**, Hoda Heidari, and Zhiwei Steven Wu. *Stateful Strategic Regression*. Neural Information Processing Systems (NeurIPS), 2021.

#### WORKING PAPERS:

1. **Keegan Harris**, Nicole Immorlica\*, Brendan Lucier\*, Aleksandrs Slivkins\*. *Algorithmic Persuasion Through Simulation: Information Design in the Age of Generative AI*. <https://arxiv.org/pdf/2311.18138.pdf>
2. Daniel Ngo\*, **Keegan Harris\***, Anish Agarwal, Vasilis Syrgkanis, Zhiwei Steven Wu. *Incentive-Aware Synthetic Control: Accurate Counterfactual Estimation via Incentivized Exploration*. [https://keeganharris.github.io/IE\\_SC.pdf](https://keeganharris.github.io/IE_SC.pdf)
3. **Keegan Harris**, Zhiwei Steven Wu, and Maria-Florina Balcan. *Stackelberg Games with Side Information*. NeurIPS Workshop on Multi-Agent Security, 2023.

\*Denotes equal contribution and/or alphabetical ordering

## AWARDS AND HONORS

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### NDSEG Fellowship

April 2022

Graduate fellowship funded by the United States Department of Defense

### Evan Pugh Senior Scholar Award

May 2019

Awarded to senior Penn State students in the top 0.5% of GPA

### Phi Beta Kappa

April 2018

Honors society, inducted as a junior

### Sigma Pi Sigma

April 2018

Physics honors society, inducted as a junior

## TALKS

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1. “*Algorithmic Persuasion Through Simulation*”  
Google Research NYC, Algorithms Seminar (*forthcoming* January 2024)  
Carnegie Mellon University, Economics Seminar (*forthcoming* January 2024)  
Drexel University, EconCS Seminar (October 2023)
2. “*Online Meta-Learning in Games and Bandits*”  
Multi-Agent Learning Seminar (*forthcoming* January 2024)  
University of Miami, Industrial and Systems Engineering Seminar (September 2023)
3. “*Stackelberg Games with Side Information*”  
NeurIPS 2023, Workshop on Multi-Agent Security (December 2023, Spotlight Presentation)
4. “*Algorithmic Decision-Making using Panel Data*”  
Federal Reserve Bank of Philadelphia (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)
5. “*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)
6. “*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)
7. “*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)
8. “*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)
9. “*Decision Making Under Strategic Responses*”  
Carnegie Mellon University, FATES Summer Series (August 2021)
10. “*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 the Theory of Computation (STOC) 2024

#### PROGRAM COMMITTEE:

- Conference on Artificial Intelligence and Statistics (AISTATS) 2024, 2023 (Top 10% Reviewer)
- Conference on Neural Information Processing Systems (NeurIPS) 2023, 2022
- International Conference on Learning Representations (ICLR) 2024
- International Conference on Machine Learning (ICML) 2024, 2023, 2022

#### SIGECOM:

- **SIGecom Seminar Series** Co-organizer 2022

#### UNIVERSITY SERVICE:

- CMU Machine Learning Ph.D. Admissions Committee 2024, 2023, 2022
- CMU SCS Graduate Application Support Program 2023, 2022, 2020
- CMU Undergraduate AI Mentoring Program 2023, 2022, 2021

#### WORKSHOP PROGRAM COMMITTEE:

- Formal Verification of Machine Learning (ICML 2023)
- 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**
- 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**