

### EDUCATION

<b>Carnegie Mellon University</b> Machine Learning Ph.D. Student Master of Science - Machine Learning Advisors: <b>Nina Balcan</b> and <b>Steven Wu</b>	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: <b>Nicole Immorlica</b> , <b>Brendan Lucier</b> , and <b>Alex Slivkins</b>	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. 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.
2. 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.
3. **Keegan Harris**, Chara Podimata, and Zhiwei Steven Wu. *Strategic Apple Tasting*. Neural Information Processing Systems (NeurIPS), 2023.
4. **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.
5. **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.
6. **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.
7. **Keegan Harris**, Hoda Heidari, and Zhiwei Steven Wu. *Stateful Strategic Regression*. Neural Information Processing Systems (NeurIPS), 2021.

#### PREPRINTS:

1. **Keegan Harris**, Anish Agarwal, Chara Podimata, and Zhiwei Steven Wu. *Strategyproof Decision-Making in Panel Data Settings and Beyond*. <https://arxiv.org/abs/2211.14236>

### AWARDS AND HONORS

<b>NDSEG Fellowship</b> Graduate fellowship funded by the United States Department of Defense	April 2022
<b>Evan Pugh Senior Scholar Award</b> Awarded to senior Penn State students in the top 0.5% of GPA	May 2019
<b>Phi Beta Kappa</b> Honors society, inducted as a junior	April 2018
<b>Sigma Pi Sigma</b> Physics honors society, inducted as a junior	April 2018

\*Denotes equal contribution and/or alphabetical ordering

## TALKS

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1. “*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)
2. “*Online Meta-Learning in Games and Bandits*”  
University of Miami, Industrial and Systems Engineering Seminar (September 2023)
3. “*Algorithmic Decision-Making using Panel Data*”  
University of Miami, Computer Science Seminar (August 2023)  
Microsoft Research Lab - New England, ML Ideas Seminar (August 2023)
4. “*Strategyproof Decision-Making in Panel Data Settings and Beyond*”  
Online Causal Inference Seminar (May 2023)  
Carnegie Mellon University, FEAT Reading Group (November 2022)
5. “*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**)
6. “*Strategic Instrumental Variable Regression: Recovering Causal Relationships From Strategic Responses*”  
ICML 2022, Spotlight (July 2022, Short Talk)  
AAMAS 2022, Learning with Strategic Agents Workshop (May 2022, **Oral Presentation**)  
ICML 2021, Workshop on Algorithmic Recourse (July 2021, **Spotlight Presentation**)
7. “*Decision Making Under Strategic Responses*”  
Carnegie Mellon University, FATES Summer Series (August 2021)
8. “*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

### 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) 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 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)
- Trustworthy and Socially Responsible Machine Learning (NeurIPS 2022)

## TEACHING

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- Teaching Assistant: Advanced Topics in Machine Learning Theory (Fall 2022). Instructor: **Nina Balcan**