

EDUCATION

Carnegie Mellon University	Pittsburgh, PA
<i>Machine Learning Ph.D. Student</i>	<i>August 2020 - Present</i>
<i>Master of Science - Machine Learning</i>	<i>December 2022</i>
Advisors: Nina Balcan and Steven Wu	
The Pennsylvania State University	State College, PA
<i>Bachelor of Science - Computer Science (Mathematics minor)</i>	<i>May 2019</i>
<i>Bachelor of Science - Physics</i>	<i>May 2019</i>
Graduated <i>summa cum laude</i>	

EMPLOYMENT

Microsoft Research Lab - New England	Cambridge, MA
<i>Research Intern</i>	<i>May 2023 - Present</i>
Student researcher with the Economics and Computation group. Host: Alex Slivkins	
Vitable Health	Philadelphia, PA
<i>Machine Learning Consultant</i>	<i>January 2022 - June 2022</i>
Explored the integration of machine learning systems into their existing technology stack.	

PUBLICATIONS

CONFERENCE PROCEEDINGS:

1. **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.
2. **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.
3. **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.
4. **Keegan Harris**, Hoda Heidari, and Zhiwei Steven Wu. *Stateful Strategic Regression*. Neural Information Processing Systems (NeurIPS), 2021.

PREPRINTS:

1. Anish Agarwal*, **Keegan Harris***, Justin Whitehouse*, and Zhiwei Steven Wu*. *Adaptive Principal Component Regression with Applications to Panel Data*. <https://arxiv.org/abs/2307.01357>
2. Mikhail Khodak*, Ilya Osadchiy*, **Keegan Harris**, Maria-Florina Balcan, Kfir Levy, Ron Mier, and Zhiwei Steven Wu. *Meta-Learning Adversarial Bandit Algorithms*. <https://arxiv.org/abs/2307.02295>
3. **Keegan Harris**, Chara Podimata, and Zhiwei Steven Wu. *Strategic Apple Tasting*. <https://arxiv.org/abs/2306.06250>
4. **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

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

*Denotes equal contribution and/or alphabetical ordering

TALKS

1. “*Algorithmic Decision-Making using Panel Data*”
Microsoft Research ML Ideas Seminar (August 2023)
2. “*Strategyproof Decision-Making in Panel Data Settings and Beyond*”
Online Causal Inference Seminar (May 2023)
Carnegie Mellon University, FEAT Reading Group (November 2022)
3. “*Algorithmic Decision-Making Under Incentives: Apple Tasting Feedback and Multiclass Learnability*”
Simons TOC For Fairness Seminar (May 2023)
4. “*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% acceptance rate**)
5. “*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**)
6. “*Decision Making Under Strategic Responses*”
Carnegie Mellon University, FATES Summer Series (August 2021)
7. “*Stateful Strategic Regression*”
2nd Symposium on the Foundations of Responsible Computing (June 2021)
Carnegie Mellon University, FEAT Reading Group (March 2021)

SERVICE

EXTERNAL REVIEWER:

- ACM Conference on Economics & Computation (EC) 2022
- Conference on Neural Information Processing Systems (NeurIPS) 2021
- Innovations in Theoretical Computer Science (ITCS) 2022
- Symposium on Discrete Algorithms (SODA) 2022

PROGRAM COMMITTEE:

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

SIGECOM:

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

UNIVERSITY SERVICE:

- CMU Machine Learning Ph.D. Admissions Committee 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

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