

# Keegan W. Harris

Curriculum Vitae – November 2022

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## EDUCATION

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### Carnegie Mellon University

Machine Learning Ph.D. Student

Master of Science - Machine Learning

Advisors: [Nina Balcan](#) and [Steven Wu](#)

Pittsburgh, PA

August 2020 - Present

December 2022 (expected)

### The Pennsylvania State University

Bachelor of Science - Computer Science (Mathematics minor)

Bachelor of Science - Physics

Graduated *summa cum laude*

State College, PA

May 2019

May 2019

## AWARDS

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### NDSEG Fellowship

Graduate fellowship covering 3 years of tuition and stipend

April 2022

### Evan Pugh Senior Scholar Award

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

May 2019

### Phi Beta Kappa

Penn State chapter, inducted as a junior

April 2018

### President Walker Award

Awarded to first-year Penn State students with a perfect GPA

May 2017

## PUBLICATIONS

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### CONFERENCE PROCEEDINGS:

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

### PREPRINTS:

1. Maria-Florina Balcan, **Keegan Harris**, Mikhail Khodak, and Zhiwei Steven Wu. *Meta-Learning Adversarial Bandits*. <https://arxiv.org/abs/2205.14128> (Alphabetical order)
2. **Keegan Harris\***, Ioannis Anagnostides\*, Gabriele Farina, Mikhail Khodak, Zhiwei Steven Wu, and Tuomas Sandholm. *Meta-Learning in Games*. <https://arxiv.org/abs/2209.14110>
3. **Keegan Harris**, Anish Agarwal, Chara Podimata, and Zhiwei Steven Wu. *Strategyproof Decision-Making in Panel Data Settings*. <https://arxiv.org/abs/2211.14236>

### WORKSHOP PAPERS:

1. **Keegan Harris**, Chara Podimata, and Zhiwei Steven Wu. *Strategy-Aware Contextual Bandits*. NeurIPS 2022 Workshop on Distribution Shifts.

## TALKS

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1. “Strategyproof Decision-Making in Panel Data Settings”  
CMU FEAT Reading Group (November 2022)
2. “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)
3. “Strategic Instrumental Variable Regression: Recovering Causal Relationships From Strategic Responses”  
ICML 2022 Spotlight (July 2022, Short Talk)  
AAMAS Learning with Strategic Agents Workshop (May 2022, **Oral Presentation**)  
ICML Workshop on Algorithmic Recourse (July 2021, **Spotlight Presentation**)

4. “*Bayesian Persuasion for Algorithmic Recourse*”
  - 3rd Symposium on the Foundations of Responsible Computing (June 2022)
  - AAMAS Learning with Strategic Agents Workshop (May 2022, **Oral Presentation**)
  - NeurIPS Workshop on Human and Machine Decisions (December 2021, **Oral Presentation**  
- **6% acceptance rate**)
5. “*Decision Making Under Strategic Responses*”
  - CMU FATES Summer Series (August 2021)
6. “*Stateful Strategic Regression*”
  - 2nd Symposium on the Foundations of Responsible Computing (June 2021)
  - CMU 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) 2022
- Symposium on Discrete Algorithms (SODA) 2022

### PROGRAM COMMITTEE:

- Conference on Artificial Intelligence and Statistics (AISTATS) 2023
- Conference on Neural Information Processing Systems (NeurIPS) 2022
- International Conference on Machine Learning (ICML) 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 2022, 2021

### WORKSHOP PROGRAM COMMITTEE:

- Learning in Presence of Strategic Behavior (NeurIPS) 2021
- Learning and Decision Making with Strategic Feedback (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**