

# Keegan W. Harris

Curriculum Vitae – October 2021

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## EDUCATION

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### Carnegie Mellon University

*Ph.D. Student in Machine Learning; GPA: 4.17/4.00*

Pittsburgh, PA

August 2020 - Present

I am fortunate to be advised by [Hoda Heidari](#) and [Steven Wu](#).

Research interests: algorithmic game theory, economics and computation, online learning

### The Pennsylvania State University

*Bachelor of Science - Computer Science (Mathematics minor); GPA: 4.00/4.00*

State College, PA

June 2016 - May 2019

*Bachelor of Science - Physics; GPA: 4.00/4.00*

June 2016 - May 2019

## CONFERENCE PUBLICATIONS

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

## PREPRINTS AND WORKING PAPERS

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1. **Keegan Harris**, Daniel Ngo, Logan Stapleton, Hoda Heidari, and Zhiwei Steven Wu. *Strategic Instrumental Variable Regression: Recovering Causal Relationships From Strategic Responses*. <https://arxiv.org/abs/2107.05762>
2. **Keegan Harris**, Valerie Chen, Joon Kim, Ameet Talwalkar, Hoda Heidari, and Zhiwei Steven Wu. *Bayesian Persuasion for Algorithmic Recourse*. Manuscript available upon request.

## GRADUATE COURSEWORK

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### ALGORITHMS

- Graduate Algorithms (Spring 2021). Instructor: [Anupam Gupta](#) and [Rashmi Vinayak](#)

### GAME THEORY

- Computational Game Solving (Fall 2021). Instructor: [Gabriele Farina](#) and [Tuomas Sandholm](#)
- Advanced Topics in Machine Learning and Game Theory (Fall 2020). Instructor: [Fei Fang](#)

### MACHINE LEARNING

- Advanced Machine Learning: Theory and Methods (Spring 2021). Instructor: [Pradeep Ravikumar](#)
- Advanced Introduction to Machine Learning (Fall 2020). Instructor: [Nihar Shah](#)

### STATISTICS

- Advanced Statistical Theory II (Fall 2021). Instructor: [Alessandro Rinaldo](#)
- Intermediate Statistics (Fall 2021). Instructor: [Sivaraman Balakrishnan](#)

## TALKS

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1. “*Decision Making Under Strategic Responses*”  
Lightning Talk at 2021 CMU FATES Summer Series (August 2021)
2. “*Strategic Instrumental Variable Regression: Recovering Causal Relationships From Strategic Responses*”  
**Spotlight Presentation** at ICML 2021 Workshop on Algorithmic Recourse (July 2021)  
Poster Presentation at ICML 2021 Workshop on Neglected Assumptions in Causal Inference (July 2021)  
Poster Presentation at ICML 2021 Workshop on Socially Responsible Machine Learning (July 2021)
3. “*Stateful Strategic Regression*”  
Poster Presentation at ICML 2021 Workshop on Algorithmic Recourse (July 2021)  
Poster Presentation at ICML 2021 Workshop on Socially Responsible Machine Learning (July 2021)  
Poster Presentation at EC 2021 (July 2021)  
Presentation at FORC 2021 (June 2021)  
Presentation at CMU FEAT Reading Group (March 2021)

## ACADEMIC SERVICE

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### PEER REVIEW

- ACM-SIAM Symposium on Discrete Algorithms (SODA), 2022
- Neural Information Processing Systems (NeurIPS), 2021
- NeurIPS Workshop on Learning and Decision-Making with Strategic Feedback, 2021

### MENTORING

- CMU Undergrad AI Mentoring Program, 2021
- CMU [Graduate Application Support Program](#), 2020