

# 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*

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)*

State College, PA

*June 2016 - May 2019*

*Bachelor of Science - Physics*

*June 2016 - May 2019*

Graduated *summa cum laude*

## 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*. ICML Workshop on Algorithmic Recourse, 2021.
2. **Keegan Harris**, Valerie Chen, Joon Kim, Ameet Talwalkar, Hoda Heidari, and Zhiwei Steven Wu. *Bayesian Persuasion for Algorithmic Recourse*. NeurIPS Workshop on Human and Machine Decisions, 2021.

## 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. “*Bayesian Persuasion for Algorithmic Recourse*”  
**Oral Presentation** at the NeurIPS 2021 Workshop on Human and Machine Decisions  
(to appear December 2021, **6% acceptance rate**)
2. “*Decision Making Under Strategic Responses*”  
Lightning Talk at 2021 CMU FATES Summer Series (August 2021)
3. “*Strategic Instrumental Variable Regression: Recovering Causal Relationships From Strategic Responses*”  
**Spotlight Presentation** at the ICML 2021 Workshop on Algorithmic Recourse (July 2021)
4. “*Stateful Strategic Regression*”  
Presentation at the Symposium on the Foundations of Responsible Computing (FORC) 2021 (June 2021)

## ACADEMIC SERVICE

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### PEER REVIEW

- Innovations in Theoretical Computer Science (ICTS), 2022
- 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