

# Keegan W. Harris

Curriculum Vitae – February 2022

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## EDUCATION

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### Carnegie Mellon University

*Machine Learning Ph.D. Student*

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

Research interests: algorithmic game theory, bandit algorithms, economics & computation

### The Pennsylvania State University

*Bachelor of Science - Computer Science (Mathematics minor)*

*Bachelor of Science - Physics*

Graduated *summa cum laude*.

Pittsburgh, PA

*August 2020 - Present*

State College, PA

*June 2016 - May 2019*

*June 2016 - May 2019*

## EMPLOYMENT

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### Vitable Health

*Machine Learning Consultant*

Responsible for developing end-to-end data analysis and machine learning pipelines.

Philadelphia, PA

*January 2022 - Present*

## CONFERENCE PUBLICATIONS

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

## WORKSHOP PUBLICATIONS

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

## TALKS

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

## GRADUATE COURSEWORK

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### ALGORITHMS

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

### ECONOMICS

- Information Economics (Spring 2022). Instructor: [James Best](#)

### MACHINE LEARNING

- Advanced Introduction to Machine Learning (Fall 2020). Instructor: [Nihar Shah](#)
- Advanced Machine Learning: Theory and Methods (Spring 2021). Instructor: [Pradeep Ravikumar](#)
- Advanced Topics in Machine Learning and Game Theory (Fall 2020). Instructor: [Fei Fang](#)
- Computational Game Solving (Fall 2021). Instructor: [Gabriele Farina](#) and [Tuomas Sandholm](#)

### OPTIMIZATION

- Modern Convex Optimization (Spring 2022). Instructor: [Javier Peña](#)
- Special Topics in Combinatorial Optimization (Spring 2022). Instructor: [Gerard Cornuejols](#)

## STATISTICS

- Advanced Statistical Theory I (Spring 2022). Instructor: [Sivaraman Balakrishnan](#)
- Advanced Statistical Theory II (Fall 2021). Instructor: [Alessandro Rinaldo](#)
- Intermediate Statistics (Fall 2021). Instructor: [Sivaraman Balakrishnan](#)

## ACADEMIC SERVICE

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### ADMISSIONS

- CMU Graduate Application Support Program (2020)
- CMU Machine Learning Ph.D. Admissions Committee (2022)

### MENTORING

- CMU SCS Mentoring Program (2022)
- CMU Undergraduate AI Mentoring Program (2021)

### REVIEWER

- International Conference on Machine Learning (ICML 2022)
- Innovations in Theoretical Computer Science (ITCS 2022)
- Neural Information Processing Systems (NeurIPS 2021)
- Symposium on Discrete Algorithms (SODA 2022)

### WORKSHOP PROGRAM COMMITTEE

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