

# Keegan W. Harris

Website: [keeganharris.github.io](https://keeganharris.github.io)

Twitter: [@keeganwharris](https://twitter.com/keeganwharris)

Curriculum Vitae – May 2022

CMU Email: [keeganh@cs.cmu.edu](mailto:keeganh@cs.cmu.edu)

Vitable Email: [keegan@vitablehealth.com](mailto:keegan@vitablehealth.com)

## EDUCATION

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### Carnegie Mellon University

*Machine Learning Ph.D. Student*

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

My research is funded by the [NDSEG Fellowship](#).

### 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

*May 2019*

*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*

## PREPRINTS

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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.

## PUBLICATIONS

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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*. International Conference on Machine Learning (ICML), 2022.
2. **Keegan Harris**, Hoda Heidari, and Zhiwei Steven Wu. *Stateful Strategic Regression*. Neural Information Processing Systems (NeurIPS), 2021.

## TALKS

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1. “*Bayesian Persuasion for Algorithmic Recourse*”  
AAMAS Learning with Strategic Agents Workshop (May 2022, **Oral Presentation**)  
NeurIPS Workshop on Human and Machine Decisions (December 2021, **Oral Presentation**)
2. “*Strategic Instrumental Variable Regression: Recovering Causal Relationships From Strategic Responses*”  
AAMAS Learning with Strategic Agents Workshop (May 2022, **Oral Presentation**)  
ICML Workshop on Algorithmic Recourse (July 2021, **Spotlight Presentation**)
3. “*Decision Making Under Strategic Responses*”  
CMU FATES Summer Series (August 2021)
4. “*Stateful Strategic Regression*”  
2nd Symposium on the Foundations of Responsible Computing (June 2021)  
CMU FEAT Reading Group (March 2021)

## GRADUATE COURSEWORK

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- Advanced Introduction to Machine Learning (Fall 2020). Instructor: [Nihar Shah](#)
- Advanced Machine Learning: Theory and Methods (Spring 2021). Instructor: [Pradeep Ravikumar](#)
- Advanced Statistical Theory I (Spring 2022). Instructor: [Sivaraman Balakrishnan](#)
- Advanced Statistical Theory II (Fall 2021). Instructor: [Alessandro Rinaldo](#)
- Advanced Topics in Machine Learning and Game Theory (Fall 2020). Instructor: [Fei Fang](#)
- Computational Game Solving (Fall 2021). Instructor: [Gabriele Farina](#) and [Tuomas Sandholm](#)
- Graduate Algorithms (Spring 2021). Instructor: [Anupam Gupta](#) and [Rashmi Vinayak](#)
- Information Economics (Spring 2022). Instructor: [James Best](#)
- Intermediate Statistics (Fall 2021). Instructor: [Sivaraman Balakrishnan](#)
- Modern Convex Optimization (Spring 2022). Instructor: [Javier Peña](#)

## ACADEMIC SERVICE

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- CMU Graduate Application Support Program (2020)
- CMU Machine Learning Ph.D. Admissions Committee (2022)
- CMU Undergraduate AI Mentoring Program (2021)
- Conference Reviewer: EC (2022), ICML (2022), ITCS (2022), NeurIPS (2022, 2021), SODA (2022)
- Workshop Reviewer: Learning in Presence of Strategic Behavior (NeurIPS 2021), Learning and Decision-Making with Strategic Feedback (NeurIPS 2021)

## AWARDS

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### **NDSEG Fellowship**

*April 2022*

Graduate fellowship covering 3 years of full tuition and stipend