

Keegan W. Harris

Curriculum Vitae – January 2022

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Vitable Email: keegan@vitablehealth.com

EDUCATION

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

Vitable Health

Machine Learning Consultant

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

Philadelphia, PA

January 2022 - Present

CONFERENCE PUBLICATIONS

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

WORKSHOP PUBLICATIONS

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

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

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

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