Keegan W. Harris

Curriculum Vitae – December 2021

Website: keeganharris.github.io
Link to Google Scholar
Email: keeganh@cs.cmu.edu
Twitter: @keeganwharris

Education

Carnegie Mellon University — Pittsburgh, PA
Ph.D. Student in Machine Learning — *August 2020 - Present*
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 — State College, PA
Bachelor of Science - Computer Science (Mathematics minor) — *June 2016 - May 2019*
Bachelor of Science - Physics — *June 2016 - May 2019*
Graduated *summa cum laude*

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 2021 Workshop on Human and Machine Decisions (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)

Graduate Coursework

Algorithms

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

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

Statistics

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

Academic Service

- Admissions Committee: CMU Machine Learning PhD Program (2022)
- Mentor: CMU Undergrad AI Mentoring Program (2021), CMU Graduate Application Support Program (2020)
- Program Committee: NeurIPS Learning in Presence of Strategic Behavior Workshop (2021), NeurIPS StratML Workshop (2021)
- Reviewer: ITCS (2022), NeurIPS (2021), SODA (2022)
- Student Volunteer: NeurIPS (2021)