Keegan W. Harris

Website: keeganharris.github.io
Link to Google Scholar

Curriculum Vitae – December 2021

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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 II (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)