Keegan W. Harris

Curriculum Vitae – May 2022

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Education

Carnegie Mellon University — Pittsburgh, PA
Machine Learning Ph.D. Student — *August 2020 - Present*
I am fortunate to be advised by Steven Wu and Hoda Heidari.
My research is funded by the NDSEG Fellowship.

The Pennsylvania State University — State College, PA
Bachelor of Science - Computer Science (Mathematics minor) — *May 2019*
Bachelor of Science - Physics — *May 2019*
Graduated *summa cum laude*.

Employment

Vitable Health — Philadelphia, PA
Machine Learning Consultant — *January 2022 - Present*
Responsible for developing end-to-end data analysis and machine learning pipelines.

Preprints

1. Maria-Florina Balcan*, **Keegan Harris***, Mikhail Khodak*, Zhiwei Steven Wu*. *Meta-Learning Adversarial Bandits.*

2. **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

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

1. "*Bayesian Persuasion for Algorithmic Recourse*"
   3nd Symposium on the Foundations of Responsible Computing (to appear, June 2022)
   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

- 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

*Authors listed in alphabetical order.

- Information Economics (Spring 2022). Instructor: James Best
- Intermediate Statistics (Fall 2021). Instructor: Sivaraman Balakrishnan
- Modern Convex Optimization (Spring 2022). Instructor: Javier Peña

Academic Service

- 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

NDSEG Fellowship *April 2022*
Graduate fellowship covering 3 years of full tuition and stipend