

Keegan W. Harris

Curriculum Vitae – September 2022

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[Link to Google Scholar](#)

Email: keeganh@cs.cmu.edu

EDUCATION

Carnegie Mellon University

Machine Learning Ph.D. Student

Advisors: [Hoda Heidari](#) and [Steven Wu](#)

Research interests: machine learning, game theory, econometrics

Pittsburgh, PA

August 2020 - Present

The Pennsylvania State University

Bachelor of Science - Computer Science (Mathematics minor)

Bachelor of Science - Physics

Graduated *summa cum laude*

State College, PA

May 2019

May 2019

PUBLICATIONS

1. **Keegan Harris**, Valerie Chen, Joon Sik Kim, Ameet Talwalkar, Hoda Heidari, and Zhiwei Steven Wu. *Bayesian Persuasion for Algorithmic Recourse*. Neural Information Processing Systems (NeurIPS), 2022. (Contributational order)
2. **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. (Contributational order)
3. **Keegan Harris**, Hoda Heidari, and Zhiwei Steven Wu. *Stateful Strategic Regression*. Neural Information Processing Systems (NeurIPS), 2021.

PREPRINTS

1. Maria-Florina Balcan, **Keegan Harris**, Mikhail Khodak, and Zhiwei Steven Wu. *Meta-Learning Adversarial Bandits*. ICML Workshop on Adaptive Experimental Design and Active Learning in the Real World, 2022.

AWARDS AND HONORS

NDSEG Fellowship

Graduate fellowship covering 3 years of tuition and stipend

April 2022

Evan Pugh Senior Scholar Award

Awarded to senior Penn State students in the top 0.5% of GPA

May 2019

Phi Beta Kappa

Penn State chapter, inducted as a junior

April 2018

President Walker Award

Awarded to all first-year Penn State students with a 4.00 GPA

May 2017

EMPLOYMENT

Vitable Health

Machine Learning Consultant

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

Philadelphia, PA

January 2022 - June 2022

TALKS

1. “Allocating Opportunities in a Dynamic Model of Intergenerational Mobility”
IJCAI 2022 Best Papers from Sister Conferences Track (July 2022, talk given on behalf of Hoda Heidari and Jon Kleinberg)
2. “Strategic Instrumental Variable Regression: Recovering Causal Relationships From Strategic Responses”
ICML 2022 Spotlight (July 2022, Short Talk)
AAMAS Learning with Strategic Agents Workshop (May 2022, **Oral Presentation**)
ICML Workshop on Algorithmic Recourse (July 2021, **Spotlight Presentation**)
3. “Bayesian Persuasion for Algorithmic Recourse”
3rd Symposium on the Foundations of Responsible Computing (June 2022)
AAMAS Learning with Strategic Agents Workshop (May 2022, **Oral Presentation**)
NeurIPS Workshop on Human and Machine Decisions (December 2021, **Oral Presentation**)
- **6% acceptance rate**

4. “*Decision Making Under Strategic Responses*”
CMU FATES Summer Series (August 2021)
5. “*Stateful Strategic Regression*”
2nd Symposium on the Foundations of Responsible Computing (June 2021)
CMU FEAT Reading Group (March 2021)

TEACHING

- Teaching Assistant: Advanced Topics in Machine Learning Theory (Fall 2022). Instructor: [Maria-Florina Balcan](#)

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](#)
- Foundations of Causal Inference (Fall 2022). Instructor: [Edward Kennedy](#)
- Graduate Algorithms (Spring 2021). Instructor: [Anupam Gupta](#) and [Rashmi Vinayak](#)
- Information Economics (Spring 2022). Instructor: [James Best](#)
- Intermediate Statistics (Fall 2021). Instructor: [Sivaraman Balakrishnan](#)
- Machine Learning in Practice (Fall 2022). Instructor: [Rayid Ghani](#)
- Microeconomic Theory (Fall 2022). Instructor: [Stephen Spear](#)
- Modern Convex Optimization (Spring 2022). Instructor: [Javier Peña](#)

PROFESSIONAL ACTIVITIES

CONFERENCE REVIEWING:

- ACM Conference on Economics & Computation (EC) 2022
- Conference on Neural Information Processing Systems (NeurIPS) 2022, 2021
- Innovations in Theoretical Computer Science (ITCS) 2022
- International Conference on Machine Learning (ICML) 2022
- Symposium on Discrete Algorithms (SODA) 2022

OTHER CONFERENCE SERVICE:

- EC Virtual Session Chair 2022
- ICML Backup Session Chair 2022
- NeurIPS Student Volunteer 2021

SIGECOM:

- SIGecom Seminar Series Co-organizer 2022
- Student Member 2022, 2021

UNIVERSITY SERVICE:

- CMU Graduate Application Support Program 2020
- CMU Machine Learning Ph.D. Admissions Committee 2022
- CMU Undergraduate AI Mentoring Program 2021

WORKSHOP REVIEWING:

- Learning in Presence of Strategic Behavior (NeurIPS) 2021
- Learning and Decision Making with Strategic Feedback (NeurIPS) 2021