

Keegan W. Harris

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Education

The Pennsylvania State University | University Park, PA | June 2016 – May 2019

- B.S., Computer Science, *summa cum laude*
- B.S., Physics, *summa cum laude*
- Minor, Mathematics

State University of New York at Buffalo | Buffalo, NY | July 2015 – May 2016

- Member of NCAA Division I wrestling team

Research Experience

Intern | Robotics Institute | February 2020 - Present

- Currently developing an algorithm to recover utility function parameters of agents playing a normal-form game using online Bayesian nonparametric clustering methods to improve sample efficiency
- Research Advisors: Fei Fang, Ding Zhao

Intern | Robotics Institute | September 2019 – January 2020

- Designed an algorithm capable of solving physical reasoning tasks in the PHYRE physics testbed by combining parametric and memory-based learning
- Research Advisor: Chris Atkeson

Intern | U.S. Naval Research Laboratory | June 2019 – August 2019

- Used the Robot Operating System to develop a multitasking framework for combined task and motion planning for the DRC-HUBO humanoid robot
- Research Advisor: Laura Hiatt

Undergraduate Researcher | Penn State University | January 2019 – June 2019

- Developed a model for predicting the aerodynamic force, moment, and power of flapping flight based on a Gaussian Process and trained using Computational Fluid Dynamics simulation data for a wide range of flapping wing kinematics
- Bayiz, Y., **Harris, K.**, Pan, Y., Dong, H., & Cheng, B. (2019). Physics-informed Predictive Model of Flapping Flight Aerodynamics using Gaussian Process Regression. *Bulletin of the American Physical Society*.
- Research Advisor: Bo Cheng