Michael Truell

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EDUCATION

Horace Mann School, Bronx, NY

Class of 2018

· 4.0 Unscaled GPA

EXPERIENCE

Research Intern, MIT Probabilistic Computing Group

June 2017 - August 2017

- · Software engineering on a low-latency Bayesian non-parametric inference engine
- · Worked to extend the abilities of the lab's BayesDB probabilistic computing platform
- · Member of the RSI program; recognized as a Department of Defense Scholar

Software Engineering Intern, Two Sigma Investments

June 2016 - March 2017

- · Co-founded and co-developed Two Sigma's "Halite" online programming competition (https://halite.io)
- · Competition drew 7,000+ users from 110 countries who submitted 50,000+ unique bots
- · Project attracted 60+ individual contributors on Github
- · Two Sigma's first high school intern (age of 15)

Independent Reinforcement Learning Researcher

June 2015 - May 2016

- · Augmented the Q-learning algorithm with intelligent action and model selection
- · System learned desired actions from human operators in minutes
- · Algorithm 4x less data than Q-learning based implementations
- · Spun of codebase into an open-source library; gained 350+ stars

AWARDS & HONORS

Intel ISEF Grand Award: Second Award in Robotics and Intelligent Machines

Intel ISEF Special Award: Second Award, National Aeronautics and Space Administration (NASA)

Intel ISEF Special Award: First Award, CERN (award included a week at the CERN campus)

New York City Science and Engineering Fair (NYCSEF): First Prize in Computer Science

Intel Excellence in Computer Science Award

American Computer Science League Perfect Programming Score at Nationals

ACTIVITIES & LEADERSHIP

Horace Mann FRC Robotics, Head of Programming and Electronics	2015 - 2017
Horace Mann American Computer Science League, Co-captain	2015 - 2017
Horace Mann Programming Club, Co-captain	2015 - 2017

PUBLICATIONS

Truell, M., Spector, B. (2017). The Design and Implementation of Modern Online Programming Competitions. Submitted to the Foundations of Digital Games Conference 2018.

Truell, M., Gruenstein, J. (2016). A Universal Robot Control System Using Reinforcement Learning with Limited Feedback. Poster presented at ISEF 2016, Phoenix, Arizona.

SKILLS

Software	Python, Java, C++, PHP, JS, HTML, Angular, LAMP, Flask, Docker
Hardware	OpenSCAD, AVR, ESP8266, NI
Machine Learning	Reinforcement Learning, Evolutionary Algorithms, Bayesian Nonparametrics