

AARON YAO-SMITH

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EDUCATION

Cornell University, *Ithaca, NY*

Intended B.S. in Computer Science, May 2021

GPA: 3.82 of 4.00

Belmont High School, *Belmont, MA*

Diploma, May 2017

COURSEWORK

Data Structures & Functional Programming • Discrete Structures • Introduction to Data Science

Waves and Thermal Physics, Honors • Electronic Materials for the Information Age • Mathematical Physics

EXPERIENCE

Department of Biostatistics, Dana-Farber Cancer Institute

Research Assistant

May 2018 - Present

Boston, MA

- Head author and primary designer/developer of independent research project, under academic guidance
- Apply statistical tests and analysis to large single-cell RNA sequencing datasets (e.g. Human Cell Atlas) using Python
- Interviewed and trained new full-time researchers to aid project during academic year, after grant proposal was accepted
- Abstract was accepted for presentation at Single Cell Genomics 2018 conference, scheduled for October 2018 at the Broad Institute of MIT and Harvard

AIDE Design Software Team, AguaClara Cornell

Developer

September 2018 - Present

Ithaca, NY

- Parameterize water treatment plant CAD specifications based on water needs of individual Honduran communities, bypassing contractors and reducing cost; decreasing barrier of entry for communities with scarce resources

Department of Marketing, Northeastern University

Research Assistant

May - August 2018

Boston, MA

- Developed web interface implementation of psychological study using Python framework
- Collated specification demands across a large research group with representation from several universities
- Deployed study to preliminary experiment of 300 subjects
- Trained new full-time researchers to later deploy to larger audience using Amazon Mechanical Turk

Addgene

Intern

June - August 2017

Cambridge, MA

- Addgene is a nonprofit plasmid repository facilitating exchanges between 3500 research labs worldwide
- Initiated development of high school level teaching kit aimed at current research topics (e.g. CRISPR)
- Liaisoned with local high schools to collect teacher feedback and improve product
- Prepared specialized DNA packages in teams for shipment to locations with extreme import regulations

SKILLS

Python (pandas, sklearn) • Unix • Agile • JavaScript • HTML • CSS • Java • C++ • VBA • MATLAB • OCaml

LEADERSHIP & HONORS

Team 6731, FIRST Robotics

Co-Founder and Quantitative Design Lead

NE District Rookie Inspiration Award, 2017

NE District Rookie All Star Award, 2017

National Merit Scholarship

James E. Casey Scholarship Winner, 2017

WGBH High School Quiz Show Season 8

State Qualifier, 2017

ACTIVITIES

AIDE Design Software Team, AguaClara Cornell • Cornell Taiwanese American Society • Cornell Kendo Club