

Eagle Yuan

Portfolio: github.com/eagleyuan21

Personal Website:

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WORK EXPERIENCE

Northeastern University Sociology and Anthropology Department

September 2019 – Present

Research Assistant

Boston, MA

- Use a social network approach and data scrapping strategies to study the diffusion of innovative ideas on systemic change and gender equity among NSF ADVANCE grantees and beyond.
- Collect data through internet access of websites, journals, conference materials and organize data in Google spreadsheets.
- Handle software programs for statistical, network analysis and visualization tools including coding in Python, MATLAB, and R.

Oak Ridge National Laboratory, Center for Nanophase Materials Sciences

June 2018 – May 2019

Research Intern

Oak Ridge, TN

- Used Agent-Based Modeling techniques to mimic the collective mechanics of the eating behavior of Black Soldier Fly Larvae.
- Implemented a genetic algorithm to calibrate and optimize parameters in the Agent-Based Model.
- Completely coded and tested the model and made posters with another research intern under the guidance of a mentor.
- Southern Appalachian Science and Engineering Fair (affiliated regional fair of ISEF) 4th Place award.

VOLUNTEER EXPERIENCE

Children's Museum of Oak Ridge

Summers 2014 - 2017

Camp Counselor Assistant

Oak Ridge, TN

- Assisted summer camp counselors in supervising campers (PreK to 4th grade)
- Maintenance of the museum, such as painting, cleaning, and garden work
- Combined over 300 hours of volunteering time, awarded The President's Volunteer Service Award Gold 2015

EDUCATION

Northeastern University

Expected May 2023

BS, Computer Engineering and Computer Science

Boston, MA

- University Honors College, Honor's Early Research Award Recipient, Dean's List, 3.91/4.0 GPA
- Coursework: Differential Equations and Linear Algebra, Engineering 1 and 2, Fundamentals of CS 1, Discrete Math, Probability and Statistics
- Activities: Code4Community Mentee, Northeastern Symphony Violinist

Oak Ridge High School

May 2019

High School Diploma with Honors

Oak Ridge, TN

- National Honor Society, National AP Scholar; ACT Combined: 35; 4.0/4.0 Unweighted GPA
- Coursework: AP Chemistry (4), AP Calculus BC (5), Linear Algebra, Multivariable Calculus, Differential Equations, AP Physics C (5 on both), AP Computer Science A (5)
- Activities: Math Club, Scholars Bowl, Tennessee All State Orchestra Violinist, Varsity Soccer

SKILLS & INTERESTS

- **Skills:** Java, Python, C++, GIT, MATLAB, Windows/Mac/Linux OS, SolidWorks, Microsoft Office, Arduino, AutoCAD, Maple, Netlogo, Soldering, HTML, CSS, Conversant in Chinese and Spanish
- **Interests:** Math, Robotics, Space Exploration, Artificial Intelligence Software, Physics, Violin, Soccer