

Eagle Yuan

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Portfolio: github.com/eagleyuan21

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EXPERIENCES

National Aeronautics and Space Administration

May 2020 – July 2020

L'Space Mission Concept Academy Trainee

Virtual

- Gathered NASA mission development skills during weekly training from NASA scientists and engineers.
- Collaborated as the lead engineer with other trainee members on designing an interdisciplinary Lucy probe mission related team project.
- Produced a preliminary design review for a new, large payload targeted towards exploring an alternative landing site from NASA's Perseverance Mars Rover site selection
- Prepared for future work by attending meetings with NASA leaders and personnel through the student pipeline accelerator for NASA's Lucy mission to be the first probe to explore the Trojan asteroid belt.

Northeastern University Sociology and Anthropology Department

September 2019 – May 2020

Research Assistant

Boston, MA

- Used 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.
- Collected data through internet access of websites, journals, conference materials and organize data in Google spreadsheets.
- Handled 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.
- Developed and tested the model and presented posters with the collaboration of another intern and a mentor.
- Southern Appalachian Science and Engineering Fair (affiliated regional fair of ISEF) 4th Place award, planned Journal Submission Fall 2020.

EDUCATION

Northeastern University

Expected May 2023

BS, Major in Computer Engineering and Computer Science, Minor in Mathematics

Boston, MA

- University Honors College, Honor's Early Research Award Recipient, Dean's List; 3.91 GPA
- Coursework: Engineering 1 and 2, CS 1, Discrete Math, Probability and Statistics, Embedded Design
- 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; 4.69 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/C++, MATLAB, FPGA Programming, Verilog, GIT, HTML, CSS, JavaScript, Windows/Mac/Linux OS, SolidWorks, Microsoft Office, Arduino, AutoCAD, Netlogo, Soldering, NX
- **Interests:** Math, Robotics, Space Exploration, Artificial Intelligence Software, Physics, Violin, Soccer