

EDUCATION

University of Richmond Richmond, VA
Bachelor of Science in Mathematics and Computer Science with concentration in Data Science and Statistics
Major GPA: 4.00/4.00, **Cumulative GPA:** 3.92/4.00 (top 5%) May 2022
Honors: Dean's List of Year 2018-2020, All A Grades for Year 2018-2020
Relevant Coursework: Data Science, Linear Algebra, Advanced Linear Algebra, Advanced Calculus, Algorithms, Data Structures, Discrete Structures, Software System Development, Human-Computer Interaction

University of Oxford Oxford, UK
Visiting Student in Mathematics: Probability, Statistics and Data Analysis, Constructive Mathematics June 2021

RESEARCH EXPERIENCE

University of Richmond Department of Computer Science Richmond, VA
Summer Research Fellowship May 2020 - July 2020

- Learned the basics of Deep Learning by reading an MIT textbook and finishing an online course from NYU
- Researched on past papers on the architectures and algorithms of text and tweets classifications in a team of three

University of Richmond Department of Math Richmond, VA
Summer Research Fellowship May 2019 - July 2019

- Programmed in Mathematica and its application on images, audios, and numerical data in order to do examples with frames and wavelet transform
- Presented our results on image denoising, data compression, and data transform on a weekly basis

WORK EXPERIENCE

University of Richmond Department of Math Richmond, VA
Teaching Assistant August 2021 - Present

- Grade weekly quizzes and make keys via LaTeX to guide students with their work
- Hold weekly office hours for a class of 50 with concepts reviewing and answering questions
- Arrange a GroupMe group chat for the class to offer extra help with homework and tests

University of Richmond Technology Learning Center Richmond, VA
Manager March 2019 - Present

- Created a mentorship program to improve retention and training in new employees and provided new leadership roles in the team
- Assigned job duties to over 20 student workers to build up a more collaborative and efficient working system
- Handled problems escalated from the employees and technical issues in the lab and provided teaching to faculty, staff, and students in form of small groups and one-on-one

Orbbec 3D Technology Guangdong, China
Algorithm Intern June 2021 - August 2021

- Built a digit recognition model and a tester for disparity estimation networks in Python
- Drew depth maps with simplified Stereo Net and studied more recent papers on Stereo Matching
- Adjusted the network structure and loss calculation function to achieve a 17% better accuracy in the disparity figure

Daya Bay Power Plant Guangdong, China
Robotics Intern August 2017

- Wrote a program for an emergency response robot to control his arms with angles and to walk inside the walls automatically regarding its distance to the wall with the data transferred from scanner
- Tested the robot's ability to open and close the doors and climb up and down the stairs in a simulated Power Plant
- Collaborated in a team of 30 software engineers and researched on a more efficient solution for the robot

TECHNICAL SKILLS

Programming Languages: Python, Java, SQL, R, C++, MATLAB, MongoDB
Softwares: Tableau, Excel, Premiere Pro, Audacity, Photoshop, Final Cut Pro