

Alex Zheng

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EDUCATION

University of Massachusetts Amherst

B.S. in Computer Science

GPA: 3.90/4.00

Anticipated Graduation May 2023

Programming with Data Structures, Algorithms, Artificial Intelligence, Web Programming, Reasoning Under Uncertainty, Multivariate Calculus, Computational Physics

TECHNICAL SKILL AND INTERESTS

Software Languages

C, Java, LaTeX, JavaScript, SQL, Python, Linux

Languages

English, Chinese

Interests

Statistics, Machine Learning, Cybersecurity, Data Management, Compression

WORK EXPERIENCE

Research Assistant - Wireless Signaling, Amherst, MA

Sept 2020 - present

Advisor: Jie Xiong, University of Massachusetts Amherst

- Familiarized the smart sensing devices as well as the range estimation algorithm used to extract the information from the simulation
- Researched the extraction of IQ signals to track targets from acoustic signals

Research Assistant - Soft Matter Physics, Amherst, MA

Jan 2020 - Jun 2020

Advisor: Manasa Kandula, University of Massachusetts Amherst

- Captured images of active colloids under microscope and used computational methods to solve for an equation that calculates colloids position as a function of time
- Researched about charged spheres and rods and discovered flow around objects in a given solvent specifically when they collide with other charged spheres and rods

Math & English K-12 Tutor - KUMON, Sharon, MA

Mar 2016 - Aug 2019

- Tutored and assisted students from K-12 in Mathematics and English
- Prepared student files and daily class work
- Organized, graded, and recorded grades for complete homework

EXTRACURRICULAR ACTIVITIES

Member - Society for Physic Students, Amherst, MA

Sept 2019 - Jun 2020

- Participated in events held throughout the semester
- Expanded network with professors in the Physics Department

STEM Ambassadors Program, Amherst, MA

Sept 2019 - Jun 2020

- Expanded connections and network to people outside the campus
- Mentored by graduate students that are currently studying on campus