

ZHIJING WU

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EDUCATION

Phillip Exeter Academy

Specializes in Computer Science and Mathematics. GPA: 9.88/11.

Exeter, NH

09/2020 – 05/2022

Experience

BISC Global

BISC Global is a leading company in the field of Bioinformatics and Biostatistics

Cambridge, MA

Fall 2021

Machine Learning Project

- Developed Machine Learning framework using Python and TensorFlow for uncertainty analysis, quantification and diagnostic in Psychiatry. Purpose of project was to predict the relative health status of an individual in different psychiatric disease states, and will serve as an input into ongoing BISC research and development efforts.

4Schoolers LLC

4Schoolers is an education technology company which provides supplemental education to domestic and international students

Brookline, MA

Summer 2021

Software Engineer Intern

- Designed and wrote code for the implementation of a student teacher management system that is currently deployed on the company's website. In the process, I learned how to operate in Python Django, including SQL, HTML, CSS, and Javascript.
- Website was launched Summer 2021 and grew from zero to 500 operations / week.

Harvard Medical School

Summer Research Student

Cambridge, MA

Summer 2020

- Supported the construction of a bioinformatics pipeline using Python, high-performance computing, and SkLearn, a program capable of screening large libraries of therapeutic compounds to identify lead compounds.
- Worked with the principal investigator to develop a predictive model that automated feature selection. I used a method with features represented by both 1-D smiles and standard RDKit fingerprints.
- Helped to develop statistical analysis for how to effectively select candidates that exhibit the desired biological and physicochemical properties.

Extracurricular Activities

Math Instructor (Phillips Exeter Elementary, GKB Academy Kazakhstan, Greater Boston, BISB)

2018 – Present

Promoted mathematics to students across the world.

- Taught math to pupils from the Exeter Elementary Schools.
- Volunteered to teach mathematics for kids of front-line doctors and nurses during COVID's outbreak.
- Prepared gifted students from low-income families at GKB academy in Kazakhstan specializing in Competitive Math, Physics, CS, Chemistry and Biology. Nearly half of all the students representing Kazakhstan in international competition are students of GKB.
- As a Competitive Math Instructor taught AMC 8, 10, and 12 to students at British International School of Boston.

Wharton Investment Competition Club, Phillips Exeter Team

Founder

Exeter, NH

Summer 2019

- Created and organized investment team for the Wharton Investment Competition

Hospitals (Mass General Brigham, St. Elizabeth Medical Center, South Shore and Winchester)

Boston, MA

March - July 2020

Volunteer

- Established connections back home from China to distribute tens of thousands of masks and personal protected equipment for hospitals in Boston at the start of the Covid pandemic.
- Recognized on in on Boston News 7 for charity efforts (<https://whdh.com/news/students-from-china-using-connections-to-order-masks-for-mass/>)

Languages: English – Fluent, Mandarin - Native

Awards: AMC 12 (TOP 1 % Honor roll), AIME (TOP 1%), USAMO (14/42).

Skills: Python, Django, Java, Processing, Machine Learning, NumPy, Pandas, SKLearn, Matplotlib, Math Olympiads