

# ALICE LIU

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## EDUCATION

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### Boston Latin School

Boston, MA

Exam School; College Preparatory Curriculum, Class of 2022

Course load includes Advanced Placement classes

GPA: 4.0 (unweighted); Boston Latin School Approbation with Distinction - No grades below A- (All Terms, 2018-Present)

## EXPERIENCE

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### Co-founder - [Anaxa](#)

April 2020 – Present

A B2B solution combining quantum hardware and blockchain for secure and latent-free storage of health data records

- Member of the DMZ Basecamp Accelerator at Ryerson University (June 2020 - August 2020)
- Member of the Biomedical Zone BACE Incubator (January 2021 - Present)
- Pitched at McKinsey's Early Stage Investor Conference 2020 (December 9, 2020)

### Machine Learning Intern - Apollo Neuroscience

June 2020 – Present

- Data modeling and analysis about heart rate variability and sleep quality patterns based on 2019-20 Apollo wearable data

### Event Coordinator - [Q-munity Tech](#)

September 2020 – Present

- Coordinator for quantum hackathons, workshops and conferences in Q-munity, a student-led organization aiming to educate today's youth about quantum computing and other emerging technologies
- Organized and hosted the [Vision 2020 Conference](#)

### Research Intern - AloeVR

June 2020 – August 2020

- Built the curriculum and lessons for AloeVR's VR mindfulness strategy programs in a school classroom setting

### Consultant - Kidogo

November 2019 - December 2019

- Built recommendation deck for Kidogo to improve the quality and affordability of childcare in Nairobi, Kenya with aeroponics and a fundraising pledge

### Consultant - Techstars

March 2020 - April 2020

- Pitched recommendation to Techstars, a startup accelerator program based in 100+ countries, on increasing the inbound of mentors with a matching algorithm, recruitment chatbot, communication platform; solutions were implemented in 2020 program

### STEM Program Intern - Mothers for Justice and Equality (MJE)

June 2018 – August 2018

- Instructed lessons and provided guidance to middle school students with their STEM projects on combating climate change

## SPEAKING / MEDIA

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**Quantum Machine Learning: Cell Classification**, 2020 Newton Innovation Showcase. Invited Speaker (November 18, 2020)

**Quantum Machine Learning Applications**, [2020 BostInno State of Innovation](#): Leaders of Tomorrow Conference. Invited Panelist (August 26, 2020)

**Quantum IoT and Security: A Quantum Internet**, 2020 TD Tech Connect Conference. Invited Panelist (August 11, 2020)

**Quantum Computing and Machine Learning**, 2020 TD Tech Camp. Invited Speaker (August 4, 2020)

## HONORS AND ACTIVITIES

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### STEM

#### Quantum Machine Learning Developer

- Developed quantum machine learning projects for applications in the healthcare and financial industries, mainly:
  - Quantum support vector machines (qSVMs) for binary classification of breast cancer cells
  - Quantum amplitude estimation (QAE) algorithm for credit risk analysis. Pitched to MIT Media Labs (2019)
  - Quantum annealing and turn ancilla encoding on a 2D lattice as a method of solving the protein folding problem
- Proficient in QISKIT, Cirq, Q# quantum programming languages

**Technical Writing**: 15+ [Medium Articles](#) with 20k+ reviews; featured on the DataSeries Publication

#### Member of The Knowledge Society, TKS (2019-Present)

- Research and development in AI, quantum computing, blockchain and VR/AR

#### Member of The Leukemia and Lymphoma Society - Team LLS East to West (2020-Present)

#### Boston Latin School Math Team (2018-Present)

#### Boston Latin School Science Team (2019-Present)

#### Boston Science Fair, 2nd Place (2017, 2018)

#### Nomination in Broadcom MASTERS International science and engineering competition (2017, 2018)

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## BUSINESS

**DECA**; Officer (2019-Present)

- DECA Internationals (ICDC): *Contestant*, Principles of Finance (2020)
- DECA States: *2nd Place*, Principles of Finance (2020)
- DECA Districts: *2nd Place*, Principles of Finance (2019)

**Boston Latin School Business Club**; Vice President (2020-Present)

**Junior Achievement (JA) Company Program** - Sales team member at company ReVolt (2019-2020)

- 2020 Northern New England JA Pitch Competition, *1st Place*. Nationals contestant

## OTHER

**Violin**

- Concertmaster, Boston Latin School Philharmonic Orchestra (2019-Present)

**Boston Latin School Cross Country and Track**

- Varsity Team (2018-2019)
- Massegon Invitational 2018 JV 5K, *1st Place*

**National Latin Exam**, *Gold* (2019, 2020)

**National French Exam**, *Bronze* (2019), *Silver* (2020)

**Boston Latin School Student Council** (2019-Present)

**Boston Latin School Argo**, Forum Section Writer (2019-Present)

**Boston Latin School Wolfpack Volunteers** (2018-Present)

**Boston Latin School Debate Team** (2018-2019)

## VOLUNTEER EXPERIENCE

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**Peer Leader and Designer - Mothers for Justice and Equality (MJE)**

June 2017- August 2017

- Planned events for building homelessness awareness in Roxbury and Dorchester community
- Volunteered at Cradles for Crayons, Rosie's Place, and Franklin Park Zoo
- Designed and prototyped a waterproof night-time blanket that is able to convert into day-time suitcase when traveling

**Tutor - A Helping Elbows Tutor**

June 2020- August 2020

- Math (Pre-Algebra and Algebra), English, ISEE Test Prep Tutor at Josiah Quincy Elementary School