

XI (CHELSEA) CHEN

chxchen@mit.edu | <https://chxchenx.github.io/chxchen/>

EDUCATION

Massachusetts Institute of Technology

2019-2023 | Cambridge, MA

- > B.S. Computer Science & Biology
- > Minor Statistics & Data Science
- > GPA 4.8 / 5.0

Penn High School

2015-2019 | Mishawaka, IN

- > GPA: 4.459 / 4.0

SKILLS

- > Coding languages: Python, Java, HTML/CSS, Javascript, React.js
- > Design: GIMP, Procreate, Adobe CC
- > Data analysis (Biopython, pandas, seaborn, pyplot, Excel)

AWARDS

Whirlpool Sons & Daughters

Scholarship Recipient

2019-2023 | \$24,000 scholarship

TSA TEAMS Competition State

Champion & National Qualifier

2016-18 | national STEM competition

MathCon National Runner-Up

2017 | national math competition

EXPERIENCE

Wave Learning Festival

Data Analyst | August 2020-present

- Cleaning and visualizing geodata, analyzing and presenting data on popular services and student information.
- Contextualizing data for organization chairs; advising growth and publicity teams and helped expand by 1,000+ students.

Essigmann Lab, MIT Department of Biological Engineering

Undergraduate Researcher | September 2019-present

- Analyzing the COVID-19 genome; processed 500+ genomes to identify mutational processes and predict resistance.
- Programming software to efficiently process/analyze data generated by lab members; running simulations to advise research decisions.

Summer Science Program in Biochemistry, Purdue University

Researcher | June-August 2018

- Identified and optimized a compound for development into commercially viable fungicide.
- Performed kinetics analysis and modeled proteins in *F. oxysporum*.

LEADERSHIP

MIT Undergraduate Research Technology Conference (URTC)

URTC Committee, Publicity Team | May 2020-present

- Organized our first virtual conference with 300+ attendees.
- Performing outreach and recruiting speakers and panelists.
- Designing publicity material and managing social media accounts.

MIT Undergraduate Research Journal (MURJ)

Editor | September 2019-present

- Revising and reviewing student research proposals for publication.

Girls Who Code, Penn High School

Founder & President | July 2018-June 2019

- Partnered with the University of Notre Dame to make technology and CS education more accessible to local high schools.
- Planned field trips & weekly classes for over 30 club members.

South Bend Youth Symphony Orchestra (SBYSO)

Section Leader, Concertmaster | August 2013-May 2019

- Handled communication within the orchestra.
 - Collaborated with Grammy-winning artists and played in multiple world premieres.
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