

# LINGHAI LIU

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## Education

**Brown University** | *Sc.B. Applied Mathematics – Computer Science Candidate* | GPA: 4.0 *Providence, RI | Expected graduation: May 2023*

- Relevant Coursework: Intro to Computer Science and Object - Oriented Programming, Data Structures & Algorithms, Honors Calculus, Linear Algebra, Ordinary Differential Equations.

**Shanghai High School** | High School Diploma | GPA: 94.23%

*Shanghai, China | September 2016 – June 2019*

- Additional coursework to Chinese College Entrance Exam preparation: Boolean Algebra, HTML/CSS, Digital Circuits, French

## Research Experience

**Rural Education Action Program (REAP), Stanford University** | Research Assistant *ONLINE | May 2020 – September 2020*

- Participated in follow-up survey via telephone on the influence of learning with information technology. Cleaned and analyzed survey data using Stata.
- Member of the quality control & management team. Keep track of recordings for telephone surveys and daily completion records and compare them with the actual online survey forms received.
- Developed the front-end of an academic website for scholars.

**Brown University Mathematics Projects, Brown University** | Student Researcher

*Providence, RI | July 2020 – August 2020*

- Co-authored a 19-page final report paper with two other undergraduates advised by Ph.D. student on the topic of randomizing speed using Markov Chain Monte Carlo method.
- Used MATLAB and Python packages *pandas*, *matplotlib*, *NumPy*, and *scipy.optimize* to simulate, collect, visualize, and analyze data.

## Leadership and Mentorship Experience

**Meiklejohn Peer Advising Program, Brown University** | Peer Advisor

*Providence, RI | August 2020 – Present*

- Cooperate with a member of the faculty at Brown University to advise a group of 5 first-year students on course selection, study habits, housing, summer internships and research opportunities, navigating the Brown campus and Providence, and social issues.

**Harvard College AUSCR Summit for Young Leaders in China**

*Teaching Fellow*

*ONLINE | August 2020*

- Assisted a seminar leader from Harvard College with teaching *Introduction to Computer Science in Python*.
- Organized, coordinated, and co-taught a capstone course to develop students' design and analysis of their transformation proposals for designing nodes in urban areas.
- Bonding and planning activities for a 'house' of over one hundred students with other teaching fellows and a 'block' of 10 students on my own. Negotiate with teaching fellow managers and house leaders on student issues.

*Senior Student Intern*

*Hangzhou, China | August 2019*

- Assisted with the work of teaching fellows and seminar leaders to build a close bond with students.
- Hold meetings and write daily articles to conclude daily work and life for students in the same 'house'.

**Brown Chinese Students and Scholars Association** | Chair & Member of Liaison

*Providence, RI | September 2019 – Present*

- Connect and cooperate with companies, institutes, and organizations to provide Chinese students and scholars at Brown with various opportunities for career and academic experiences.
- Jointly hold events with other universities in Rhode Island, Massachusetts, other states, and among other Ivy-League universities.

## Skills and Interests

**Languages:** Fluent in Mandarin & English, conversational French, Japanese (familiar)

**Technical:** Python, Java, MATLAB, HTML/CSS, STATA, R, LaTeX, MS Office.

**Interests:** Linguistics, violin, basketball, English & French novels.

**Other Activities:** Brown China Summit, panel member; Business Big Data Co., data assistant.

## Awards

Hartshorn-Hypatia Freshman Math Contest, 2nd place (tied), Brown University, 2019

Graduated with highest honor and distinction, Shanghai High School, 2019

Excellence Editor, Shanghai High School Radio Station, 2018

Teaching Fellow, Harvard College AUSCR Summit for Young Leaders in China (HSYLC), 2020

Honors student & Exceptional Senior Student Intern, Harvard College AUSCR Summit for Young Leaders in China (HSYLC), 2019