

# Junxi Li

Phone: (86) 18021010127 | Email: [lijx2004@outlook.com](mailto:lijx2004@outlook.com)  
Shanghai, China

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## SUMMARY

I deemed myself as a person full of curiosity, with a heart that craves new knowledge. I view things through a different lens. I always come up with innovative ideas in club discussions or when facing challenges. I have a solid ability to learn new things.

I have a dream. I want to have the eyes of the artists that can capture meaningful moments in my life; I want to have a heart of a scientist, with which I can carry with me the curiosity, the resilience, and the beautiful logic, to explore the world. I am open to the knowledge of many fields of study, which I consider as treasures left by our intelligent ancestors. I hope that I can know more about our world from their legacy and manage to carry on their study to reveal the secrets of nature.

## EDUCATION

### Shanghai Foreign Language School

September 2017 – June 2022

- Host of graduation ceremony 9,10th Grade
- Merit Student 1st Place 9th Grade
  - Scored 1st Place in High School Entrance Exam, with 30,000 Scholarship
- Valedictorian(4 chosen among 270 students) 9th Grade
  - Chosen for having overcome challenging curriculum and having made significant progress after transferred to SFLS
  - Gave Valedictorian speech on the graduation ceremony, with all students and parents in my Grade

### Jincai Experimental Middle School

September 2015 – June 2017

- Goalkeeper of the school soccer team. 6,7th Grade
  - 1st place in leagues held in Shanghai.
  - Chosen to be the goalkeeper in Shanghai teenagers' soccer team.
  - Selected into the best national teenagers' soccer team

## RESEARCH EXPERIENCE

### Research Machine Learning&Artificial Intelligence(With Professor Goyal at CMU)

11th Grade  
8hrs/week,16 weeks/year  
May 2021 - September 2021

- Applied LSTM Neural Network, with a newly devised rectification method, to Stock Market Prediction. Adjusted parameters hundreds of times, eventually reducing the Mean Absolute Error from 68.28 to 0.79.
- Collaborated with students from UCSD, Sydney University, etc., to write a paper about this rectification method.
- Paper to be published

### Independent Research -- Molecular Physics

11th Grade, 3hrs/week, 8 weeks/year,  
March 2021 - May 2021

- Investigated reasons and principles of catastrophe that took place in Chernobyl.
- Researched into nuclear fission, half-life period, and properties of Uranium-235, which reveals how electricity is generated in nuclear power plants.
- Researched about pros and cons of nuclear power plants and their potential impact on the environment, such as leakage and deliberate attack.

## LEADERSHIP EXPERIENCE

### Founder & President Information & Promulgation Club

11,12th Grade, 3hrs/week, 30 weeks/year  
February 2021 - present

- Organized regular meetings, discussed tasks needed to complete.
- Led students to arrange interviews with outstanding students and to report school events.
- Appointed club members to regularly write about subjects they are interested in simply and comprehensively. I think this will help many students get off the stereotype towards some subjects, which they considered boring in school, and explore more about the application and real-life examples of such subjects. I think this will help many students to find their fields of interest. One of my classmates is especially interested in this idea, and he has written a 3-page-long article to introduce the application of chemistry in plastic. I found that very informative and appealing.
- Negotiated with teachers to help us post our posts on the School's Official account to gain popularity.
- One of our interviews became a hit within our school, reaching 1,000+ views.

### Founder Platform for Emotional Support

11,12th Grade, 8hrs/week, 20 weeks/year  
April 2021 - present

- Arranged meetings to discuss functions needed and their feasibility.
- Found online tutorials from Coursera, Youtube, and Khan Academy. Learned more than 3 different tutorials, eventually followed one of them, and finished building the website.
- This website is tailor-made for people who need emotional support. I was inspired by an anonymous comment section on 163 music platforms in China. I saw how people open their hearts anonymously. Our website allows people to post anonymously, and others can comment below.
- Gave technical support and regular maintenance to our website.
- Build an anonymous website with over 8000 views and 200+ active users

### President Basketball Club

9,10th Grade, 1.5hrs/week, 40 weeks/year  
January 2019 - June 2020

- Led members to practice weekly
- The conducted league between grades.
- Got permission from the administrative teacher to let club members remain and use the basketball court after school.

## COMMUNITY SERVICE

### Coursera Chinese Translator

9,10,11,12th Grade, 3hrs/week, 52 weeks/year  
June 2019 - present

- Noticing that Chinese subtitles are not available in many courses, I translated while watching lectures.
- Already translated more than 70,000 words until now, invited 2 friends to join this community.

### Volunteer Left-behind Children Reunion

9,10th Grade, 3hrs/week, 15 weeks/year  
June 2019 - September 2020

- Contacted companies including KFC, McDonalds, and some local cinemas, to hold activities for families to reunite with their children. Rejected by KFC, MC Donalds, and most cinemas. Eventually, got 70% off on film tickets.
- Arranged charities sell to raise money to let these children meet their parents in summer.

### Model United Nation Volunteer

9th Grade, 56hrs/week, 1 week/year  
March 2019 - March 2019

- Worked four days, full-day, from 7:30 am to 9:00 pm. Responsible for supportive events; prepared well in advance and solved existed problems on-site, learned speech and debate skills and information about many countries.
- Aquitanted myself to the history of countries that I had never heard of before, met new friends from other schools.

## ATHLETICS

### Goalkeeper School Football team

8-11th Grade, 2hrs/week, 52 weeks/year  
September 2017 - June 2021

- Attended weekly training, represented my own class to compete with other classes.

### Goalkeeper Shanghai Team

1-9th Grade, 20hrs/week, 45 weeks/year  
September 2009 - October 2018

- The goalkeeper of the School and Shanghai Team. Won 1st place in East China Division, 6th place in China.
- Won the Best Goalkeeper award in Shanghai 6 times in total.
- Selected into the best national teenagers' soccer team in China
- Inter Milan Exchange training--sent to Venice to train with Inter Milan's youth team for a month.

## TESTS & HONORS

### Standardized Tests

- TOEFL 110/120 Reading 30 Listening 28 Speaking 27 Writing 25
- TOEFL Best Score 113/120 Reading 30 Listening 28 Speaking 27 Writing 28
- AP Macroeconomics -----5 (2020)
- AP Calculus BC -----5 (2021)
- AP Calculus BC AB subscore -----5 (2021)
- AP Physics C Mechanics -----5 (2021)
- AP Computer Science A -----5 (2021)
- AP Biology -----(2022)
- AP English Language & Composition -----(2022)
- AP Statistics -----(2022)
- AP Art History -----(2022)

### Honors & Awards

- 2021: American Mathematics Competition 12 (AMC12), Global top 5%, qualified for AIME, International
- 2021 American Computer Science League (ACSL), Global Finalist, International
- 2021 USA Computing Olympiad (USACO), Silver Medal, International
- 2021 Euclid Math Contest (Grade12), Global Top 25%, Award of Distinction, International
- 2021 Kaggle Data Science Competition, Global Top 10%, 436/4670, International
- 2020 Australia Math Contest (AMC), Global Top 25%, International
- 2019 Merit Student 1st Place, Shanghai Foreign Language School, Awarded with 30,000\$ scholarship, School
- 2019 Valedictorian, Shanghai Foreign Language School, Awarded to 4 out of 270, School

## ARTS & SKILLS

- Piano Level 8 Since Kindergarten
- Guitar Finger Style Since 6th Grade
- Hulusi (Traditional Chinese instrument) Since 2nd Grade
- Programming Languages: HTML, CSS, Javascript, Java, Python, C++, C# Since 10th Grade