

Fall quarter/semester 2024

About you

Personal information

First / Given name

Xiran

Last / Family / Surname

Lin

When were you born?

May 28, 2007

Where were you born?

Beijing, China, Peoples Republic of

Attended California public school

No

Contact information

Home address (permanent)

Address line 1

Shijicheng, Haidian District

Address line 2

Chunmengyuan 12-6-10C

City

Beijing

Province / County

Beijing

Postal code

100097

Country

China, Peoples Republic of

Mailing address

Address line 1

Shijicheng, Haidian District

Address line 2

Chunmengyuan 12-6-10C

City

Beijing

Province / County

Beijing

Postal code

100097

Country

China, Peoples Republic of

Primary international phone number

+86 18600288282

Phone type

Cell/Mobile

Alternate international phone number

+86 18210752007

Phone type

Cell/Mobile

Authorized to share contact information

Yes

Citizenship & residency

Country of citizenship

China, Peoples Republic of

Your citizenship status

Non-immigrant/foreign visa (you have a visa or will be applying for one)

Do you currently have a U.S. visa ?

Yes

Which type of U.S. visa will you apply for (or have applied for)

Student

Current visa type

Temporary Visitor - Pleasure

By the time you attend UC, will you have a different visa ?	Yes
Planned visa type	Student

Demographics

Ethnicity / Ancestry

Do you consider yourself Hispanic or Latino?	No
Asian / Asian American	Chinese

Gender and sexual orientation

How do you describe yourself?	Man
What do you consider yourself to be?	Heterosexual or straight

Your background

What language did you learn to speak first?	Chinese
Dependent of a U.S. military veteran or service member	No

Your household

Who lives with you at your permanent home address?	Two parents
What was the total income earned for year 2022 by the parents or legal guardians listed above?	\$ 500000
How many people were supported by this income?	4

Parent information

Parent 1

What is this parent's relationship to you?	Father
Is this parent living?	Yes
What is this parent's highest level of education?	Postgraduate study
What is this parent's current job status?	Employed
Current job	Finance
Current job title	Executive Director
Current job approx. years	3
First / Given name	Jing
Last / Family / Surname	Lin
Email address	Linjing_andy@hotmail.com
Parent's address	(Same as Applicant's Address above)
Authorized to share parent's contact information	Yes

Parent 2

What is this parent's relationship to you?	Mother
Is this parent living?	Yes
What is this parent's highest level of education?	Postgraduate study

What is this parent's current job status?	Employed
Current job	Management
Current job title	Director
Current job approx. years	14
First / Given name	Ye
Last / Family / Surname	Cheng
Email address	dancingkaren@163.com
Parent's address	(Same as Applicant's Address above)
Authorized to share parent's contact information	Yes

Statement of Legal Residence

Would you like to be evaluated for California residency for tuition purposes?	No
Reason that I do not want to be evaluated for California residency for tuition purposes.	I am an international student
I understand that I will be classified as a nonresident for tuition purposes should I attend a UC school.	Yes
Special Circumstances, Nonresident Supplemental Tuition Exemptions, and Tuition Waivers	I have no exemptions.
I declare the statements are true and correct.	Yes
I understand this does not guarantee a Resident Classification for UC tuition.	Yes

Campuses & Majors

UC values	
UC values	Accepted

Level	
Term	Fall 2024
Level	Freshman

Choose campuses
UC Berkeley UC Davis UC Irvine UCLA UC San Diego UC Santa Barbara
Estimated cost: \$570

Choose majors	
Campus	Major
UC Berkeley	Mathematics, B.A. College of Letters and Science

Alternate major

Intending a major in Mathematics and Physical Sciences  
division  
College of Letters and Science

UC Davis

Mathematics, A.B./B.S.  
College of Letters and Science

Academic Options Program  
Undeclared - Physical Sciences  
College of Letters and Science

UC Irvine

Mathematics, B.S.  
School of Physical Sciences

Physical Sciences/Undeclared  
Undeclared Majors

UCLA

Mathematics (Pre), B.S.  
College of Letters and Science

Undeclared - Physical Science  
College of Letters and Science

UC San Diego

Mathematics, B.S.  
School of Physical Sciences

Undeclared - Physical Sciences  
School of Physical Sciences

UC Santa Barbara

Mathematics, B.S.  
College of Letters and Science

Undeclared (Letters and Science)  
College of Letters and Science

UC San Diego college ranking

Rank	College
1	Earl Warren College
2	Eighth College
3	Eleanor Roosevelt College
4	John Muir College
5	Revelle College
6	Seventh College
7	Sixth College
8	Thurgood Marshall College

Academic History

Introduction

Your academic history — essentially, the courses and grades from all schools you've attended while in high school — is just one of the factors we look at to ensure you're prepared for college-level work.

If you took high school-level math or language other than English in middle school (7th and 8th grades), you will have a chance to report those courses and grades in this section.

Make sure you refer to your transcripts (or academic records) as you fill out any information — don't enter information from your memory. It's important to report all of your schools, courses and grades exactly as they would appear on official transcripts or academic records.

7th & 8th grade

Courses

Subject Area	Course Name	Term Period
Algebra I	Algebra I	Full Year
Geometry	Geometry	Full Year
Algebra II	Algebra II	Full Year
Yr 4+ Lang Other Than English	Grade 7 Chinese	Full Year
Yr 4+ Lang Other Than English	Grade 8 Chinese	Full Year
Has International Experience <b>Yes, Chinese</b>		

High schools

21ST CENTURY EXPERIMENTAL SCH  
CHINA 100142, CHINA, PEOPLES REPUBLIC OF

School code	694223
Specialized curriculum	AP Curriculum
Grading system	0-100 (China)
Term system	Semester
Attended	September 2021 - July 2024
Grades attended	10th grade 2021 - 2022 11th grade 2022 - 2023 12th grade 2023 - 2024
School you will graduate from:	Yes
Degree, diploma or certificate	High/Secondary School Diploma
Date received or to be received	July 2024
Language of Instruction	Chinese

9th grade

I skipped this grade.

10th grade

21ST CENTURY EXPERIMENTAL SCH  
CHINA 100142, CHINA, PEOPLES REPUBLIC OF

2021 - 2022 academic year

Subject area/Course category	Course name	Hnrs	Term	G1	G2	G3	G4	Language name
A-U.S. History	History	HL	Semester	96	NO			
A-World History/ Cultures/ Hist. Geography	Society and Moral Character	NH	Semester	94	87			
B-English	American Literature	HL	Semester	95	NO			
B-English	Comprehensive English	HL	Semester	98	98			
C-Mathematics I	Maths	AP	Semester	97	92			
D-Computer Science	AP Computer Science A	AP	Semester	95	97			
D-Biology / Life Sciences	Biology	HL	Semester	95	93			
D-Chemistry	Chemistry	AP	Semester	96	96			
D-Earth and Space Sciences	Geology	NH	Semester	NO	96			
D-Physics	Physics	AP	Semester	98	95			
E-LOTE Level 2	Chinese	HL	Semester	93	94			Chinese
E-LOTE Level 1	German	NH	Semester	97	NO			German
G-History / Social Science	AP Microeconomics	AP	Semester	95	95			

11th grade

21ST CENTURY EXPERIMENTAL SCH  
CHINA 100142, CHINA, PEOPLES REPUBLIC OF

2022 - 2023 academic year

Subject area/Course category	Course name	Hnrs	Term	G1	G2	G3	G4	Language name
A-World History/ Cultures/ Hist. Geography	History	HL	Semester	97	97			
B-English	American Literature	HL	Semester	100	100			
B-English	Comprehensive English	HL	Semester	97	99			
C-Calculus	AP Calculus BC	AP	Semester	97	98			
D-Physics	AP Physics C Mechanics	AP	Semester	96	98			
D-Physics	Physics-Lab	NH	Semester	98	98			
E-LOTE Level 4+	Chinese	HL	Semester	95	97			Chinese
G-History / Social Science	AP Macroeconomics	AP	Semester	95	97			

12th grade

21ST CENTURY EXPERIMENTAL SCH  
CHINA 100142, CHINA, PEOPLES REPUBLIC OF

2023 - 2024 academic year

Subject area/Course category	Course name	Hnrs	Term	G1	G2	G3	G4	Language name
A-World History/ Cultures/ Hist. Geography	AP World History	AP	Semester	IP	PL			
B-English	American Literature	HL	Semester	IP	PL			
B-English	Comprehensive English	HL	Semester	IP	PL			
C-Statistics	AP Statistics	AP	Semester	IP	PL			
D-Physics	AP Physics C Electricity and Magnetism	AP	Semester	IP	PL			
E-LOTE Level 4+	Chinese	HL	Semester	IP	PL			Chinese
F-Visual Arts	Art Appreciation	NH	Semester	IP	PL			
F-Music	Music	NH	Semester	IP	PL			

Colleges attended while in high school

None reported

College courses taken in high school

None reported

Additional information

Additional Comments

In China, the middle school is from Grade 7 to Grade 9, and the senior high school is from Grade 10 to Grade 12.

After completing Grade 7 and Grade 8 at Beijing Jianhua Experimental School from 09/2019 to 07/2021, I entered Grade 10 directly to Beijing 21st Century International School. I skipped Grade 9 because of excellent academic performance.

Beijing 21st Century International School Grading System:

A: 85 -100

B: 75- 84

C: 65- 74

D: 55 - 64

F: Below 55

Test Scores

AP exams

Exam name	Date taken	Score	Planned date
Calculus AB Subscore (from the BC sitting)	05/2023	5	

Exam name	Date taken	Score	Planned date
Calculus BC	05/2023	5	
Computer Science A	05/2023	5	
Economics: Macroeconomics	05/2023	5	
Economics: Microeconomics	05/2023	5	
Physics C: Electricity and Magnetism			05/2024
Physics C: Mechanics	07/2023	5	
Statistics			05/2024

IB exams

I have no test score information to report

English language proficiency test

TOEFL iBT

Date taken   November 2023  
Registration number   6368611239211488

Subject	Score
Reading	29
Listening	29
Writing	28
Speaking	26
Total	112

Planned retake date   December 2023

International exams

I have no test score information to report

Activities & Awards

Activities/Awards

1. Award or honor

Name of the award or honor

Distinction (a score of 108, top 5%) AMC 12B

Level of recognition

International

Type of award

Academic



Grade level when awarded

12th grade

Award requirements

It is a 25-question, 75-minute, multiple-choice examinations designed to promote the development and enhancement of problem-solving skills. Ranked in the top 5% to receive the Distinction Award, earning a score of 108.

What you did to earn award

Dedicated months preparing for the competition by reviewing the preparation materials provided by the Mathematical Association of America, practicing sample questions, discussing solutions of difficult math problems with my classmates to gain more comprehensive insights. Greatly enhanced my mathematical skills and problem-solving skills.

2. Award or honor

Name of the award or honor

Top 25%, Euclid Mathematics Contest

Level of recognition

International

Type of award

Academic

Grade level when awarded

11th grade

Award requirements

Written by over 20,000 participants worldwide, the Euclid contest gives senior-level secondary school students the opportunity to tackle novel problems with creativity and all of the knowledge they've gained in secondary school mathematics.

What you did to earn award

It is a 10-question contest, with a mix of short-answer and full-solution questions that lasts for about 2.5 hours. Dedicated weeks to preparing for the competition. Self-studied advanced math knowledge, discussed difficult problems with my classmates, and practiced sample tests to develop my problem-solving skills.

3. Award or honor

Name of the award or honor

High Dist., Australian Science Olympiad Competition-Physics

Level of recognition

International

Type of award

Academic

Grade level when awarded

11th grade

Award requirements

The Australian Science Olympiad Competition-Physics is one of the toughest physics exams in Australia. It is hosted by Australian Science Innovations, a premier provider of science extension programs for high achieving science students.

What you did to earn award

Absorbed fundamental knowledge by taking the AP Physics C Mechanics classes at school. Spent weeks preparing for the competition by reading additional textbooks online, discussing problems with my classmates, and seeking guidance from my physics teacher when encountered difficult concepts.

4. Award or honor

Name of the award or honor

Distinction, Australian Mathematics Competition

Level of recognition

National

Type of award

Academic

Grade level when awarded

12th grade

Award requirements

Hosted by the Australian Mathematics Trust (AMT), a national non-profit organization whose main purpose is to enrich the teaching and learning of mathematics for students. The Distinction Award is given to the top 25% of the contestants.

What you did to earn award

Spent 2 months preparing for the exam, learning knowledge about the possibility theory, solid geometry, and so on. Practiced sample papers for the past 10 years. Expanded my math knowledge, developed my creative problem-solving skills, and solidified my academic interest in mathematics.

5. Award or honor

Name of the award or honor

2nd Prize, International Space Settlement Design Competition

Level of recognition

National

Type of award

Academic

Grade level when awarded

11th grade

Award requirements

ISSDC puts high school students in the shoes of aerospace industry professionals. Students are divided into different "companies" to design a facility in space that will accommodate several thousand people in a realistic scenario set.

What you did to earn award

Each team finishes a written summary of 50 pages and provides a 35-minute oral briefing. Led the team and organized regular meetings a month before the competition. Assigned tasks and coordinated the communication among all members. Booked hotels and meeting rooms for our team during the competition due to the COVID quarantine restrictions.

6. Award or honor

Name of the award or honor

Regional Top 100, American Regions Mathematics League

Level of recognition

International

Type of award

Academic

Grade level when awarded

11th grade

Award requirements

The American Regions Mathematics League (ARML) has brought together thousands of students annually to compete, socialize with one another, and sharpen their mathematical skills.

What you did to earn award

Practiced sample tests to develop my problem-solving skills and fill any knowledge gap. Spent 4 hours per week to study and review my wrong answers in an effort to expand my knowledge. Helped our team find an empty lab room for team meetings and negotiated with school officials to receive approval of using the room.

7. Extracurricular activity

Activity name

Research paper: machine learning models

Activity description

Instructed by a professor from Carnegie Mellon University and posted a paper facsimiling a Brizilian Coin detection program on Kaggle. Built a machine learning model to identify Brazilian coins of different face values. Trained the model with 3000+ samples & the accuracy was 99%.

Grade participation

11th grade

Time commitment

5.0 hours per week

8.0 weeks per year

8. Extracurricular activity

Activity name

Intern, Happy Huo Software Company

Activity description

Applied natural language processing (NLP) knowledge to help computers understand scripts better by sorting and organizing different words in sentences. Gained real-world working experience, professional networking opportunities, and insights into the frontier industry of machine learning, AI, and computer science.

Grade participation

11th grade

Time commitment

32.0 hours per week

1.0 weeks per year

9. Extracurricular activity

Activity name

Tutor, MLC (a community for academic & personal growth)

Activity description

Taught Calculus & Mechanics knowledge. Helped students with AP Calculus and AP Physics C: Mechanics to improve their academic performance. Contributed to building a highly collaborative learning environment that empowers my peers to reach their full academic potential.

Grade participation

10th grade

Time commitment

6.0 hours per week

35.0 weeks per year

10. Extracurricular activity

Activity name

Volunteer teacher, tutor of primary school students

Activity description

Taught primary school students math classes to introduce knowledge of permutation and combination. Helped develop their problem-solving skill. Carefully designed the teaching plans while organizing interesting in-class activities to engage all students and cultivate their academic curiosity toward mathematics.

Grade participation

12th grade

Time commitment

2.0 hours per week

10.0 weeks per year

11. Extracurricular activity

Activity name

Model builder, made model planes since Grade 3

Activity description

Made 200+ model planes (assembled wings, engines, main bodies, rudders, etc.) Developed my patience, self-discipline, technical skills, etc. Prepared the airplane's body, traced out the shapes of each part using a pencil, cutting and assembling each part with extreme focus. Painted the finished product with unique and creative liveries.

Grade participation

- 9th grade
- 10th grade
- 11th grade
- 12th grade

Time commitment

20.0 hours per week  
45.0 weeks per year

12. Extracurricular activity

Activity name

Vlogger, video editor

Activity description

Made 50+ videos (narrate/add subtitles). Gained an increasing number of views. Improved my editing skills & fulfilled my desire of self-expression. Posted game videos on Bilibili (one of the most influential video platform in China)

Grade participation

- 9th grade
- 10th grade
- 11th grade
- 12th grade

Time commitment

2.0 hours per week  
50.0 weeks per year

13. Volunteer / Community service

Organization, group or program name

World Wildlife Fund

Organization, group or program description

WWF is a Swiss-based international non-governmental organization founded in 1961 that works in the field of wilderness preservation and the reduction of human impact on the environment.

Description of volunteer experience

Volunteered to translate English articles about endangered animals and coral reefs into Chinese. Promoted knowledge of environmental protection and raised public awareness of critical environmental problems. Absorbed new knowledge of biology, environmental science, geology, and so on.

Grade participation

- 11th grade
- 12th grade

Time commitment

2.0 hours per week  
8.0 weeks per year

14. Extracurricular activity

Activity name

Athlete, Ice Hockey Club

Activity description

Played ice hockey since elementary school. Competed in 2 seasons of Beijing Ice Hockey League. Improved my physical strength and persistence. Cultivated my teamwork skills and fostered a collaborative mindset through training and competing in games with my teammates.

Grade participation

- 10th grade
- 11th grade
- 12th grade

Time commitment

- 4.0 hours per week
- 20.0 weeks per year

15. Extracurricular activity

Activity name

Director: The Penguins of Madagascar (a drama show)

Activity description

Directed a class show titled The Penguins of Madagascar & organized regular rehearsals. Won the 1st Place out of 10 classes.

Grade participation

- 10th grade

Time commitment

- 20.0 hours per week
- 3.0 weeks per year

16. Educational preparation program

Program name

CIS program

Program description

Participated in an 8-week study program led by a professor from Carnegie Mellon University. Studied about machine learning practices and Convolutional Neural Networks, Dynamic Programming, Recurrent Neural Networks, and Reinforcement Learning.

Grade participation

- 11th grade

Time commitment

- 20.0 hours per week
- 8.0 weeks per year

Scholarships & Programs

Scholarships

None selected.

Support programs

None selected.

Personal Insight

Introduction

Personal insight questions

Describe an example of your leadership experience in which you have positively influenced others, helped resolve disputes, or contributed to group efforts over time.

This February, I competed in the Space City Design Competition, hosted by NASA, and was elected to be the leader of the Automatic Group during the Asian Region Finals. It has been both a challenging and transforming leadership experience for me.

Back then, our team was given 48 hours to design a spaceport located at the Third Lagrange Point. Everything went smoothly until we lost communication with the team leader in another city, Chongqing, due to technical issues. The whole team soon slid into chaos as most

teammates lost faith.

At this critical moment, I took over the role of a team leader without hesitation. All of a sudden, there was an overwhelming amount of things to consider: the chaotic communication process, my teammates' mental state, the clear team objectives, and so much more. It was 2 in the morning, and I immediately worked on reaching out to each remaining member with sincere and encouraging words to restore their confidence. I remember sitting in the empty meeting room, engulfed by a mixture of negative emotions and huge pressure. However, scenes of us brainstorming, sharing innovative ideas, and encouraging each other during setbacks kept rising before my eyes. I regained my strength by recalling my teammates' initial enthusiasm and the sparkle of expectation in their eyes.

As the new leader, I calmly reorganized tasks at hand based on each member's strengths and skills. We worked tirelessly for the next couple of hours, with each member bringing their unique skills and creative ideas to the table. The whole team worked incredibly efficiently after I emphasized our shared goals and kept the whole team on track.

Despite the great obstacles encountered, we ended up finishing a spaceport design that was not only functional but also innovative. When the time of submission was up, I hit the "submit" button with a mixture of exhaustion and pride. At this point, I saw my unexposed leadership potential, and I became more motivated to engage in similar leadership experiences to sharpen my skills in the future.

**What would you say is your greatest talent or skill? How have you developed and demonstrated that talent over time?**

Starting from an early age, I have devoted a great deal of time to model building, which is a highly creative process of building physical models from diverse materials. For me, it was never just a simple hobby to pass the time, but an inspiring realm that sparked countless moments of epiphany and personal growth.

Personally, I am most adept at crafting model planes, and I perceive it as an art form that perfectly resonates with my inner passion for pursuing precision and creativity. Beyond the acts of piecing together different parts of the models, I delved deeper into the intricacies of drawing rough sketches, refining my design, meticulously adding details to each gear, and so much more. Each careful stroke of a pen or a brush reflects my commitment to accuracy as well as reveals my relentless pursuit of perfection.

Making model planes gradually became a daily commitment for me, especially during my junior high school years. Back then, I devoted approximately four hours per day to building models, and my proudest work is a meticulously crafted Lufthansa Boeing 747-400, built at a 1:400 scale. It stood out among my other creations for the innovative technique of making interlocking paper pieces without using any glue or tape I adopted in making this model. In the prolonged process of building the 747-700, I researched the details of the shape, size, engine design, and many other aspects to represent the original plane structure to the greatest extent.

Moreover, I have constantly poured my imagination and creativity into each creation instead of simply replicating the existing models. In particular, I dedicated a lot of time to working on designing the liveries of each model plane. I see it as a meaningful process of giving a plane a story background, a vivid description that adds depth to the final product, or, in other words, giving life to what I built. In this case, each model-building experience exuberates vitality, granting me a precious opportunity to innovate, balance between aesthetic appeal and functionality, and bring to life the sophisticated model planes.

**Describe the most significant challenge you have faced and the steps you have taken to overcome this challenge. How has this challenge affected your academic achievement?**

Growing up with both parents as Oxford graduates, I was steeped in lofty expectations from the start. 100% was far from enough-I was always urged to push for 101% and even more. My parents seemed like relentless gamblers, perpetually driven to propel their children further. "Push yourself harder!" and "This isn't your limit - keep going!" became the soundtrack of my childhood. I was not permitted to socialize in my schools or my ice hockey team, just because they thought socializing was not worth doing two more math questions.

Initially, things were on track: I excelled in primary school, navigating dexterously through various examination halls. However, things took a turn since junior high school, when the elites among the elites of Beijing students dueled. My edge was ruthlessly overshadowed by my classmates' innate talents, yet my parents attributed this to my complacency. As time elapsed, encouragement morphed into reprimands; the alarm clock shifted from 7:30 am to 5 am until eventually, I just couldn't take it anymore.

I fell seriously ill, turning into a pale inpatient. Rejecting my parents' care, I resolved to leave us all for peace.

In the hospital, I finally reclaimed the freedom of my passions suppressed for years. I resumed my model planes, an asylum for my inner peace, which allowed me to think about the question that had always haunted me: who was I truly striving for?

I sought answers by exploring uncharted territories: either the history's immutability to individual feats or blunders regardless of monumental strides or grave mistakes, the guitar's soothing value for emotional expression, or psychology's revealing power to unearth the roots of my earlier uncompromising drive: a yearning for parental validation.

I've found much more to learn. Satisfaction comes from within rather than seeking praise. I realize that sometimes, my parents just pushed me to elevate my limits, not to discourage me. It was my own unyielding yearning for perfection that kept causing my internal conflict.

With two cooling patches adhered to my forehead, I headed back to the doorsteps of my home.

I knocked on the door.

"Dad, it's me."

Think about an academic subject that inspires you. Describe how you have furthered this interest inside and/or outside of the classroom.

Since childhood, I have harbored a strong interest in numbers, as evidenced by how quickly I could memorize phone numbers and then decompose them into prime numbers, just for fun. Over the years, the allure of extreme logic and precision in math has always captivated me as my comprehension of it gradually matured.

Upon establishing a solid foundation of math knowledge through years of studies, I eagerly sought opportunities outside the classroom to apply my theoretical knowledge to real-world practices. For instance, I creatively applied knowledge of the Lagrange Point to calculate the proper position of the perigee during the Space City Competition, hosted by NASA. By employing mathematical modeling concepts, such as potential functions and integration methods, I successfully led our team to finish the space city project with high quality.

My exploration of the math world continued as I ventured into the challenging realms of data science by collaborating with my classmates on a case study about identifying and categorizing coins using AI and machine learning theories. From understanding processes of data collection and classification to building CNN (Convolutional Neural Network) models using Python, I marveled at the magical power of the underlying mathematical principles, and my curiosity was further piqued.

Furthermore, discovering the significance of applying matrix-related knowledge to solve real-world problems through my data science project inspired me to shift my attention to a brand new area: exploring the correlation between math and finance. Such an idea was spurred partially by my father's influence since he was a fixed-income trader. To satiate my academic curiosity, I tried to utilize filtering methods to remove the seasonality feature in predicting prices for government bonds to increase accuracy. In this self-learning process, I further realized the pivotal role of mathematics in financial trading.

Looking back, I have strived for great academic achievement in years of exploring the world of math, and the sense of fulfillment that arose from overcoming each academic challenge was beyond compare. It has ignited a burning fire in my heart, which will surely guide me in my future studies.

Additional comments

None reported