Northwestern | THE GRADUATE SCHOOL

Application for Admission

App Type New Student Submitted Date 11-29-2018 App ID# 79313030

Intended **Full-time**Status

Entry **Fall 2019**Quarter

Prior TGS

Applicant

Applicant (Program)

Last Name **Zhu** First **Zixuan** Middle

Gender Pronouns (US only) Birthdate 01-03-1997 Gender Female

Program Computer Science: MS Secondary PhD (MEAS Only)

Specialization/Area of Interest Artificial Intelligence and Machine Learning MS Consideration

Cluster (MEAS Only)

JD/PhD **No** DPT/PhD **No** Fee US Vet/Active Forces Waiver

Ethnicity **Asian** Hispanic **No**

Citizenship CHINA Visa

Citizenship Status International Student

Current Address

Country of Birth CHINA Green Card #

Room 602, Building No.8

No.5 Yulan Road, Yuhuatai Dist

Nanjing, 210000

Room 602, Building No.8

No.5 Yulan Road, Yuhuatai Dist

Nanjing, 210000

CHINA CHINA

Current Phone Permanent Phone

Cell Phone +86 15305198628 Preferred Phone Cell Phone Number

Number Email Address zixuanzhu0103@gmail.com

Previous Institution From To Field of Study Level Degree Date

Permanent Address

Zhejiang University 09-01-2015 07-01-2019 Computer Science International Undergraduate Degree

| Cumulative UG GPA | 3.87 | UG Junior/Senior Year GPA | 3.86 | | | | | | |
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| Cumulative UG GPA - Unconverted | | Max UG GPA Scale | | | | | | | |
| Cumulative Grad GPA | 3.87 | | | | | | | | |
| Cumulative Grad GPA - Unconverted | | Max Grad GPA Scale | | | | | | | |
| Letters of Recommen 1. Yunjun Gao 2. Jeffrey Zhang 3. Wenzhong HE 4. 5. | dation | gaoyj@zju.edu.cn jinming.zhang@morgans donhwz@zju.edu.cn | tanley.com | | | | | | |
| Are you interested in s | studying with specific faculty mer | mbers? (List names below) | | | | | | | |
| 1. First Name Larry | First Name Larry Last Name Birnbaum | | | | | | | | |
| 2. First Name Doug | 2. First Name Douglas Last Name Downey | | | | | | | | |
| 3. First Name Ken | Last Na | ime Forbus | | | | | | | |
| 4. First Name Krist | i an Last Na | ame Hammond | | | | | | | |
| Please indicate the hig most responsible for ra | ghest level of education complete aising you) | ed by your parent(s) or guardian(| s) (the one or two people | | | | | | |
| First individual's highe | est level of education completed: | Associate's degree or equiva | lent | | | | | | |
| If other, please explain | า: | | | | | | | | |
| Second individual's hi | ghest level of education complete | ed: Bachelor's degree or equiv | alent | | | | | | |
| If other, please explain | 1: | | | | | | | | |
| Language | Reading | Writing | Speaking | | | | | | |

| Self-Reported Test Scores |
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| GRE Gen 09-23-2017 Verbal 157 76 Quant 170 96 A.W. 3.5 41 |
| GRE Sub LSAT LSAT |
| TOEFL 10-28-2018 Ovr 104 Read 25 List 29 Speak 23 Writ 27 IELTS Ovr |
| GMAT Tot Verb Quant A.W. I.R. |
| MCAT Bioscience Verbal Physical Science |

| Please list any honors you have been awarded Merit Scholarship, ZJU, 2015-2018; CKC Outstanding Student Scholarship, ZJU, 20 Three-good Student Scholarship, ZJU, 2015-201 2012 NOIP [National Olympiad in Informatics in | 18; |
|---|------------------------|
| Have you applied for or been awarded an external fee Yes O No ⊗ If yes, please specify; | llowship? |
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| | |
| Please describe your plans for the future. Find a job in the computer science industry. | |
| Other Universities Applied (in preferred rank order) | |
| 1. School Drop Down Carnegie Mellon | 5. School "other" |
| 2. School Drop Down Columbia University | 6. School "other" |
| 3. School Drop Down Cornell University | 7. School "other" |
| 4. School Drop Down Brown University Johns Hopkins University | 8. School "other" |
| Academic misconduct? Yes ♥ No ♥ Convicted | d of crime? Yes ⊘ No ⊗ |

Ever since primary school, as a girl who is into computer programming, I've been on the receiving end of many odd stares and prejudicial comments. It was always crystal clear to me that I was in the minority. But I never let this get me down; on the contrary, I took it as a source of pride. When I was the only girl in my primary school's computer programming interest class, or when I was referred to as "the girl on the computer programming team," I was delighted. It made me feel special, and was a big boost to my self-esteem. That said, the pride that came from my skill with a computer was not based merely on my minority status. Regardless of gender, I was a precocious young coder, programming in Basic at the tender age of ten, and progressed to writing advanced computer algorithms in Pascal by the time I was in middle school. I have become accustomed to being among the top performers in computer science classes and competitions, and it was clear to me that I had what it takes to survive and thrive in computer science.

As a freshman in high school, I won the Advanced Group First Prize in National Olympiad in Informatics in Provinces (China's version of the International Olympiad in Informatics). Not only was this the highest award earned by a student at my high school that year, it was the highest award earned in the NOI contest by a freshman in my school's history.

My devotion to computer science and years of practice landed me at Zhejiang University, home to one of the best computer science departments in China. As one of the top schools in China, Zhejiang University maintains high standards, especially in the computer science department, where the faculty does not dish out top grades lightly. However, thanks to my lifelong passion in the subject and years of practice, I did not have trouble earning mostly A's, and have maintained a grade point average of 3.9 in my first three years of college.

Outside of class, I took the initiative to utilize my training in computer science to bring about real-world impact. Inspired by recommendation systems from online shopping websites, I began a fruitful collaboration with the Registrar's Office of CKC Honors College to build a mobile web application that recommends fields of study to incoming students based on their interests and talents. The website received thousands of hits by nearly every freshman on campus within a week of its release, reaping consistent praise, and is still in widespread use today. Encouraged by the success, I embarked on another project as part of the Student Research Training Program. Using the API's provided by Google Translate, I developed an Android app that translates academic articles from English to Chinese. Having finished the app well ahead of the three-month deadline, I used the remaining time to add additional functionalities such as a field-specific dictionary and an example sentence generator by applying Hidden Markov models to Chinese word segmentation.

Motivated by the desire to further enlarge the impact of my computer science skills, I interned in the technology team at Morgan Stanley's Shanghai office. I was assigned to their Axiom group, where my task was to develop an automated software deployment tool. Though I had no previous experience with Axiom, a programming language actively used by an extremely small group of developers worldwide, I picked up the basic syntax quickly with the help from a senior software developer. By further digging into the existing code base for examples on my own, I soon gained a solid grasp of the architecture and workflow. In the end, combining the Shell command I learned from school, I delivered a configurable automated deployment tool with postdeployment validation functionality. This tool helped Morgan Stanley's software engineers improve deployment accuracy from 85% to 100% and speed up the development process. I will forever remember the immense sense of accomplishment that I felt when I pushed my final code into production and witnessed how it improved the company's efficiency. If I ever had any doubt that I was meant to be a computer scientist, that doubt was forever squelched. Looking back, I realize that this internship was one of the main sources of inspiration for my current decision to pursue higher education and professional development in the United States.

It seems that computer science is a male-dominated field, especially in China, where traditional gender roles are still prevalent. However, during my internship at Morgan Stanley, I was impressed by the professionalism exhibited by my female colleagues and the level of influence that they had under the firm's culture. The emphasis on diversity and gender equality strengthened my resolve to pursue higher education and professional career in the United States.

In my mind, college is not the end but the beginning of my education. I'm prepared to continue pursuing the frontiers of knowledge in my field, and that's why I choose to pursue a master's degree in computer science at one of the leading schools in the field. The Master of Science program in Computer Science at Northwestern has much to offer. I find the Project MS in particular to be a great fit for me. The flexibility in designing my own curriculum and the wealth of courses to choose from give me the chance to further my interest and skills in software engineering with the focus on natural language processing. The opportunity to complete a culminating project upon graduation allows me to practice my learnings in the master program, a perfect preparation for me to utilize my knowledge to solve problems and create real-world impact. Outside of the academic program, I'm also excited for the entrepreneurial and diverse Northwestern community. I look forward to working on interdisciplinary projects with students from Kellogg, Medill and Pritzker at the Farley Center and forging longlasting friendship through GSA. I have no doubt that Northwestern could be the place where I embark on my professional career as a computer expert in an increasingly collaborative world.

浙江大学学生成绩一览表

登记号: 20183844

| 姓名: 朱梓煖 | 院系: | 计算) | 计算机科学与技术学院 | | Ellenda | A PARTY TO THE PA | 计算机 | 对学生 | 专业: 计算机科学与技术+革语 | SLINGALISE. | CAPACION DEL | 2010101011 |
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| 性别:女 | 生日: | | 1997年01月03日 出生地点: | 5. 江苏 | 栽 | 入学日期: | 期: 20 | 15年0 | 2015年09月01日 毕业日期. | はいは少 | 2019年06月30日 | 35 351 |
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| 第1学期课程 | 学分 | 成绩 | 英语写作[]》。第四章 | 1.5 | 87 | 组织行为学 | 1.5 | 良好 | B/S体系软件设计 | 5 | 95 | HE NAVOLANI (SEPHE DE IGNA), SE |
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Student's Academic Records

Registration No: 20183844

| Name: ZHU Zixuan | Colle | ge/De | College/Dept.: College of Computer | | Science & | Technology Specialit | N. Com | Orus | PAGE (GALE TEXT AND USAN AND U | 2000 | TENNADANICES | Ehrnopperus a | 3.5 |
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| oex: remale | Birth | ıday: | Birthday: 01/03/1997 Birth Place: Jiangsu | ace: | Jiangs | u Entrance | | e: 09 | Date: 09/01/2015 Graduation | n Date: | : 06/30/2019 | Years of Program: 4Years | 9 6 |
| Academic Year 2015-2016 | -2016 | ANDING | English Writing | 2.0 | 06 | Linguistics | 3.0 | 98 | Artificial Intelligence | 3.5 | 81 F ST WILES | HE SANDTACK SELVEN NOT SOUTH THE | |
| Courses(1st Term) | *Cr | *Sc | English Writing II | 1.5 | 87 | Principles of Organizational Behavior | 1.5 | В | B/S Architecture Software Design | 3.5 | 95 | SERVICIONAL DESPESAÇÃO DASTIGISTA DE | 3.2 |
| Military Training | 2.0 | 84 | Fundamentals of JAVA Programming | 3.0 | 96 | English Debate | 1.5 | 82 | Computer Networks | 4.5 | 79 | SHANDON SWEET SINGER STATES | 2.5 |
| A CONCISE HISTORY OF WESTERN MUSIC | 1.5 | 92 | Modern Chinese History (H) | 2.5 | 85 | Bridge (Basic Level) | 1.0 | 92 | Compiler Principle | 4.0 | 62 | GANDON CONTRACTOR OF THE CONTR | 9.9 |
| Introduction to Public Economics | 1.5 | 98 | Introduction to the Principle of Marxism | 2.5 | 06 | Object-Oriented Programming | 2.5 | 82 | Academic Year 2018-2019 | 2019 | A SAN A CAN A CAN A CAN | PENNICONAL PENNICONAL DESCRIPTION OF THE PENNICONAL DESCRIPTION OF | |
| Inorganic Chemistry | 3.0 | 06 | Integrated English III | 3.0 | 88 | Advanced C-E & E-C Translation | 2.5 | 93 | Courses (1st Term) | *Cr | *Sc | THE WIND WASHINGTON AS THE PROPERTY OF THE PRO | 13 |
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| Linear Algebra | 2.5 | 75 | Integrate Practice for Courses I | 2.5 | 96 | Advanced Data Structure & Algorithm Analysis | 4.0 | 88 | Practice Ability & Quality Development | 4.0 | A SAN GONDON | ENVIRONMENT CONTRACTOR OF THE PROPERTY OF THE | 9,5 |
| Calculus I (H) | 4.5 | 94 | Advanced Audio-Visual Course in English I | 1.0 | 80 | Python Programming | 3.0 | 68 | MACCESCHESHAGENACCESCHESPANG | SUPPLIES OF | E Medicinal (STATE) | PENNSHAM URCHESAN MARKING COLUMN | |
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| Cross-Country Orienteering (Basic Level) | 1.0 | 06 | Digital Logic Design | 4.0 | 88 | Theory of Computation | 2.0 | 84 | AN COLLEGE AND COAN COLLEGE CAND | NO(US) | ESANGDAD (SE | CONVENTION (STATE BANGING) STATES | 12. |
| Calculus III (H) | 1.5 | 92 74 | Probability and Mathematical Statistics | 2.5 | 68 | Programming Principle | 2.0 | 85 | WHO STATE WORLD AND STATE STATES | a la | CENA GENERALISES | SERVICE SERVIC | |
| Accounting | 3.0 | 06 | Fundamentals of Computer Science | 2.0 | 95 | Courses (2nd Term) | *Cr | *Sc | WALETZINE ANA CASHERMON | Medical | Overall | Overall GPA:3.87/4.0(87.73/100) | 20 |
| Military Theory | 1.5 | 68 | Courses (2nd Term) | *Cr | *Sc | Service Science | 2.0 | 92 | AN GERZHEWAY OF AN CENTED MADE | 100 | EW GDD OST | ASSANGIO ANTICO EN ANTICO ANTICO EN ASSANGIO ANTICO EN ASSANGIO ANTICO EN ASSANGIO ANTICO ASSANGIA ANTICO ASSA | 9.9 |
| Eastern and Western Philosophy II | 2.0 | 81 | Introduction to Translation Studies | 3.0 | 06 | Great Ideas in Computer Science | 2.0 | 06 | WALKER CONTRACTOR STREET | TO COL | CENTRACON CENTRACE | EDWYCHALUED EANGAN JEDYE | 2.5 |
| Credits Required for Graduation: 140+25+4+5 | duati | on: 14 | 40+25+4+5 | Credits | ts Obt | Obtained: 179.5 | ACCESSA ACCESSA | EX-VID | WALEST ELECTRONICES PER IN | Degree | Granted: | SANGDAN BY SANGDAN SPEN | 12.9 |
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| Five degree grading: Excellent(A), Good(B), Fair(C), Passing(D), Failed(E); Two degree grading: Passing(P), Failed(F). | od(B),Fai d(F). | ir(C),Pas | sing(D),Failed(E); | | Asse | Associate Provost: \$16 | 3 | | Registrar: May 17 7 | | Date Issu | Date Issued:11/27/2018 | |
| 4. Courses identified with "*" are transfe 5. Courses identified with XIR are refax | erred fror | m partner | 4.Courses identified with "*" are transferred from partner universities. 5.Courses/defitified with™⊠Rafe Fefakh and datetiaked into CPA according to the transfer right comer as a line, they | wer righ | corner as | a line, they can be seen under the magni | ifving gla | ISS. | | | | | |

1.The percentage system.Above 60 is passing 100 is full mark;
2.Five degree grading.Excellent(A),Good(B),Failed(E),
3.Two degree grading.Excellent(A),Good(B),Failed(E),
4.Courses identified with "** are transferred from partner universities.
5.Courses identified with "** are transferred from partner universities.
5.Courses/Gdeitified/With/YX/Rafe Jefakken and Calculate Formally in use since September 1,1999.
2.The fluorescent school badge of ZHEHANG University on the higher left corner will appear under the UV light. 3.The words ZUU* on the center of the report will turn purple under the smilight. 4.This style transcript has been formally in use since September 1,1999.

The system of General Point Average(GPA)

The system of GPA used for academic transcript of Zhejiang University is established as follows:

1. The relation of score to grade point:

| Percentage | Score | 100-86 | 85-83 | 82-80 | 79-77 | 76-74 | 73-71 | 70-68 | 67-65 | 64-62 | 61-60 | <60 |
|----------------|----------------|---------------|----------|-------|-------|----------|-------|-------|---------|-------|-------|---------------|
| System | Grade Point | 4.0 | 3.9 | 3.6 | 3.3 | 3.0 | 2.7 | 2.4 | 2.1 | 1.8 | 1.5 | 0 |
| Five Degree | Score | Excellent (A) | Good (B) | | F | air (C) | | | Passing | g (D) | | Failed (F) |
| Grading | Grade Point | 4.0 | 3. | .5 | | 2.5 | | | 1. | .5 | | 0 |
| Two Degree | Score | | | | P | assing (| (P) | | | | | Failed (F) |
| Grading | Grade Point | | | | | 3.0 | | | | | | 0 |

2. Formula:

$$\begin{aligned} & & & & & & & & & & & & & & & \\ & & & & & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & \\ & & \\ & & \\ & & \\ & & \\ & & \\ & \\ & & \\ & \\ & & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$$

Undergraduate School
Zhejiang University
(1)



Chu Kochen Honors College, Zhejiang University, Hangzhou, Zhejiang, P.R. China

Tel: +86-571-88206047. +86-571-88981115

Fax:+86-571-88206993 Website http://ckc.zju.edu.cn/

Certificate of Chu Kochen Honors College Students

This is to certify that Mr./Miss Zixuan ZHU (Registration No. 3150105250, born in Jan, 1997, entered Arts Honors Class in Chu Kochen Honors College of Zhejiang University through rigorous screening in September, 2015. Her/His major is Computer Science.

Arts Honors Class is an Honors Program for the top 5% students at Zhejiang University. It emphasizes students' solid academic background, as well as a wide range of knowledge, creativity and ability to undertake research work independently.

Selection

In September 2015, _59 students were selected out of approximately 1500 freshmen majoring in humanities and social sciences of the whole university, based on their high school GPA, performance in screening tests and interviews.

Curriculum

A special curriculum is designed to help students build up a solid academic background. Students in Arts Honors Class will take mathematics, economics, law, literature, philosophy, history, etc. as their fundamental courses. The curriculum also emphasizes the learning of mathematics, physics, English and computer science. The mathematics textbooks they use are the same as those for students in Mathematics Department at the university. They are also encouraged to learn graduate courses in advance.

Faculty

Students in Arts Honors Class are instructed by distinguished professors in Zhejiang University, who are with rich teaching and research experiences and full of enthusiasm for this program.

Evaluation

A strict evaluation system with elimination policy is practiced. Only students who kept outstanding academic performance record and managed to complete the program in Arts Honors Class are awarded the certificate.

Research

From their junior year, students start doing research under the supervision of outstanding professors. Through rigorous training, they gain rich research experience.

<u>Administration</u>

Students in Chu Kochen Honors College are full time undergraduate students. Compared with other undergraduate students in Zhejiang University, they enjoy more privileges in curriculum and research.

Chu Kochen Honors College Zhejiang University 27th/Nov/2018

(This certificate is invalid without the official seal of Chu Kochen Honors College.)

Zixuan ZHU

+86-181-4346-5372 | zixuanzhu0103@gmail.com

5 Yulan Rd, Yuhuatai Dist, Nanjing, Jiangsu, China 210000

EDUCATION

Zhejiang University (ZJU), Chu Kochen Honors College (CKC)

Hangzhou, Zhejiang, China

Bachelor of Engineering in Computer Science with Minor in English

Expected July 2019

Overall GPA: 3.87/4

Honors: National Scholarship, Merit Scholarship, ZJU Outstanding Student, CKC Outstanding Student

Verbal 157, Quantitative 170, Analytical Writing 3.5 **GRE:**

September 2018

TOEFL: Reading 25, Listening 29, Speaking 23, Writing 27, Total 104 October 2018

INTERNSHIP EXPERIENCE

Morgan Stanley

Shanghai, China

Summer Tech Intern

July – September 2018

- Independently developed a configurable automated deployment tool with post-deployment validation functionality on Axiom platform
- Improved software deployment accuracy from 85% to 100% and efficiency by 80%

PROJECT EXPERIENCE

Course Project: Vocabulary Building Website

March – June 2018

- Developed a vocabulary-building web application followed the MVC pattern by using PHP, MySQL, Bootstrap, CSS, and CodeIgniter
- Employed the Ebbinghaus Forgetting Curve theory to improve reviewing functionality

ZJU Student Research Training Program

June 2017 – May 2018

- Built an Android academic translation app based on Google Cloud Translation API
- Applied HMM (Hidden Markov Models) theories to build a Chinese word segmentation system
- Extended the segmentation system to an Android dictionary app with example sentences

Course Project: Musical Painting App with Social Features

September – December 2017

- As the leader of a team of three students, designed the architecture and conducted requirement analysis of an Android app with a painting canvas and social features
- Implemented a painting canvas with 10+ special rendering effects, the overall UI design and final module integration

Major Recommendation System

August – October 2016

- Initiated collaboration with the Register's Office of CKC College and designed a major recommendation mobile web application to help students choose a college major based on their interests and talents
- Received 5,000+ hits (20+ per person in freshman class) within one week of release

EXTRACURRICULAR ACTIVITIES

Secretary, Youth League Committee of CKC College Director of Internal Affairs, ZJU Formal Reception Team Member, Internet Association of ZJU

September 2015 – June 2016

September 2015 – Present

November 2017 – Present

PROGRAMMING LANGUAGES

Java, C/C++, Shell, MySQL, Python, PHP, HTML

朱梓煖,ZHU ZIXUAN Welcome to NEEA TOEFL iBT® Online

Registration System

NEEA ID: 6869408 **ETS ID:** 11816781

Account Balance: RMB¥0.00

Gender: Female **Date of Birth:** Jan 3, 1997

PROFILE

View Profile

Update Login Password

FINANCE

Payments

Request a Refund

TOEFL iBT® VALUE PACKAGE

Purchase Value Package

View Value Package

□ TOEFL iBT® REGISTRATION

Search Seats

Register for Test

View Orders

View Scores

| Finished Test | | | | | | | |
|----------------------------|----------------------------|---------------------|-------------------|---------------|----------|--|--|
| Program | TOEFL iBT® | | | | | | |
| ETS Registration Number | 0000000342 | 252558 | | | | | |
| Test Date | Sunday, Octob | per 28, 2018 | | | | | |
| Test Center | STN80041D Road Test Cer | Zhejiang Educanter) | ation Examinat | ion Authority | /(Wenhui | | |
| Test Status | CHECKED IN | | | | | | |
| Score | Reading | Listening | Speaking | Writing | Total | | |
| | 25 | 29 | 23 | 27 | 104 | | |
| | View ETS Sc | ore Report | | | | | |
| Score Review Service | Apply for Sco 23:59:59 | ore Review Servi | Deadline Deadline | : 2018-11-2 | 7 | | |
| Score Recipients | View/Add | Valid for two | years begin | with the tes | t day | | |
| Score Report | Mailing Address | | | | | | |
| Mailing | Addres | is 浙江省杭州i | 市西湖区浙江大学 | 学玉泉校区 | | | |
| | Post Cod | le 310058 | | | | | |
| | Mobil Numbe | | 628 | | | | |

⇔Log Out

Note: This report is not valid for transmission of scores to an institution.

ZIXUAN ZHU

Most Recent Test Date: May 13, 2018

Address: Room 602, Building No.8, No.5 Yulan Road, Yuhuatai Dist, Nanjing, Jiangsu, 210000 China

Registration Number: 3150473 Print Date: November 2, 2018

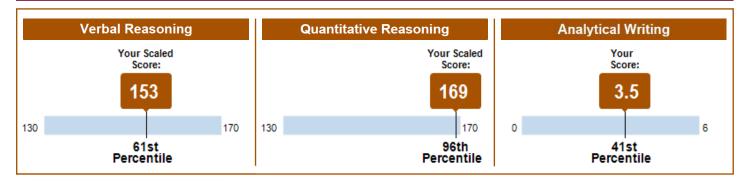
Email: zixuanzhu0103@gmail.com Phone: 86-15305198628 Date of Birth: January 3, 1997

Social Security Number (Last Four Digits):

Gender: Female

Intended Graduate Major: Computer Science (0402)

Your Scores for the General Test Taken on May 13, 2018



Your Test Score History

General Test Scores

| | Verbal Rea | asoning | Quantitative | Reasoning | Analytica | l Writing |
|--------------------|---------------|------------|---------------|------------|---------------|------------|
| Test Date | Scaled Score | Percentile | Scaled Score | Percentile | Score | Percentile |
| May 13, 2018 | 153 | 61 | 169 | 96 | 3.5 | 41 |
| March 4, 2018 | Not Available | | Not Available | | Not Available | |
| September 23, 2017 | 157 | 76 | 170 and | 96 | 3.5 | 41 |
| July 10, 2015 | 153 | 61 | 168 | 94 | 3.0 | 17 |
| May 10, 2015 | 152 | 56 | 170, and | 96 | 2.5 | 7 |

[•] Not Available - Scores are currently not available. Please allow 10-15 days after a computer-delivered test or 5 weeks after a paper-delivered test for your scores to be reported.

Subject Test Scores

You do not have reportable test scores at this time.

Your Score Recipient(s)

Undergraduate Institution

| Report Date | Institution (Code) | Department (Code) | Test Title | Test Date |
|--------------|--------------------|---------------------|------------|------------|
| itopoit Date | montation (GGas) | Dopai inioni (Godo) | 1001 11110 | . ooi Duio |





Note: This report is not valid for transmission of scores to an institution.

ZIXUAN ZHU

Most Recent Test Date: May 13, 2018

Registration Number: 3150473 Print Date: November 2, 2018

Designated Score Recipient(s)

Date of Birth: January 3, 1997

| Report Date | Score Recipient (Code) | Department (Code) | Test Title | Test Date |
|-------------|------------------------|-------------------|------------|-----------|
|-------------|------------------------|-------------------|------------|-----------|

About Your GRE® Score Report

Score Reporting Policies

With the ScoreSelect® option, you can decide which test scores to send to the institutions you designate. There are three options to choose from:

- Most Recent option Send your scores from your most recent test administration
- · All option Send your scores from all administrations in the last five years
- Any option Send your scores from one OR as many test administrations in the last five years (this option is not available on test
 day when you select up to four FREE score reports)

Scores for a test administration must be reported in their entirety. Institutions will receive score reports that show only the scores that you selected to send to them. There will be no special indication if you have taken additional GRE tests. See the *GRE® Information Bulletin* for details. The policies and procedures explained in the Bulletin for the current testing year supersede previous policies and procedures in previous bulletins.

Scores will be sent to designated score recipients approximately 10-15 days after a computer-delivered test and 5 weeks after a paper-delivered test. If your scores are not available for any reason, you will see "Not Available" in Your Test Score History.

GRE test scores are reportable according to the following policies:

- For tests taken prior to July 1, 2016, scores are reportable for five (5) years following the testing year in which you tested (July 1 –
 June 30). For example, scores for a test taken on May 15, 2015, are reportable through June 30, 2020. GRE scores earned prior to
 August 2011 are no longer reportable.
- For tests taken on or after July 1, 2016, scores are reportable for five (5) years following your test date. For example, scores for a test taken on July 3, 2016, are reportable through July 2, 2021.

Note: Score recipients will only receive scores from test administrations that you have selected to send to them.

Percentile Rank (% Below)

A percentile rank for a test score indicates the percentage of test takers who took that test and received a lower score. Regardless of when the reported scores were earned, the percentile ranks for General Test and Subject Test scores are based on the scores of all test takers who tested within the most recent three-year period.

Retaking a GRE Test

You can take the *GRE*® General Test *once every 21 days*, up to *five times* within any continuous rolling 12-month period (365 days). This applies even if you canceled your scores on a test taken previously. You can take the paper-delivered GRE General Test and *GRE*® Subject Tests as often as they are offered.

Note: This policy will be enforced even if a violation is not immediately identified (e.g., inconsistent registration information) and test scores have been reported. In such cases, the invalid scores will be canceled and score recipients will be notified of the cancellation. Test fees will be forfeited.





Note: This report is not valid for transmission of scores to an institution.

ZIXUAN ZHU

Most Recent Test Date: May 13, 2018

Registration Number: 3150473 Print Date: November 2, 2018

For More Information

Date of Birth: January 3, 1997

For information about interpreting your scores, see Interpreting Your GRE Scores at www.ets.org/gre/understand.

For detailed information about your performance on the Verbal Reasoning and Quantitative Reasoning sections of the computer-delivered GRE General Test, access the free GRE Diagnostic Service from your ETS account. This service includes a description of the types of questions you answered right and wrong, the difficulty level of each question, and the time spent on each question. This service is available approximately 15 days after your test administration and for six months following your test administration.

If you have any questions concerning your score report, email GRE Services at **gre-info@ets.org** or call 1-609-771-7670 or 1-866-473-4373 (toll free for test takers in the U.S., U.S. Territories and Canada) between 8 a.m. and 7:45 p.m. (New York Time).

Northwestern | THE GRADUATE SCHOOL

Recommendation Form

The Graduate School Northwestern University Evanston, IL 60208-1113

Applicant Name: Zixuan Zhu

Program: Computer Science: MS

Applicant Waived Rights*: This applicant has waived the right to view their recommendation.

Recommender Name: Jeffrey Zhang

Organization Name: Morgan Stanley

Title: Manager

E-mail Address: jinming.zhang@morganstanley.com

Telephone Number: [+86] 150 0060 2894

Relationship to Applicant: internship supervisor.

Certification (Date): 12-09-2018

^{*&}quot;Public Law 93-380, Educational Amendments Act of 1974, grants students the right to have access to letters of recommendation in their placement files. By selecting the "Waive access" option you are waiving access to these letters."



Jeffrey Zhang
Manager
Corporate & Funding Technology Department
Morgan Stanley (Shanghai)
12F, Kerry Parkside
1155 Fang Dian Road, Pudong
Shanghai, 201204, PR China
(+86) 150 0060 2894
jinming.zhang@morganstanley.com

Recommendation Letter for Ms. Zixuan Zhu

Dear Admissions Committee,

As a manager at Corporate & Funding Technology Department, Morgan Stanley's Shanghai Office, where Ms. Zixuan Zhu was a summer tech intern during the past summer (2018), I am very glad to recommend her to your university to further her studies.

Morgan Stanley's Shanghai office is an important IT research and development sector of the company. The project Zixuan involved in was a very special project of our company. In order to finish the required task of developing an automatic software deployment tool, Zixuan needed to learn everything about a special data management software called Axiom, not just superficially, but also the whole architecture and source code behind it. However, Zixuan left me a very good impression from the beginning when she started the learning process. She could understand everything about it with minimal help. In the software development process, Mr. Zhu could get the most out of our official instruction documents and finish the work with very little help from others. Her job came out great, well above my expectation. The software deployment tool was put into use in our research and development team before her internship ended.

I would say, Ms. Zhu is one of the most capable interns I have seen in our department. I would surely offer her a full-time job in our department. I feel sorry to lose her. In the meantime, I am sure her diligence and intelligence will enable her to perform well in your university.

Your sincerely, Jeffrey Zhang

Northwestern | THE GRADUATE SCHOOL

Recommendation Form

The Graduate School Northwestern University Evanston, IL 60208-1113

Applicant Name: Zixuan Zhu

Program: Computer Science: MS

Applicant Waived Rights*: This applicant has waived the right to view their recommendation.

Recommender Name: Wenzhong He

Organization Name: Zhejiang University

Title: Associate Professor

E-mail Address: donhwz@zju.edu.cn

Telephone Number: 86-136 0580 3421

Relationship to Applicant: instructor/student

Certification (Date): 12-08-2018

^{*&}quot;Public Law 93-380, Educational Amendments Act of 1974, grants students the right to have access to letters of recommendation in their placement files. By selecting the "Waive access" option you are waiving access to these letters."



Zhejiang University Hangzhou, China

Room 419, Building No.6 East, Zijingang Campus, Zhejiang University Hangzhou, Zhejiang, China 310058

To Whom It May Concern,

I'm writing to recommend without any reservation Miss Zixuan ZHU to your esteemed MS program in Computer Science.

I came to know Miss Zhu two years ago when she took one course I instructed. Later, she became a research assistant in my lab. We met regularly and frequently. Over the time, she was always passionate, positive, and very capable in the area of computer science and technology.

The course of *Modern Linguistics* is a very demanding selective course. A lot of students take this to challenge themselves, or to prepare for the research in the area of linguistic studies or natural language processing. Zixuan did it for both. A conscientious grader, I always push my students to challenge themselves. Zixuan always embraced these challenges with optimism and dedication. She enjoys learning and displays qualities for a true scholar. I fully expect her to do graduate level work and to effect change in whatever domain she pursues, because she naturally rises to the force of a discussion and is a passionate thinker.

At the end of this course, Zixuan came to me and expressed her interest in conducting research in this area. I then advised her to enroll in our university's student research training program, and started to supervise her on designing a translation app. Very motivated, sincere and talented, she did not need too much hand holding. She finished the development of the app within just a few months, and there's a bigger half of the time left for this funded program. So, she went way beyond my expectation and started to build a vocabulary using the translation data. By using some advanced word segmentation algorithms, she was able to put an academic dictionary online, which basically doubled the work we originally proposed. Moreover, the work was original and creative, and high-quality. I was very satisfied with her work and gave her the highest score I have ever given on a student research training program.

Apart from her impressive academic performance, she also impressed me with her personalities. She is friendly, helpful and cooperative, keeping good terms with teachers as well as fellow students. She has a clear map for her own future and has been working hard to her goal. She loves research and will be good at it. I hope you would give her favorable consideration in her admission. You would not be disappointed. If more information is needed, please feel free to contact me by phone (86-13605803421) or email (donhwz@zju.edu.cn).

Sincerely,

Wenzhong HE

Le He Wenzhonz Associate Professor of Linguistics and Translation Studies

Director of the Lab for Translation and Localization Technologies