



# ZHENGYU SONG

📍 #INTENDED CS MAJOR, #TRANSFER JUNIOR 📞 +1 (530) 761-2191

## ◦ DETAILS ◦

University of California at  
Berkeley  
#Intended CS Major  
#Transfer Junior  
+1 (530) 761-2191  
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## ★ RELEVANT COURSES & EXPERIENCES

### Relevant Courses

UC Berkeley:

- CS61A - The Structure and Interpretation of Computer Programs - Grade: A+
- CS61B - Data Structures - Grade: Currently taking
- CS70 - Discrete Mathematics and Probability Theory - Grade: Currently taking

UC Davis:

- ECS 020 - Discrete Math - Grade: A+
- ECS 032A - Intro to Programming (some basic python for non-cs major) - Grade: A
- MAT 108 - Intro Abstract Math - Grade: A
- MAT 135A - Probability - Grade: A+
- STA 013 - Elementary Statistics - Grade: A+
- STA 108 - Regression Analysis - Grade: A

### Programming Experiences

Python, R, Java, Scheme, MATLAB, SQL, Excel (for Data Analysis)

### Coursera, Math for Machine Learning, 4 hours/week, 24 weeks/year

February 2021 — August 2021

- Got the Certification of Mathematics for Machine Learning Specialization offered by Imperial College London on Coursera.
- Took courses on applications of calculus and linear algebra in machine learning.
- Optimized fitting parameters of a fitting function with Python by using chi-squared in the general case using the gradient descent method.

## ★ LEADERSHIP & COMMUNITY INVOLVEMENT

### UC Davis Mathematics Department, MAT017A Learning Assistant of Fall Quarter 2021, UC Davis, 2 hours/week, 11 weeks/year

September 2021 — December 2021

- Selected as the MAT017A (Calculus) Learning Assistant of Fall Quarter 2021.
- Attended a one-hour meeting with the professor every week to discuss the problems students encounter and the discussion session content.
- Led one-hour tutoring session per week to provide guidance and help to students.
- Attended GEL186 (Facilitating Learning in STEM) to systematically learn techs of teaching.

### Calculus Tutor at UC Davis Academic Assistance and Tutoring Centers, UC Davis, 8 hours/week, 20 weeks/year

September 2021 — May 2022

- Help UC Davis students with calculus-related courses every includes MAT21A-D for regular calculus, MAT17A-D for biological and engineering-oriented calculus, and MAT16A-D for reduced calculus.
- Accumulative help dozens of students, and long-term help two students.

## ★ HONORS & AWARDS

Dean's Honor List for Fall 2020 and Winter 2020

Certificate of Distinction, 2019 Euclid Contest

Certificate of Achievement, 2018 American Mathematics Competition 12 - Awarded to students in 10th grade and below with a score of 90 or above on the AMC 12