


# Xianya Fu

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## Education

### University of California, Los Angeles

*Bachelor of Science in Statistics and Data Science*

Los Angeles, CA

Sep. 2023 – Jun. 2025

Cumulative GPA: 3.99/4.0; Major GPA: 4.0/4.0; Dean's Honors List (2023 Fall, 2024 Spring)

### University of California, Santa Barbara

*Double Major in Statistics and Data Science and Applied Mathematics*

Santa Barbara, CA

Sep. 2021 – Jun. 2023

Cumulative GPA: 3.98/4.0; Dean's Honors List (2022 Winter, 2023 Winter, 2023 Spring)

## Research

### A Format-Character Cooperative Recognition Method for Ancient Chinese Books

Remote

*Research Assistant, Supervisor: Prof. Shijun Liu, Shandong University*

Jun. 2024 - Present

- Developed a computer-aided collaborative text recognition algorithm specifically designed for the digitization of Chinese ancient books.
- Implemented DP-LinkNet architecture for adaptive binarization to enhance text clarity and reduce image noise in degraded ancient texts.
- Employed a "character-based column determination" strategy alongside the DBNet detection algorithm to accurately identify text regions and exclude non-text elements during layout analysis.
- Applied SVTR LCNNet model combining CNN and sparse Transformer for efficient text recognition in resource-constrained environments.
- Conducted experiments that showed significant improvements in character integrity, recognition accuracy, and processing speed compared to conventional methods.

### Simulate Seismic Wave Propagation in Complex Geological Media

Los Angeles, CA

*Research Assistant, Supervisor: Prof. Lingsen Meng, UCLA*

Mar. 2024 - Present

- Reproduced and adjusted models as the baseline from five research papers related to seismic wave simulation using PINN and neuro operators.
- Participated in weekly meetings to discuss project progress and contributed to innovative optimizations.

### Reservoir Digital Twin and Flood Intelligent Decision Analysis Platform

Jinan, China

*Research Assistant, Supervisor: Prof. Shijun Liu, Shandong University Collaborative Project*

Mar. 2023 - Sep. 2023

- Constructed the flood prediction model by implementing the linear & cubic interpolation and the flood hydrograph scaling method.
- Conducted error analysis using various statistical measures, including Root Mean Square Error (RMSE), Mean Absolute Error (MAE), Euclidean Distance, and Manhattan Distance.
- Optimized database tables, reduced algorithmic loops, and utilized Flask to enhance performance, reducing runtime to 100ms and improving efficiency by 10 times.

### Shandong Big Data Research Association

Jinan, China

*Research Analyst, Supervisor: Prof. Yufeng Shi*

Jun. 2021-Dec. 2021

- Contributed to the development of a comprehensive credit evaluation model tailored for tech SMEs.
- Assisted in constructing the indicator system with 110 third-level indicators, which are designed to comprehensively measure all aspects of SMEs.

## Employment

### **SAS Software Co., Ltd**

*Analytics Intern, Product Service Delivery*

Shanghai, China

Jul. 2024 – Aug. 2024

- Participated in a project for model asset lifecycle and risk management with ICBC.
- Assisted in creating a prototype of the model management platform using Axure.
- Compiled machine learning algorithm parameters from SAS ML Viya into a presentation.

### **Jinan Allview Information Technology Co. LTD**

*VR software development Intern*

Jinan, China

Jul. 2022 - Aug. 2022

- Refined and debugged the “Stored Incident” scene, and resolved challenging issues in data modeling and 3D scene rendering capability.
- Ensured the accuracy of physical parameters and the stability of the model by testing with AR.

## Skills

Languages: English (fluent), Chinese (native)

Technical skills: Proficient in R, Java, Python, SQL, Adobe Creative Suite (Audition, Photoshop)