Tiancheng Shao

Potomac, MD 20854 | +1 (571) 789-5324 | tanchan@ucla.edu

EDUCATION

University of California, Los Angeles, Los Angeles, CA   *Sep 2025–Expected Jun 2029*

Candidate for Bachelor of Science, Business Economics

Relevant Coursework: Microeconomic Theory, Principles of Accounting

Montgomery Blair High School, Silver Spring, MD   *Aug 2021–June 2025*

Science, Mathematics, Computer Science Magnet Program   GPA: 4.9

SAT score: 1580; Writing: 390 Math: 790 Critical Reading: 400

Relevant Coursework: AP Macroeconomics (5), AP Microeconomics (5), AP Statistics (5), Analysis of Algorithms, Algorithms and Data Structures,

EXPERIENCE

NASA Goddard Space Flight Center | *Research Intern*, Greenbelt, Maryland   *Jun 2024-Aug 2024*

- Led independent analysis of May 2024 solar storm, using Linear Regression and LSTM Artificial Intelligence models to predict proton and electron flux.
- Presented results to peers and senior scientists at the 2024 American Geophysical Union (AGU) meeting.
- Shared research with 25,000+ global attendees.

CISESS at University of Maryland | *Research Intern*, College Park, Maryland   *Jun 2023–Aug 2023*

- Built TensorFlow U-NET model for satellite image segmentation to track Iceberg A73 over 700+ Kilometers
- Automated iceberg size, rotation, and location metrics using OpenCV computer vision.
- Presented findings at the 2024 American Meteorological Society (AMS) Meeting.

Department of Astronomy University of Maryland | *Research Intern*, College Park, Maryland   *Jul 2022–Nov 2022*

- Developed LSTM models predicting Disturbance Storm Time (Dst) indices by integrating WIND satellite and ground observatory data.
- Predicted Storm Intensity within 98% accuracy with 8-hour advance warning.

EcoMoco Student Organization | *Executive Board Member,* Rockville Maryland   *Aug 2024–Jun 2025*

- Led website redevelopment for ecomoco.com, a student environmental organization with 217 members.
- Worked with other board members to plan 100+ projects impacting 10000+ people

Projects

DECA VBC| Competitor   *Jan 2024-Feb 2024*

- Built an automated advertising budget system using PyAutoGUI, PIL, and OpenCV.
- Optimized audience targeting from simulated poll data with Excel.

AWARDS + HONORS

- International Finalist for Accounting Applications (DECA ICDC)   *2024, 2025*
- ExploraVision Semifinalist (Toshiba/NSTA STEM Competition)   *2024*
- Non-Trivial Fellowship Finalist (National Research Fellowship Program)   *2024*

SKILLS

Technical: Microsoft 365, Python, R, Java, SQL, PowerShell,

Interests: Making websites, Playing guitar