

CV of Xizhe SONG
hsichesung@berkeley.edu

PERSONAL

Name Xizhe SONG
Nationality Chinese

Date of Birth June 21, 2004
Gender Male

UNDERGRADUATE: University of Science and Technology of China (USTC)

Enrolled 09.2021 — **Expected** 06.2025
Major Space Science and Technology, Space Physics track

GPA 3.6/4.30
School School of the Gifted Young

EXPERIENCE

Space radiation research group
09.2022 – 06.2023

University of Science and Technology of China

- Getting familiar with research on space radiation

Analysis of a solar eruption and consequential space weather
07.2023

University of Science and Technology of China

- Part of the course Practices of Space Detection at USTC
- Plotting geomagnetic indices as measured by four stations
- Plotting solar wind and magnetic field data
- Constructing the narrative of the event out of relevant data

Visiting student to University of California, Berkeley
01.2024 - 05.2024

University of California, Berkeley

- Visiting student to University of California, Berkeley
- Part of the spring 2024 Berkeley Global Access program

Research on magnetic switchbacks
09.2024 - Ongoing

University of California, Berkeley

- Under the guidance of Prof. Stuart Bale of UC Berkeley
- Plotting solar wind and magnetic field data during PSP's solar encounters
- Identifying magnetic switchbacks in measured data by wavelet transform and by eye
- Attempt to connect identified switchbacks to granules and supergranules

SKILLS

- **Relevant Courses:** Plasma physics, fluid dynamics, magnetohydrodynamics, introduction to space physics, etc.
- **Programming:** Basic skills in Python and Fortran 90.
- **English:** Fluent. 113/120 on TOEFL iBT and 333/340 on GRE General.
- **Miscellaneous:** Basic understanding in Western philosophy.