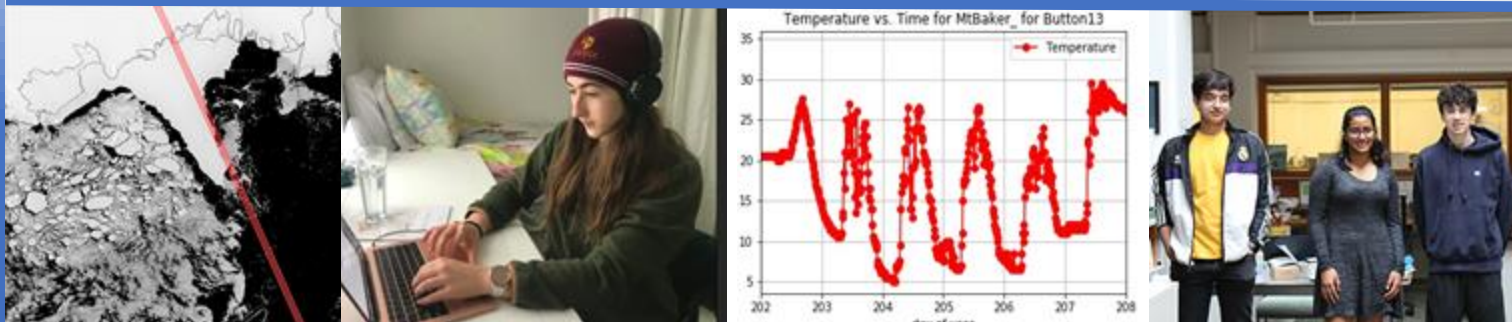


Earth and Space Research – Summer Institute

24 June 2024 – 19 July 2024



The Earth and Space Research - Summer Institute (ESR-SI) is a four-week summer research experience in which students engage in mentored research projects alongside professional scientists in an authentic research setting. Students will work towards tangible, externally-visible outcomes (e.g., educational blog posts, presentations at regional and national conferences, peer-reviewed publications).

The projects this year will be:

- 1) The Antarctic Cryosphere and Climate,
- 2) the Weather and Climate of Mount Baker, and
- 3) Evaluation of Solar Reflectance Geoengineering Interventions.

Students will be mentored by [Dr. Michael Town](#) of ESR (www.esr.org), a Seattle-based non-profit research institute. Students will be exposed to a mixture of state-of-the-art data analysis techniques (Python, Pandas, and Google Earth Engine), satellite data (e.g. Sentinel-2, LANDSAT-8), other weather and climate data products (e.g. ERA5). They will interact with other professional scientists at ESR and the University of Washington. Students will experience field work during a one-day trip to the Mt. Baker Wilderness Area.

Who Should Apply: This experience is open to all rising Sophomore, Junior, and Senior high school students. Successful applicants are responsible, motivated students in good academic standing at their current institution. They will have demonstrated facility with data analysis (e.g., managing, plotting, and summarizing data) in Excel or Python.

How to apply: Interested students should apply by filling out the application google form linked here by *April 19, 2024*. Acceptance letters will be sent by *May 10, 2024*. Payment for the experience will be required for enrollment upon acceptance. The application process asks for a few short-essay questions and two adults to act as academic references. The academic references will only be asked to answer brief questions via a 10-minute phone call or a short email. (NOTE: the original deadline was extended from March 1, 2024).

This course will be offered *in-person* for Summer 2024 at the ESR Offices in the University District of Seattle. Online attendance is possible under extenuating circumstances. The course will move online in the case of COVID-related shutdowns. There will be one in-person event at the University of Washington, and one day-long field trip to the Mt. Baker National Recreation Area.

Dates/times: 24 June 2024 – 19 July 2024; 9 am – 1:30 pm (no meetings July 4 or July 5).

Tuition – \$2250

Student to mentor ratio is maximum 5:1. Apply now!

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