

**Opportunity Title:** Polar Atmospheric Processes and Their Interactions with the Surface

**Opportunity Reference Code:** 0183-NPP-NOV23-GSFC-EarthSci

**Organization** National Aeronautics and Space Administration (NASA)

**Reference Code** 0183-NPP-NOV23-GSFC-EarthSci

**Application Deadline** 11/1/2023 6:00:59 PM Eastern Time Zone

**Description** The Earth's Arctic and Antarctic regions are experiencing unprecedented changes, which will have profound effects on the global climate, society and biodiversity. Given the complexity of polar climate, a complete understanding requires a continuous effort in observation, modeling, and a thorough analysis of each component and their interactions.

This research focuses on studying the Arctic/Antarctic atmospheric processes and their interactions with the ice sheets and the oceans. Specific topics include (1) polar radiative processes; (2) properties of cloud and blowing snow over the polar regions; (3) effects of cloud and other atmospheric events, e.g., blowing snow, on polar radiation budget and surface melting; and (3) polar boundary layer processes. Research tools include radiative transfer simulations, numerical modeling and remote sensing. Both surface observations and data from NASA's satellites are used for the investigations.

**Location:**

Goddard Space Flight Center  
Greenbelt, Maryland

**Field of Science:**Earth Science

**Advisors:**

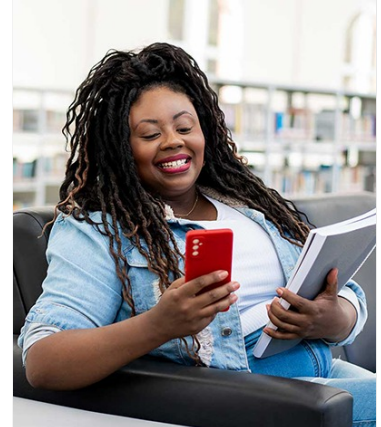
Yuekui Yang  
yuekui.yang-1@nasa.gov  
301-614-6313

**Applications with citizens from Designated Countries will not be accepted at this time, unless they are Legal Permanent Residents of the United States.** A complete list of Designated Countries can be found at: <https://www.nasa.gov/oiir/export-control>.

Eligibility is currently open to:

- U.S. Citizens;
- U.S. Lawful Permanent Residents (LPR);
- Foreign Nationals eligible for an Exchange Visitor J-1 visa status; and,
- Applicants for LPR, asylees, or refugees in the U.S. at the time of application with 1) a valid EAD card and 2) I-485 or I-589 forms in pending status

**Eligibility Requirements** • **Degree:** Doctoral Degree.



Whether you are just starting your career or already at a senior level, ORAU offers internships, fellowships, research opportunities, and contract positions that can provide you with invaluable experience. Download the ORAU Pathfinder mobile app and find the right opportunity to propel you along your career path!

Visit ORAU Pathfinder [↗](#)

