

**Opportunity Title:** Astrophysics: Theoretical Studies in Extragalactic Astronomy and Cosmology

**Opportunity Reference Code:** 0083-NPP-NOV23-GSFC-Astrophys

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

**Reference Code** 0083-NPP-NOV23-GSFC-Astrophys

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

**Description** Our theoretical studies cover a broad range of solar system, galactic, extragalactic, and cosmological subjects, using or modeling satellite and ground-based data.

Areas of active research include: (1) studying the nature and evolution of the Extragalactic Background Light (EBL), and its effect on the TeV gamma-ray opacity of the universe; (2) modeling the evolution of the stellar population, spectrum, metallicity, and dust content in the Milky Way, in local, and in high-redshift galaxies; (3) determining the formation, destruction, evolution, and nature of dust in various astrophysical sources and environments such as: supernovae and their remnants, AGB stars, molecular clouds, dusty plasmas, and the diffuse interstellar medium; and (4) deriving the morphology and spectrum if the interplanetary dust cloud for cosmological studies.

**Location:**

Goddard Space Flight Center  
Greenbelt, Maryland

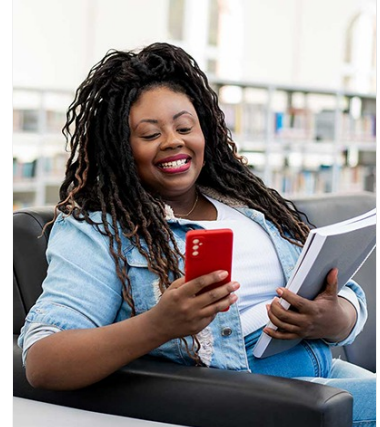
**Field of Science:**Astrophysics

**Advisors:**

Eric Switzer  
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301-614-0921

**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/oijr/export-control>.

Eligibility is currently open to:



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- 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.