

**Opportunity Title:** Phenomenological cosmology in the Planck era

**Opportunity Reference Code:** 0071-NPP-NOV23-JPL-Astrophys

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

**Reference Code** 0071-NPP-NOV23-JPL-Astrophys

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

**Description** Cosmology has flourished in the decades, emerging as a data-driven science whose phenomenological modeling has reached a form of convergence. This success entails new questions: the nature of dark energy and dark matter, the origin and evolution of the large-scale structures, and the details of the ionization history of the Universe.

The candidate will aim at addressing these salient issues with novel theoretical insights, observational probes, data analysis methods, or measurements. I expect the NPP post-doctoral scholar to conduct independent research relevant to current and future potential NASA mission such as SPHEREx, the Nancy Grace Roman Space Telescope, and Euclid, and to articulate their scientific synergies with on-going ground based efforts such as the Vera C. Rubin Observatory, the Simons Observatory, or CMB-S4.

**Location:**

Jet Propulsion Laboratory  
Pasadena, California

**Field of Science:** Astrophysics

**Advisors:**

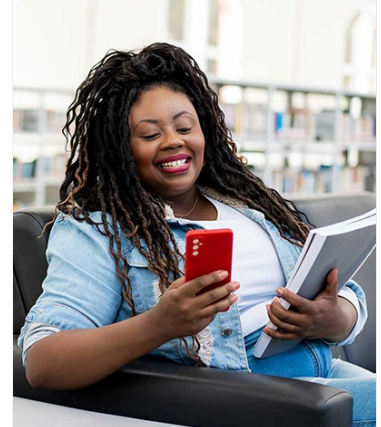
Olivier Doré@  
Olivier.P.Dore@jpl.nasa.gov  
818 354-0690

**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.



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