

Opportunity Title: Joint Analysis in Large-scale Structure Cosmology

Opportunity Reference Code: 0271-NPP-MAR26-JPL-Astrophys

Organization National Aeronautics and Space Administration (NASA)

Reference Code 0271-NPP-MAR26-JPL-Astrophys

How to Apply All applications must be submitted in [Zintellect](#)

Please visit the NASA Postdoctoral Program website for application instructions and requirements: [How to Apply | NASA Postdoctoral Program \(oua.org\)](#).

A complete application to the NASA Postdoctoral Program includes:

1. Research proposal
2. Three letters of recommendation
3. Official doctoral transcript documents

Application Deadline 4/2/2026 6:00:59 PM Eastern Time Zone

Description About the [NASA Postdoctoral Program](#)

The [NASA Postdoctoral Program \(NPP\)](#) offers unique research opportunities to highly-talented scientists to engage in ongoing NASA research projects at a NASA Center, NASA Headquarters, or at a NASA-affiliated research institute. These one- to three-year fellowships are competitive and are designed to advance NASA's missions in space science, Earth science, aeronautics, space operations, exploration systems, and astrobiology.

Description:

At JPL, our "Dark Sector" cosmology group has been focused on pursuing various strategies to better understand and mitigate experimental and modeling effects on our measurements of cosmological parameters, and conclusions we draw about the nature of dark energy and dark matter. With the advent of ambitious new dark energy surveys this decade, the requirement for the thorough understanding and mitigation of such effects has intensified. We participate in various space- and ground-based cosmology surveys. As one of the main avenues towards addressing observational effects and increasing the precision and accuracy of our measurements of cosmological parameters, we have been making significant efforts towards jointly analyzing data from cosmological large-scale surveys. We are very actively involved in space-based cosmology missions, ESA's Euclid and NASA's Roman, as well as several ground-based experiments, like the Dark Energy Survey. We work on both of the main large-scale structure probes: weak gravitational lensing, as well as galaxy clustering (including redshift-space distortions), and collaborate in building up a joint analysis of the two.

The NPP fellow will conduct independent research on the topic of large-scale structure cosmology, ideally with a specific focus on spectroscopic galaxy clustering. They will closely collaborate with rest of the Dark Sector team on projects furthering our understanding of dark energy and dark



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matter cosmology by addressing any of the following general topics: likelihood analysis, theoretical modeling of the small scales, or observational systematic effects. Ideas for further related topics are warmly welcome. Please contact Dida Markovic for further discussion of topics of interest.

Field of Science: Astrophysics

Advisors:

Katarina Markovic
katarina.markovic@jpl.nasa.gov
(818) 354-9981

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/oior/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

Questions about this opportunity? Please email npp@orau.org

Point of Contact [Mikeala](#)

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