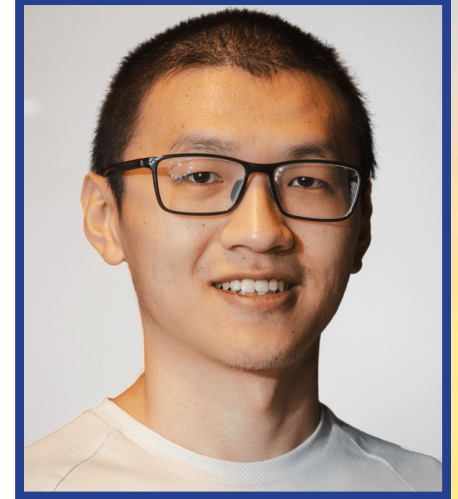


Dr. Peijin Zhang

NASA Jack Eddy Postdoctoral Fellow

Decoding Solar Eruptions and Coronal Structure with Radio Imaging Spectroscopy and Modeling



DATE: Wednesday, June 18, 2025

TIME: 11:00 AM – 12:00 PM MT (VIRTUAL)

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SUMMARY: Understanding solar activity, particularly in the middle corona, is essential for both fundamental astrophysics and spaceweather forecasting. In this seminar, I will explore how radio imaging spectroscopy offers a powerful viewing perspective into this dynamic region. I will present recent research using radio observations of type III bursts to trace energetic electron beams, type II bursts to investigate CME-driven shocks, and angular broadening of background celestial sources to probe coronal turbulence.

Peijin Zhang is a NASA Jack Eddy Postdoctoral Fellow hosted by the Center for Solar-Terrestrial Research (CSTR) at New Jersey Institute of Technology (NJIT). His research focuses on solar radio astronomy, space weather, and the physical processes in the solar corona and heliosphere. He specializes in low-frequency radio imaging using facilities such as the Owens Valley Radio Observatory Long Wavelength Array (OVRO-LWA) and LOFAR, with particular expertise in data processing, interferometric imaging, and solar radio burst analysis.

CONTACT: CPAESS Discovery Seminars Coordinator Dawn Mullally mullally@ucar.edu

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