

The Keck Institute for Space Studies  
presents the following webinar:

# Probing Worlds Beyond our Solar System

**Dr. Nikole Lewis**

*Assistant Professor, Cornell University and  
Deputy Director, Carl Sagan Institute*

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**Tuesday  
December 7, 2021  
5:00 PM Lecture**

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Since the discovery of the first planets beyond the solar system more than 25 years ago, the field of exoplanet science has expanded rapidly. We now know of more than 4,000 confirmed exoplanets, most of which bear little resemblance to the planets within our Solar System.

Dr. Lewis will discuss the methods we use to both detect exoplanets and study them in detail. With current and upcoming observational facilities such as the Hubble Space Telescope and the soon to launch James Webb Space Telescope, researchers will have the opportunity to study the atmospheres of these distant worlds. Such observations provide a critical step in understanding planet formation and assessing the potential habitability of exoplanets.

Finally, she will discuss recent results and provide a look forward to future observations that will help us to answer the question "Are we alone in the Universe?"

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**Registration is required at [kiss.caltech.edu](https://kiss.caltech.edu)**