

COLUMBIA ASTRONOMY OUTREACH PRESENTS:



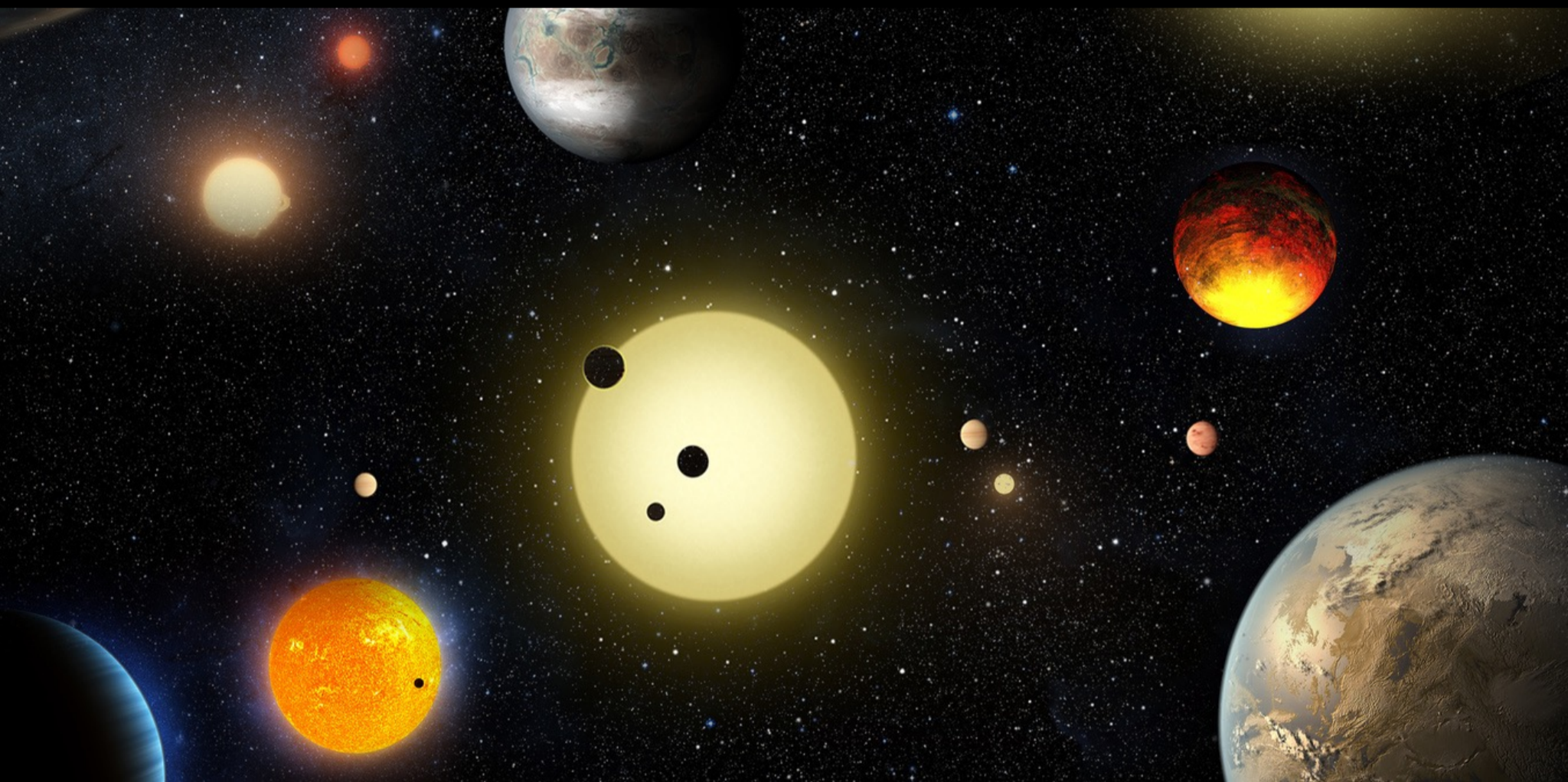
# STARGAZING & LECTURE SERIES

## Exoplanets Through the Ages

Ruth Angus

Friday, May 5th, 8:00PM

Pupin Hall, Columbia University



Intelligent life took around 3 billion years to emerge on the Earth, but is this 'typical'? Could other intelligent civilizations evolve faster? We can learn about the timescales for emergent life by measuring the ages of distant planetary systems. Planets are the same age as their host stars, but determining the age of a star is really hard. A new method for measuring ages is by "listening" to a star's acoustic oscillations. In this talk I will discuss how we measure the ages of stars and what we can learn about the evolution of exoplanets (and life) when we do.

These are free lectures at a public level followed by guided stargazing with telescopes (weather permitting). All events are held at Pupin Hall at Columbia University. No reservations are needed. Lectures are 30 minutes, stargazing lasts 90 minutes. Stay only as long as you want.

For directions, weather updates and more information, please visit:

<http://outreach.astro.columbia.edu>