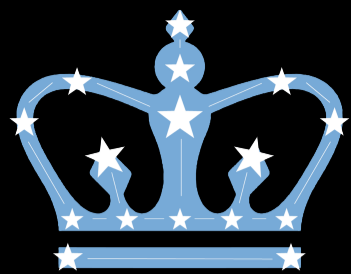


COLUMBIA ASTRONOMY OUTREACH PRESENTS:



# STARGAZING & LECTURE SERIES

## NASA's James Webb Space Telescope: Infant Galaxies and Alien Atmospheres

Amber Straughn

Friday, November 30th, 7:00PM

Pupin Hall, Columbia University

For almost a quarter century, the Hubble Space Telescope has been revealing the unknown cosmos; this single scientific instrument has completely revolutionized our understanding of the Universe. Despite the remarkable advances in astronomy that Hubble has provided, the new questions that have arisen demand a new space telescope with new technologies and capabilities. I will present the exciting new technology development and science goals of Hubble's ~100x-more-powerful successor, NASA's James Webb Space Telescope (JWST), which is currently being built and tested and will launch in 2021. JWST is designed to unravel some of the greatest mysteries of the universe, from discovering the first stars and galaxies that formed after the Big Bang to studying the atmospheres of planets around other stars.

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>