

**Name:** Ell Bogat (they/them pronouns)

**Code:** 667

**Home institution:** NASA Goddard / CRESST II / SURA

**Name of task:** Instrumentation for Spectroscopic Imaging of Exoplanets/Post-Baccalaureate Research Scientist

**Role in task/What do you do for CRESST:**

Ell helps to prepare for the launch of the Nancy Grace Roman Space Telescope by developing simulations of its Coronagraph Instrument. This will inform our choice of exoplanet systems to target for direct imaging, following the observatory's launch in the mid 2020's.



**What is your Background:**

Ell received Bachelor of Science degrees in Physics and Astronomy from the University of Texas at Austin in 2017. Following graduation, they spent three years on the Mars Reconnaissance Team at NASA Headquarters helping to develop human missions to Mars. Ell is now preparing to begin the astronomy PhD program at the University of Maryland College Park, where they will continue their research on exoplanets and planetary systems.

**Favorite part of being a CRESST Scientist:**

Ell's favorite part of being a CRESST Scientist is meeting experts in so many areas of astronomy.

**Relevant Publications/Presentations:**

Publications:

- M. Turnbull, N. Zimmerman et al. "A Community Exoplanet Imaging Data Challenge for Roman CGI and Starshade Rendezvous" *J. of Astronomical Telescopes, Instruments, and Systems*, 7(2), 021218 (2021). <https://doi.org/10.1117/1.JATIS.7.2.021218>

Conference Presentations:

- "A Public Data Challenge for Exoplanet Science with the Roman Space Telescope Coronagraph Instrument" NASA Goddard Early Career Science Forum – November 2020
- "Predictions for High-Contrast Imaging of Confirmed Exoplanets with the Roman Space Telescope" Sellers Exoplanet Environments Collaboration Meeting – May 2021

**To Contact Ell to learn more about their work or collaboration, they can be reached at:**

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