



Problem solvers needed!
August 30 – September 17, 2021

DATA SCIENCE CHALLENGE

Application deadline: May 9, 2021 midnight

The CHALLENGE: to solve an exciting problem in astronomy for planetary defense.

Near Earth Objects (NEOs) include potentially hazardous asteroids that pose a large or even existential threat to humanity. At the same time, NEOs offer clues about the origin of our Solar System. Modern astronomical sky surveys are collecting substantial data on NEOs, but it is difficult to distinguish objects of interest from more distant asteroids and stars in optical telescope images.

IN THIS CHALLENGE, you will apply machine learning methods to recent time-domain optical astronomy data from the [Zwicky Transient Facility \(ZTF\)](#) to detect, distinguish, and characterize asteroids that may pass near Earth in the future.

INFORMATION SESSION: Wednesday, April 14 1:00PM – 2:00PM

[Join Info Session](#)

Meeting number (access code): 199 067 3972

Meeting password: mfMzpMQ*424

Join by phone

+1-415-527-5035 US Toll

+1-929-251-9612 USA Toll 2

Join from a video system or application

Dial 1990673972@llnlfed.webex.com

You can also dial 207.182.190.20 and enter your meeting number.

Questions?



Brian Gallagher, LLNL
gallagher23@llnl.gov



Jennifer Bellig, LLNL
bellig1@llnl.gov



Vagelis Papalexakis, UC Riverside
epapalex@cs.ucr.edu

data-science.llnl.gov/riverside

