

The College of Arts & Sciences
Department of Mathematical Sciences

Colloquium

Amy Braverman, Ph.D.

Jet Propulsion Laboratory, California Institute of Technology

Thursday, January 25, 2024

French Hall West, Room 4211

4:00-5:00pm

Statistical Challenges for the Next Generation of NASA's Earth Observing Satellites

In this talk I will discuss the new generation of NASA's Earth-orbiting satellites: the Earth System Observatory (ESO). ESO includes four new missions, one of which is the Surface Biology and Geology (SBG) mission. I will focus on SBG in this talk since it is in the initial stages of development, and it is the ESO mission for which we statisticians are already significantly involved. After introducing the mission, its science objectives, and data collection, I will delineate three kinds of statistical challenges we face: science analysis, data processing, and uncertainty quantification

**Refreshments will be served 3:15-3:45 pm in the Faculty Lounge
4118 French Hall West**

UNIVERSITY OF 
Cincinnati