



# NASA's 2024 Human Lander Challenge

# FORUM LIVESTREAM AGENDA

All times are listed in Central Time (CT).

<https://vimeo.com/showcase/HuLC>

## TUESDAY, JUNE 25, 2024

9:20 - 10:05 AM

### TEXAS A&M UNIVERSITY

*Maroon Moon: Preliminary Surface Stabilization to Mitigate Lunar Plume Surface Interaction*

Advisors: Dr. John Connolly and Dr. Jean-Louis Briaud

10:20 - 11:05 AM

### UNIVERSITY OF ILLINOIS, URBANA-CHAMPAIGN

*HINDER: Holistic Integration of Navigational Dynamics for Erosion Reduction*

Advisor: Dr. Laura Villafaña Roca

11:10 AM - 12:15 PM

### COLORADO SCHOOL OF MINES

*Prudent Landers: Fresnel Lens Sintered Lunar Regolith Landing Pad*

Advisors: Dr. Angel Abbud-Madrid, Prof. Mark Florida, and David Purcell

1:30 - 2:15 PM

### TEXAS STATE UNIVERSITY

*Numerical Simulation and Physical Validation of Regolith Ejecta During Plume Surface Interaction*

Advisor: Dr. Bin Xiao

2:20 - 3:05 PM

### OHIO NORTHERN UNIVERSITY

*HuLC Smash*

Advisor: Dr. Louis DiBerardino

3:20 - 4:05 PM

### UNIVERSITY OF MICHIGAN

*ARC-LIGHT: Algorithm for Robust Characterization of Lunar surface Imaging for Ground Hazards and Trajectory*

Advisors: Dr. Mirko Gamba and Dr. Chris Ruf

## WEDNESDAY, JUNE 26, 2024

9:00 - 9:45 AM

### UNIVERSITY OF COLORADO, BOULDER

*Lunar Surface Assessment Tool (LSAT): A Simulation of Lunar Dust Dynamics for Risk Analysis*

Advisor: Dr. James Nabity

9:50 - 10:35 AM

### THE COLLEGE OF NEW JERSEY

*TCNJ Adaptable Regolith Retention Program (TARRP)*

Advisor: Dr. Mohammed Alabsi

10:50 - 11:35 AM

### TEXAS A&M UNIVERSITY

*Synthetic Orbital Landing Area for Crater Elimination (SOLACE)*

Advisor: Dr. Helen Reed

11:40 AM - 12:25 PM

### EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, PRESCOTT

*Plume Additive for Reducing Surface Ejecta and Cratering (PARSEC)*

Advisor: Dr. Siwei Fan

1:45 - 2:30 PM

### UNIVERSITY OF CALIFORNIA, SAN DIEGO

*MOON Pads: Microwave-Sintering Operations Of Nanophase-Iron Pads*

Advisors: Dr. Amy Eguchi, Dr. Zahra Sadeghizadeh, and Dr. Ross Turner

2:35 - 3:20 PM

### EMBRY-RIDDLE AERONAUTICAL UNIVERSITY, DAYTONA BEACH

*Ceramic Research Advancement Technology at Embry-Riddle (CRATER)*

Advisor: Dr. Seetha Raghavan