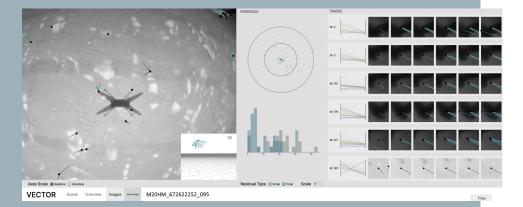
#### 2022 CALTECH/JPL/ART CENTER

# DATA TO DISCOVERY VISUALIZATION SUMMER INTERNSHIP PROGRAM FINAL PRESENTATIONS

THURSDAY AUGUST 18th 2022 | 10AM-12PM PDT | ZOOM bit.ly/d2d-finalpresentations-22







# [SOLUTION]

[PROBLEM]

PI: Mauricio HESS-FLORES | JPL

o global optimization variables. Uui ientists to improve the accuracy of isional mesh that is algorithmically erived from 2-dimensional imaging

## RAFT

PI: Cedric DAVID | JPL

### [PROBLEM]

Understanding how water flows across rivers systems is limited. Scientists do not have aggregate comparison tools to extrapolate river ater behavior across observation points & time.

#### [SOLUTION]

## PI: Kris WEHAGE | JPL

#### [PROBLEM]

Mars Rover Planners are studying the potential for AutoNav Monte Carlo simulations to help them assess the risks of extended automatic navigation over challenging topography.

#### [SOLUTION]

Ne present GRIT, a tool for Rover planners to sualize the results of a large set of Monte Carlo i simulations, interact and filter the simulations pling in depth investigation of the probability of cracing runs incurring unnecessary costs. Furthe capabilities to investigate failed mission simulations can lead to better intuition of the overall terrain and can even foment the marking o explicit keep-out zones to help lower probability o rover mission failure

> RACQUEL FYGENSON | MATT HONG | KAZI JAWAD | ISABEL LI | ALEX LIM JPL SCOTT DAVIDOFF ART CENTER MAGGIE HENDRIE CALTECH+ARTCENTER SANTIAGO LOMBEYDA CALTECH HILLARY MUSHKIN

INTERNS PROGRAM ORGANIZERS

THURSDAY.AUG.18 | 10AM-12PM PDT | Z00M bit.ly/d2d-finalpresentations-22