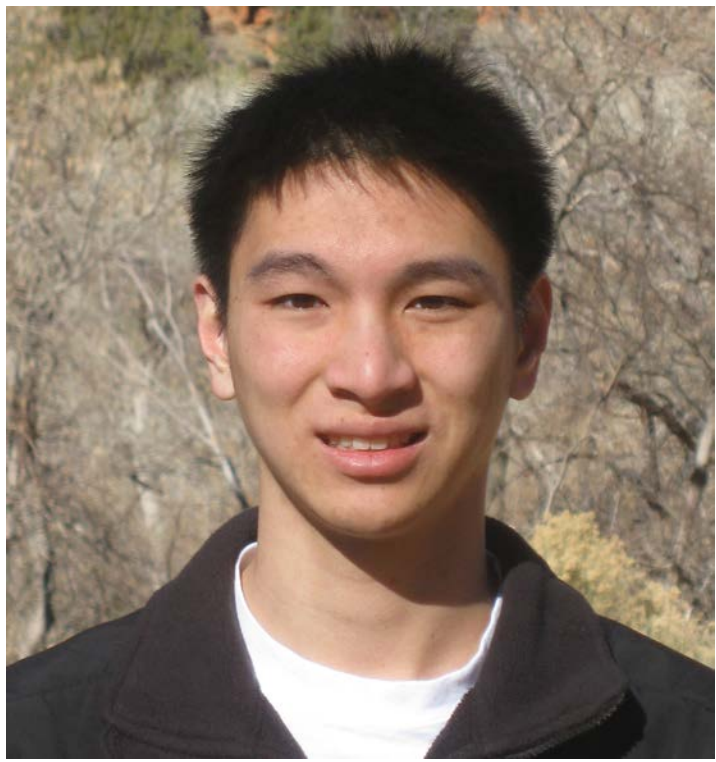


# The Field Robotics Center

## Seminar Series

Wednesday, 4th Nov    **GHC 2109 12:00 – 1:00pm**



Lunch will be served

**Eugene Fang**

M.S. Student  
Robotics Institute

### Route Determination for Planetary Rovers

**Abstract:** One of the primary challenges of planetary rover exploration is route determination. Determining a rover's route is crucial for path planning, operational awareness, and quantifying scientific discoveries (e.g. to determine the relative locations and distances among interesting landmarks). Many methods of route determination on Earth are not sufficient for GPS-denied regions such as the Moon. This talk presents a method of determining the route a rover has traversed on a planetary body by combining various absolute and relative measurements of a rover's pose.

**Speaker Bio:** Eugene Fang is a M.S. student in the Robotics Institute advised by William "Red" Whittaker. He received a B.S. in Electrical Engineering and Computer Sciences from the University of California, Berkeley in 2014. His current research focuses on route determination for planetary rovers.



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