

# Master's thesis project offer

## Flow of Lunar regolith and its simulants

### Project description

The success or failure of exploration missions to sand-covered celestial bodies like the Moon or Mars will depend on humans' ability to understand and overcome the challenges posed by those environments, among which, dealing with the overwhelming presence of regolith (Lunar sand).

In this project, we will:

- Use a new method to reinterpret data collected by the Apollo and Luna missions.
- Develop an experimental technique to probe the ultimate stability height of vertical pile of material, and the slope formed by the material once it collapses.
- Characterize five widely used regolith simulants, and compare those materials to the flow-behavior of Lunar regolith *on the Moon*.

### Contact

Starting and finishing dates are flexible.  
Questions and expression of interest  
should addressed to Olfa D'Angelo:

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