Advancing understanding of geomorphology with topographic analysis emphasizing high resolution topography

Welcome!
Introduction to the course

- Advance understanding of geomorphology with raster topographic analysis emphasizing high-resolution topography.

- **Course Objectives:**
  - Achieve a general understanding of sources and characteristics of digital elevation model data
  - Appreciate major applications of topographic analysis in geosciences, emphasizing geomorphology
  - Increase fluency with topographic analysis tools (esp. TopoToolbox)
  - Apply understanding to student's own projects

- Class web site: [http://www.opentopography.org/workshops/advancing_understanding_geomorphology_topographic_analysis](http://www.opentopography.org/workshops/advancing_understanding_geomorphology_topographic_analysis)
Introductions of participants

- Name and current institution
- Your research interests
- What you would like to take away from the course
General plan for the course

- **Monday**
  - Science examples, OpenTopography, ArcGIS and DEMs, Intro to Matlab
- **Tuesday**
  - TopoToolbox in Matlab
- **Wednesday**
  - Tectonic geomorphology and topographic metrics
- **Thursday morning**
  - Student presentations and discussion
Student presentations

- Individually or in small groups
- Use topographic analysis to address and explore research question. Can be one you are currently working on or something new. You can pull data from OpenTopography if needed.
- Work on it progressively as we move through examples and exercises
- 5-10 minutes presentation on problem of interest, analyses completed, and results on Thursday morning
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June 12-15, 2017

Locations

Herr Lehman’s (reception today after course)