

# 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

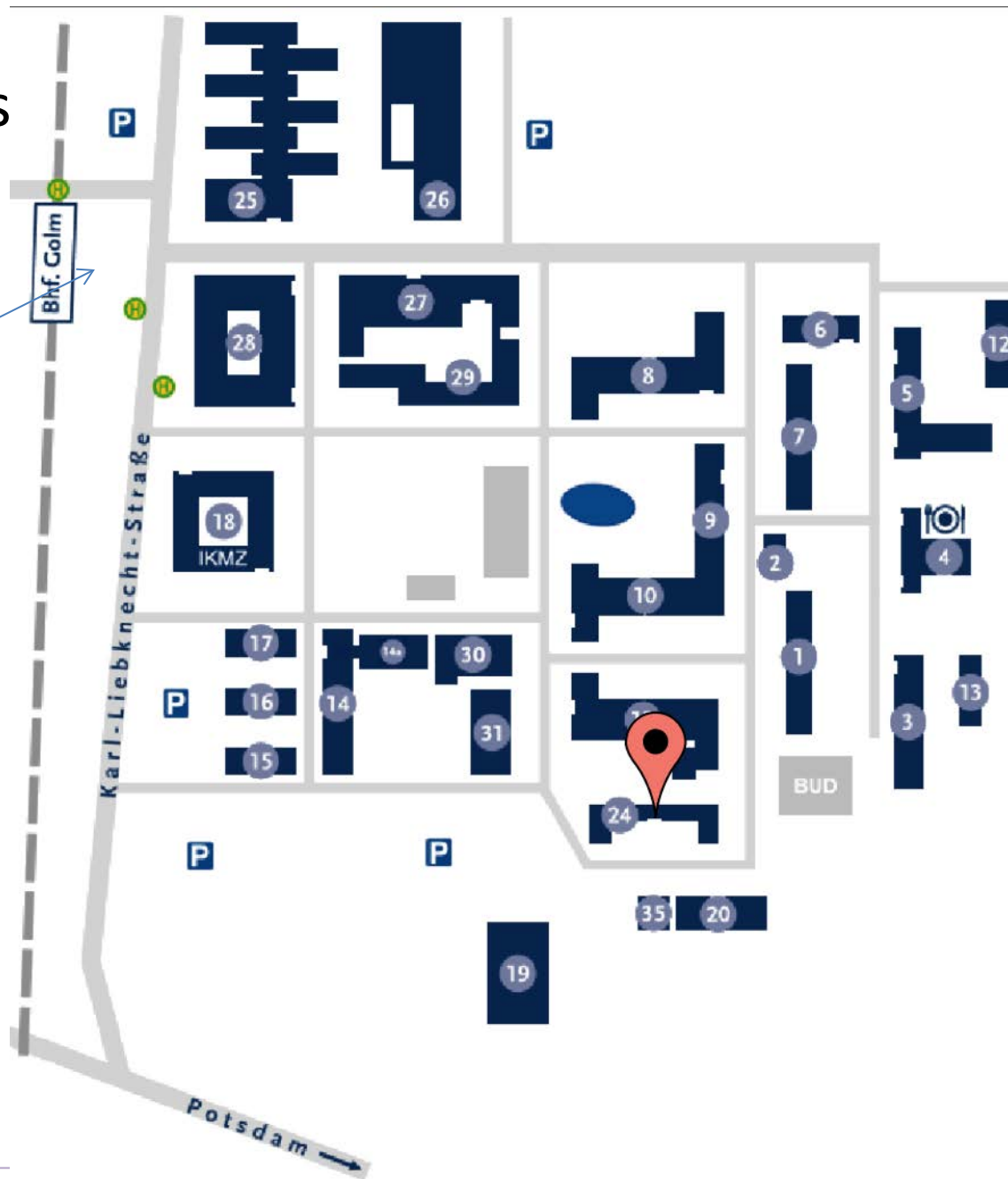
- Monday
  - Science examples, OpenTopography, ArcGIS and DEMs, Intro to Matlab
- Tuesday
  - TopoToolbox in Matlab
- Wednesday
  - Tectonic geomorphology and topographic metrics
- Thursday morning
  - Student presentations and discussion

# 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

# Locations

Herr Lehman's  
(reception  
today after  
course)



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June 12-15, 2017