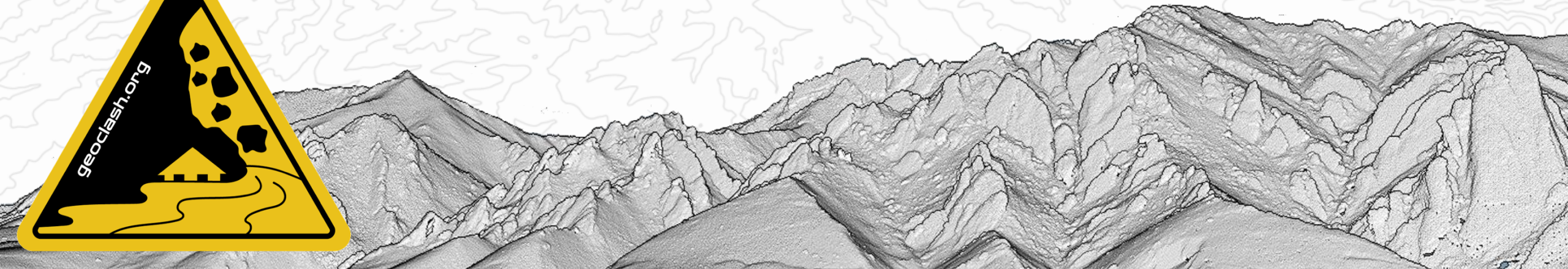
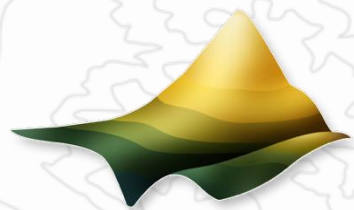


Multi-Temporal Topographic Analysis of Natural Hazards Using OpenTopography

Cassandra Brigham & Chelsea Scott (ASU)
Christopher Crosby & Matthew Beckley (EarthScope)

2026 NSF Center for Land Surface Hazards (CLaSH) Workshop | Sept. 23, 2026





Short course web page:

<https://opentopography.org/workshops/26CLaSH>



Tentative Agenda:

9:00: Welcome & intros (Crosby)

9:25: Data access review (Crosby)

10:05: Intro to topographic differencing (Scott)

10:50: *Break*

11:05: OT differencing tools & activity (Brigham)

12:30: *Lunch*

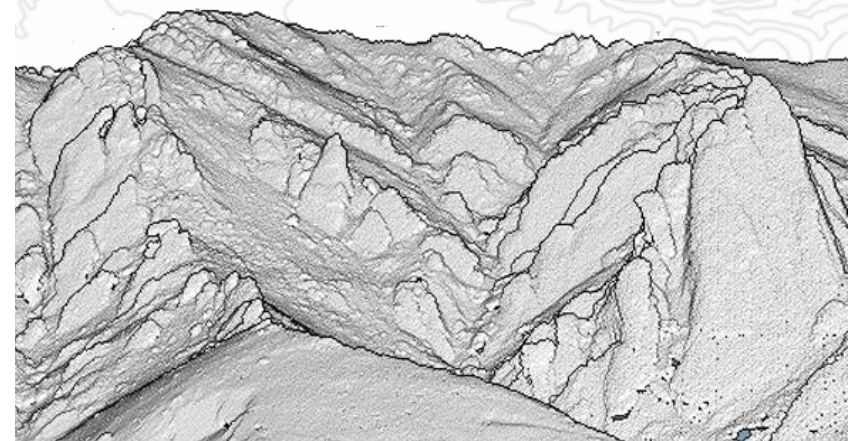
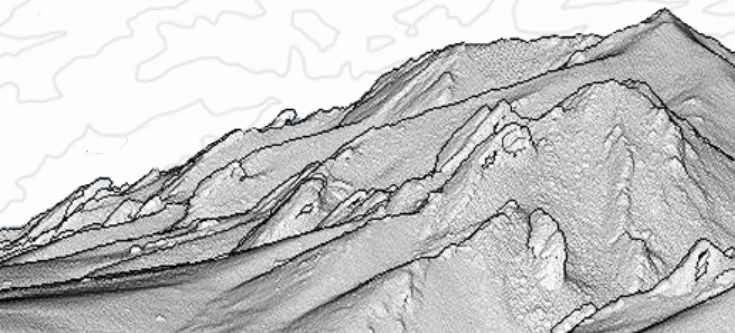
1:30: Error analysis & interpreting change (Brigham)

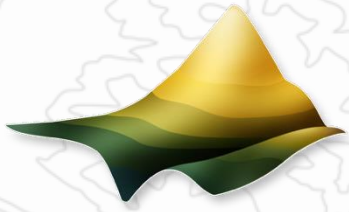
2:45: *Break*

3:00: Colab exercise: uncertainty on real disasters (Brigham)

4:40: Wrap-up

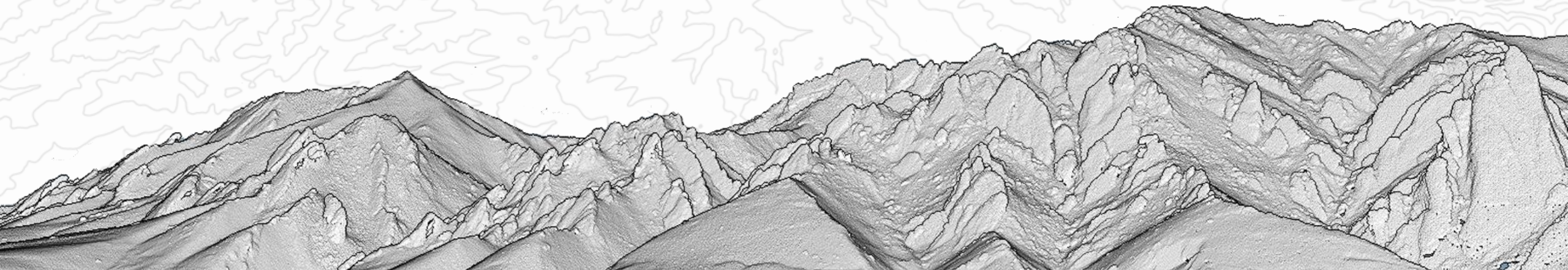
5:00: *Short Course End*

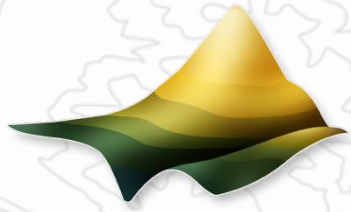




LOGISTICS:

1. Ensure you have a Gmail account and at least 500 MB of Google Drive space
2. Create an OpenTopography account (if you do not already have one) at <https://portal.opentopography.org/newUser>
3. Laptop capable of connecting to the WiFi network, ideally with a WebGL enabled browser like Chrome or Firefox

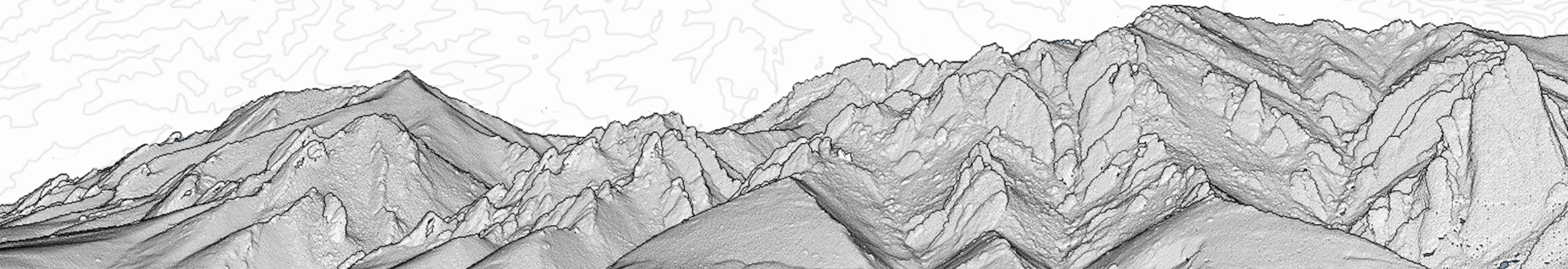


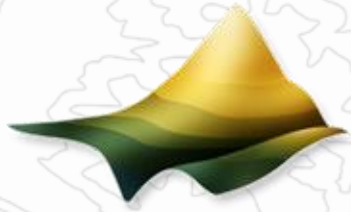


SHORT COURSE GOALS:

1. Build practical skills in lidar and uncertainty analysis
2. Understand sources of uncertainty in topographic data & differencing results
3. Analyze real-world dataset(s) that capture land surface hazards
4. Learn an end-to-end workflow for topographic differencing
5. Start creating a workflow to apply to your own project

No dumb questions! We are all learning together.



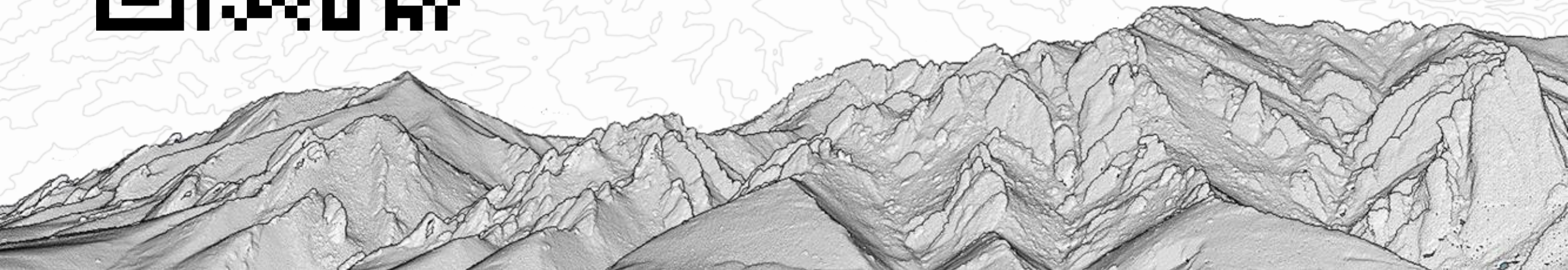


CLaSH OpenTopography Workshop

Intro Poll



**Join: [slido.com](https://slido.com/join/8124649)
#8124649**





What's your current role? (pick the closest)



Your research area in 5 words or less (e.g., post-fire debris flows)



How do you use topographic data in your research?



Audience Q&A

① The Slido app must be installed on every computer you're presenting from

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