

## SIOG 239 Geophysics Research Discussion

Spring Quarter 2020, Tuesdays 9-10:20am

Tues March 31 will be our first online meeting for SIOG239, and it will take place via Zoom. You can find the link on Canvas on the syllabus page, or if you can figure out how to connect directly, the meeting number is 331-971-023.

Our first meeting is intended to

- make sure we can all get online to Zoom and figure out how to communicate
- air general questions about progress through the first year of your PhD
- discuss the goals and format for our future meetings

Here is my ordered list of presenters for the remaining research discussions. Please send the paper you plan to present by the day before, Monday at 9am at latest so we all have a chance to read it ahead of time. Each discussion will be recorded and placed on line in the “Files” section of Canvas so you can review it later.

As for last quarter instructions are that presentations should cover:

1. A description of the research area based on the previous classic publication(s).
2. Introduction to this new paper. Introduce the authors. How does it relate to previous work?
3. What are the methods used? Is there anything particularly important about the new methods or data?
4. What are the main findings of the paper? How do they extend or modify our understanding of the problem?
5. What would you do to improve or extend their analysis?

Research pitches in Weeks 9 and 10 are an opportunity for each of you to give an informal chalk talk to introduce where you see your research interests going over the next few years. No results expected yet.

April 7: Zoe - Frohlich, C., et al. (2020). Onset and Cause of Increased Seismic Activity Near Pecos, West Texas, United States, From Observations at the Lajitas TXAR Seismic Array. <https://doi.org/10.1029/2019JB017737>

April 14: Amrit – Higman et al., The 2015 landslide and tsunami in Taan Fiord, Alaska, DOI:10.1038/s41598-018-30475-w

April 21: Andrea - C. Doglioni, S. Barba, E. Carminati, F. Riguzzi, Role of the brittle–ductile transition on fault activation, doi:10.1016/j.pepi.2010.11.005

April 28: Marnie - TBA

May 5: Jyun-Nai - TBA

May 12: Ruei-jiun - Barbour, A. J. et al, (2019), Leakage and Increasing Fluid Pressure Detected in Oklahoma's Wastewater Disposal Reservoir, <https://doi.org/10.1029/2019JB017327>

May 19: Cathy - Livermore et al. (2018), Transdimensional inference of archeomagnetic intensity change, <https://doi.org/10.1093/gji/ggy383>

May 26: Research pitches I

June 2: Research pitches II