Date: 11/10/2023, Friday
Time: 9:00 am - 7:30 pm EST
Location: Computing and Data Sciences (CDS) building at 665 Commonwealth Ave, 17th Floor

9:00 am – 9:30 am	Breakfast and Coffee Introductions by Ayşe Coşkun
9:30 am – 10:20 am	Plenary Talk: Probing Seismogenic Faults with Machine Learning **Speaker:** Chris Johnson
Session 1: Earthquakes from the Lab Scale to Active Faults	
10:20 am – 10:40 am	Applications of Machine Learning to Earthquake Physics: Learning from Lab Earthquake Prediction **Speaker:** Chris Marone
10:45 am – 11:05 am	A (Very) Brief Introduction to Current Observational Earthquake Science **Speaker:** Rachel Abercrombie
11:10 am – 11:30 am	Deep Learning of Seismograms **Speaker:** Mostafa Mousavi
11:35 am – 12:00 pm	Discussion with three speakers – facilitated by: Brian Kulis

12:00 pm – 1:00 pm	Lunch
1:00 pm – 1:50 pm	Plenary Talk: Machine Learning for Data-Driven Discovery in Solid Earth Geoscience: Progress and Challenges Ahead **Speaker:** Karianne Bergen
Session 2: Integrating ML into Geoscience	
1:50 pm – 2:10 pm	Deep Clustering Analysis for Data Exploration and Anomaly Detection in Distributed Acoustic Sensing (DAS) Systems **Speaker:** Peter Gerstoft
2:15 pm – 2:35 pm	Towards Learning Mechanical Models for Deforming Rocks, Augmented with Acoustic Information **Speaker:** Ben Holtzman
2:40 pm – 3:00 pm	Differentiable Programming: Bridging the Gap Between Numerical Models and Machine Learning Models **Speaker:** Daniel O'Malley
3:05 pm – 3:30 pm	Discussion with three speakers – facilitated by: Prakash Ishwar
3:30 pm – 3:50 pm	Coffee Break
Session 3: AI Challenge winners + Machine Learning and Fault Slip	

3:50 pm – 4:00 pm	1st Place Challenge Winner Talk **Artemii Novoselov**, Stanford University
4:05 pm – 4:10 pm	2nd Place Challenge Winner: Video Presentation **Seyifunmi Adeboboye**, Georgia Tech & **Joses Omojola**, University of Arizona
4:10 pm – 4:15 pm	3rd Place Challenge Winner Talk **Efe Sencan**, Boston University
4:20 pm – 4:40 pm	Earthquake Precursors and Forecasting Through the Lens of Laboratory Experiments **Speaker:** Srisharan Shreedharan
4:45 pm – 5:05 pm	Using Deep Learning to Understand Variations in Fault Zone Properties: Distinguishing Foreshocks from Aftershocks **Speaker:** Laura Laurenti
5:10 pm - 5:20 pm	Discussion and Final Thoughts – facilitated by: Yannis Paschalidis
5:30 pm – 7:30 pm	Reception