Seismology Student Workshop
March 22nd to 25th 2021
Lamont-Doherty Earth Observatory

Monday, March 22nd

10:00 am	**Welcome and Introductions**		
10:45 am	**Live Demo 1: Obspy and Jupyter Notebooks**		
	Talk Session 1: Tectonics and Imaging		
11:30 am	A double difference tomography study of the Washington Forearc: Does Siletzia control crustal seismicity?	Reid Merrill	University of British Columbia
11:45 am	Controls of bending-related faulting offshore of the Alaska Peninsula	Jacob Clarke	Northern Arizona University
12:00 pm	Generating robust and highly complete earthquake catalogues using QuakeMigrate: lessons from detecting 150,000 microearthquakes around Askja volcano, Iceland	Tom Winder	University of Cambridge
12:15 pm	Experimental estimation of seismic attenuation within an exhumed greenschist	Celine Fliedner	Rice University
12:30 pm	**Coffee Break**		
1:00 pm	**Games, mingling, explore Gather.Town**		

Tuesday, March 23rd

	Talk Session 2: Exotic Seismic Sources & New Instrumentation		
10:00 am	Slip directions in the A01 deep moonquake nest from principal component analysis	Alice Turner	University of Oxford
10:15 am	Seasonal variation of acoustic noise in the ocean recorded by MERMAID	Sirawich (Pete) Pipatprathanporn	Princeton University
10:30 am	MyShake+ ShakeAlert: Integrating smartphone sensors with an early warning system	Sarina Patel	UC Berkeley
10:45 am	Picoseismic insights on glacier sliding	Nathan (Nate) Stevens	University of Wisconsin-Madison
11:00 am	FanQuakes: Connecting football and science with the best fans in the land	Bailey Fitzgerald	Ohio State University
11:15 am	**Coffee Break**		
11:30 pm	**Live Demo 2: QuakeMigrate**		
12:15 pm	**Poster Lightning Session**		
12:35 -2pm	**Poster Session**		

Wednesday, March 24th

10:00 am	**Live Demo 3: Three-Station Interferometry**		
10:45 am	**Coffee Break**		
	Talk Session 3: Ambient Noise		
10:50 am	On the measurements of seismic travel-time changes in the time-frequency domain with wavelet cross-spectrum analysis	Shujuan Mao	Massachusetts Institute of Technology
11:05 am	Radiative transfer and coda wave interferometry: towards a better understanding of time-lapse changes in medium properties	Manuel Alejandro Jaimes Caballero	Colorado School of Mines
11:20 am	Three-station interferometry and tomography	Shane Zhang	CU Boulder
11:35 am	Investigating short-period lake-generated microseisms using a broadband array of onshore and lake-bottom seismometers	Chris Carchedi	Columbia University (LDEO)

11:50 pm	Coffee Break and Games
12:15 pm	Live Demo 4: MSNoise
1:00-2 pm	Alumni Panel

Thursday, March 25th

10:00 am	Live Demo 5: FakeQuakes		
10:45 am	Coffee Break		
Talk Session 4: Earthquake Rupture & Mechanics			
11:00 am	Frequency-difference backprojection of earthquakes	Jing Ci Neo	University of Michigan
11:15 am	Investigating early earthquake rupture characteristics with borehole strainmeters	Sydney Dybing	University of Oregon
11:30 am	Coffee Break		
11:35 pm	Student Panel		
12:30 pm	Closing remarks and farewells!		
12:50 pm	Gather.Town After Party! (Mingling+Games)		

Poster Session- Tuesday 12:15pm-2pm

Poster Number	Presenter	Poster Title
1	**Courtenay Duzet**	1D Crustal Seismic Velocity Model for West-Central Montana
2	**Şükran Perk**	Crustal structure of Erzurum from ambient noise analysis
3	**Rebecca Colquhoun**	Investigating earthquake nucleation with phase coherence
4	**Kristina Rossavik**	3D ambient noise tomography of Llaima Volcano, Chile
5	**Wanniarachchige (Rashni) Anandawansha**	Global observations of mantle discontinuities from ScS reverberations
6	**Ziqi (Evan) Zhang**	The Signature and Elimination of Sediment Reverberations on Submarine Receiver Functions
7	**Theresa Sawi**	An unsupervised machine-learning analysis of summer seismicity at an Alpine glacier
8	**Xueyan Li**	Moment tensor inversion for deep earthquakes at the Tong-Kermadec subduction zones using 3-D Green's functions
9	**Doriane Drolet**	Aftershock Distributions, Moment Tensors and Temporal Evolution of the Stress Regime Associated with Two M7.1 Alaskan Intraslab Earthquakes
10	**Alexander (Alec) Yates**	A Standardised Approach to Monitoring Volcanoes Using Ambient Noise Interferometry
11	**Ravi Wickramathilake**	Assessing intrinsic versus scattering attenuation in Earth's inner core
12	**Arjun Neupane**	Exploring the Dependence of Corner Frequency Estimates on EGF-selection Criteria using the 2019 Ridgecrest Earthquake Sequence
13	**Miguel Neves**	Improving Iberia's earthquake catalog using deep learning and matched filter techniques, a comparison
14	**Claire Richardson**	Development of a large, global, high quality dataset from an adaptive empirical wavelet method to sharpen deep mantle imaging
15	**Geena Littel**	Seismotectonics and structure of the Queen Charlotte Triple Junction, British Columbia from seismic tomography
16	**Tara Nye**	Characterizing tsunami earthquake rupture parameters with forward modeling and near-field geophysical data
17	**Kiara, Daly**	High-resolution earthquake location across the Wrangell Volcanic Field, Alaska
18	**Saju D S**	Teleseismic P-wave tomography and Seismic Anisotropy of the Malani

		Igneous Province in Rajasthan, Northwestern India