## 21<sup>th</sup> Annual Northeastern

## Granular Materials Workshop

Friday June 13th, 2025

Mechanical Engineering & Material Science, Yale University

Schedule Friday, June 13, 2025		
	Session I	
9:15 - 10:00	Invited Talk: Self-organized mechanics of a bird nest	Hunter King
10:00 - 10:20	Chemical gradients shape the transport of colloids and bacteria in complex flows	Amir Pahlavan
10:20 - 10:40	Coffee Break	
	Session II	
10:40 - 11:25	Invited Talk: How the same small-scale contact process connects to different large-scale mechanical properties ranging from rheology to elasticity	Liuchi Li
11:25 - 11:45	Mermaid Cereal: Interactions and Pattern Formation in a Macroscopic Magnetocapillary SALR System	Daniel Harris
11:45 - 12:45	Sound Bite Session	
12:45 - 2:00	Lunch	
	Session III	
2:00 - 2:45	Invited Talk: From Icy Soil Drips to Rivers of Brazil Nuts: Connections between Earths landscapes and everyday materials	Rachel Glade
2:45 - 3:05	Learning As Neural Manifold Packing	Stefano Martiniani
3:05 - 3:35	Break	
	Session IV	
3:35 - 4:20	Invited Talk: High Pressure Granular Mechanics at Low and High Strain Rates.	Ryan Hurley
4:20 - 4:40	Leveraging Dual-Mode Vibration to Induce Horizontal Motion of Bubbles in Gas-Fluidized Granular Materials	Ocsar Punch
4:40 - 5:00	Comments, Next meeting, Adjourn	