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| 20th annual NortheasternGranular Materials WorkshopFriday, June 7th, 2024Department of Physics, College of the Holy Cross |
| Schedule |
| 8:45 – 9:30 AM | Meet-and-greet, refreshments |  |
|  | **Session 1** Chair: Ryan Kozlowski |  |
| 9:30 – 9:35 AM | Opening remarks and welcome |  |
| 9:35 – 10:15 AM | [*Clogging and intermittency in microfluidic and hopper flows*](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=571) | Sara Hashmi |
| 10:15 – 10:30 AM | [Cornerstones are the Key Stones: Studying Granular Clogging with Machine Learning as an Experimental Guide](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=554) | Sam Dillavou |
| 10:30 – 10:45 AM | [Stochastic dynamics of granular hopper flows: slow configurational modes control the stability of clogs](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=562) | David Hathcock |
| 10:45 – 11:00 AM | Coffee break |  |
|  | **Session 2** Chair: Narayanan Menon |  |
| 11:00 – 11:40 AM | [***Mechanical response in jammed materials: From local structure to control theory***](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=560) | Erin Teich |
| 11:40 – 11:55 AM | [The hysteresis and irreversibility transitions in cyclicly sheared amorphous solids](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=324) | Craig Maloney |
| 11:55 AM – 12:10 PM | [Descent of Single and Pairwise Intruders in Vibrated Gas-Fluidized Granular Materials](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=521) | Christopher Boyce |
| 12:10 – 1:10 PM | Lunch |  |
|  | **Session 3** Chair: Kerstin Nordstrom |  |
| 1:10 – 1:50 PM | [***Rigidity and failure in granular materials: from the particle to the bulk scale***](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=558) | Karen Daniels |
| 1:50 – 2:05 PM | [Designing the pressure-dependent shear modulus using tessellated granular metamaterials](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=550) | Dong Wang |
| 2:05 – 2:20 PM | [Jamming on Deformable Surfaces](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=568) | Timothy Atherton |
| 2:20 – 2:25 PM | Break / table talk preparation |  |
|  | **Table talks** |  |
| 2:25 – 3:25 PM | Robin Burton: [Rotating Intruders in Dense Granular Beds](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=547)Levi Cass: [Granular Flow within a Quasi-2D Hopper in the Presence of Symmetrical and Asymmetrical Angled Orifice Boundaries](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=556)William Hobson-Rhoades: [Understanding the Change in Ductility of a Granular Raft under Small Amplitude Oscillatory Deformation](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=567)Sohum Kapadia: [Entanglement and localization of active filaments in a square well](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=520)Emile Kraus: [The Marine Sponge Cliona celata as a living, granular metamaterial](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=566)Arshad Kudrolli: [Magnetoelastic robots in sand](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=59)Lori McCabe: [Switching Flows in a 2D Silo](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=533)Stephanie McNamara: [Preliminary Work with OrganoMercury-Free Photoelastic Particles](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=555)Amir Nazemi: [Understanding the Propulsion of a Scallop-like Swimmer in Granular Media](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=563)Evan Willmarth: [Discrete Eshelby Inclusions in Amorphous Solids](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=549)Chetan Yadav: [Effects of Activity on approaching Glassiness](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=529)Yating Zhang: [Hindered stokesian settling of discs and rods](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=515)Tejas Dethe: [Group Representation Theory for Elastic (possibly Granular?) Metamaterials](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=569)Mary Reiter: [Granular electrostatic formations with peeled tape](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=480)  |
| 3:25 – 3:30 PM | Break / table talk take-down |  |
|  | **Session 4** Chair: Arshad Kudrolli |  |
| 3:30 – 3:45 PM | [Elastocapillary Adhesion of Soft Gel Microspheres](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=466) | Katharine Jensen |
| 3:45 – 4:00 PM | [Large deformation DEM powder compaction simulations using a mechanically-derived contact model for adhesive elastic-plastic particles](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=557) | William Zunker |
| 4:00 – 4:40 PM | [***Some new methodologies in continuum modeling of granular flow***](https://gibbs.ccny.cuny.edu/NEGW/viewabstract.php?id=214) | Ken Kamrin |
| 4:40 – 4:45 PM | Concluding remarks |  |