

17<sup>th</sup> Annual Northeastern  
*Granular Materials Workshop*

Friday, June 14<sup>th</sup>, 2019  
Center for Soft Matter Research (CSMR), New York University

**8:00am-9:00am**

**Breakfast**

Talks

**9:00am-9:50am**

**W. Benjamin Rogers**

*Brandeis University*

Characterizing dynamic pathways in colloidal self-assembly

**9:50am-10:10am**

**Zhe Gong**

*New York University*

Entropy driven assembly of colloidal tetrahedra into a diamond structure

**10:10am-11:00am**

**Celeste Nelson**

*Princeton University*

Mesenchymal fluidity, matrix transport, and tissue morphogenesis

**11:00am-11:20am**

**Coffee Break**

Talks

**11:20am-11:40am**

**Lea-Laetitia Pontani**

*Sorbonne University, France*

Biomimetic emulsions probe the mechanics of tissues

**11:40am-12:00pm**

**Miranda Holmes-Cerfon**

*New York University*

Modeling the dynamics of DNA-bound colloids

**12:00pm-1:00pm**

**Lunch**

Talks

**1:00pm-1:50pm**

**Xiaoming Mao**

*University of Michigan*

How does rigidity emerge and disappear in soft matter?

**1:50pm-2:10pm**

**Stefano Martiniani**

*New York University*

Taking the numerical calculations of granular entropy forward

**2:10pm-3:00pm**

**Kerstin Nordstrom**

*Mount Holyoke College*

The clogging transition in granular flows

**3:00pm-3:20pm**

**Coffee Break**

**Talks**

**3:20pm-3:40pm**

**Nikunj Kumar Visaveliya**

*The City College of New York*

Structured polymer nanoparticles: granular Surface via *in-situ* assembling

**3:40pm-4:00pm**

**Abdelaziz Ads**

*New York University*

Effect of nose shape on penetration of a colloidal surrogate for clay

**4:00pm-4:20pm**

**Snapshots:**

- Rituparna Basak  
*New Jersey Institute of Technology*  
Application of machine learning to the stick-slip dynamics of particulate media
- Benjamin Allen  
*Clark University*  
Intruder interplay in fluid saturated granular media
- Linzhu Li  
*New York University, Tandon*  
Experiments to study flow through porous granular materials
- Leah Friedman  
*Ecole Normale Supérieure, France*  
Biomimetic emulsions for studying protein-protein interactions

**4:20pm-4:30pm**

**Closing Remarks**

**4:30pm-5:30pm**

**Wine & Cheese**