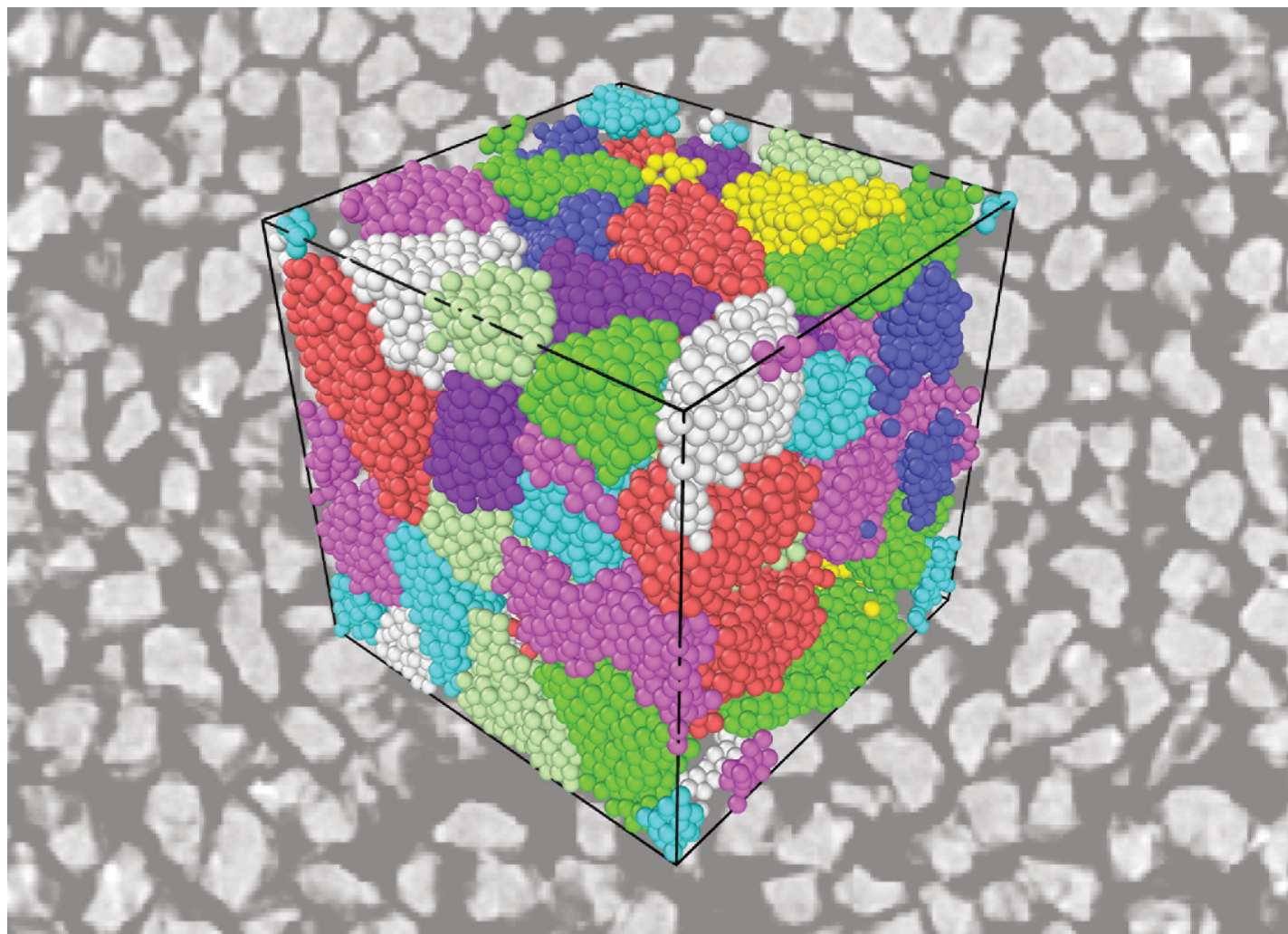




Showcasing research from Professor Marcia Cooper's laboratory, J. Mike Walker '66 Department of Mechanical Engineering, Texas A&M University, College Station, Texas, USA.

Interaction of grain morphology and intergranular friction on grain packing

We explore grain morphology and intergranular friction on the interface behaviors affecting grain packing in granular materials. The packing of grains at low pressures plays a critical role in the creation of granular assemblies of all stiffnesses. A correlating relationship between three commonly used grain morphological descriptors, intergranular friction and grain packing fraction is shown. The methods are similarly applied to experimental and computationally reconstructed grains and is the first study to systematically and quantitatively explore the interactions of grain morphology and intergranular friction on grain packing behavior.

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As featured in:



See Samuel Martin and Marcia A. Cooper, *Soft Matter*, 2025, **21**, 5214.