UCLA Department of Physics & Astronomy

COLLOQUIUM

Thursday, April 29, 2021 at 4 p.m.

Pushing the limits of hydrodynamics

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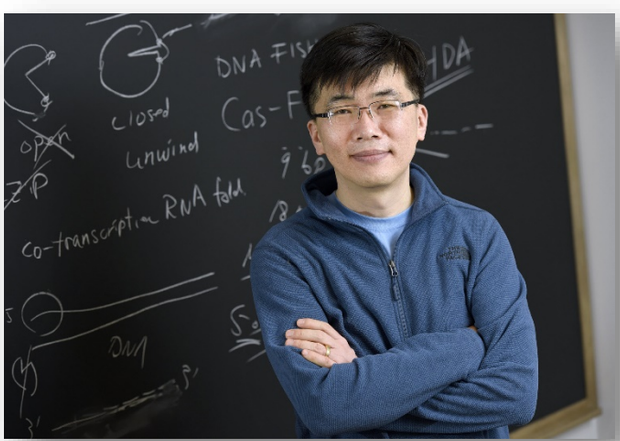

DNA is an iconic molecule that forms a double helical structure, providing the basis for genetic inheritance, and its physical properties have been studied for decades. In this talk, I will present evidence that sequence dependent physical properties of DNA such as flexibility and self-association may be important for biological functions. In addition, I will present a new application of DNA where mechanical modulations of cell behavior can be studied at the single molecule level using rupturable DNA tethers.

Undergraduates Welcome!