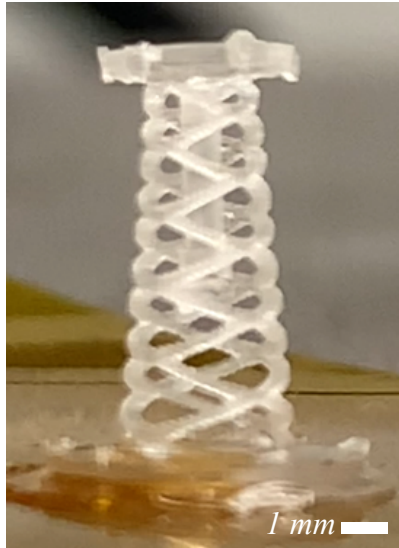
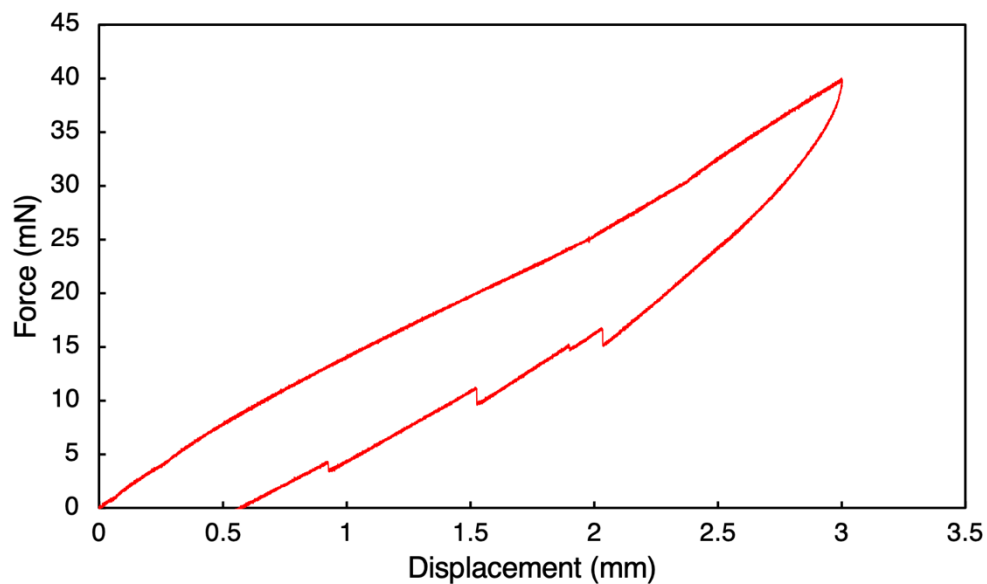


Thermally Released Spring-Loaded Platform for Capsule Based Drug Delivery and Sensing

Supplementary Figures



Supplementary Fig. S1: Mesoscale Digital Light Processing 3D printed spring for delivery of microneedle-based systems in the GI tract. The spring shape consists of 4 superimposed conical coil springs. The pillar extending down from the top of the center of the spring is used to retain the spring in the compressed position using polycaprolactone.



Supplementary Fig. S2: Mechanical test of 3D printed spring. Upon compression, the spring is compressed 3 mm. The upper line shows the force applied to the load cell under compression, and lower line shows the force applied to the load cell under extension. The difference in force between compression and extension at a given displacement is indicative of the polymer relaxation and coil sticking.