



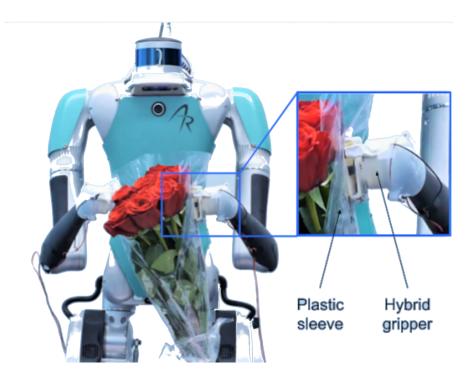


## Beyond the Gecko

Design and Fabrication of Hybrid Adhesives for Robotics

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What started collaboration as a among biologists and engineers to understand the adhesive system of the gecko has taken on a life of its own. The latest developments include grasping objects in space and augmenting Van der Waals forces with electrostatics. The new hybrid adhesives work on a wide range of materials and conditions while maintaining the controllable grip that made gecko-inspired adhesion desireable for climbing robots like StickyBot. In this talk we will cover new fabrication processes for creating flexible hybrid example applications that adhesives, with include robotic gripping of soft, deformable materials and flexible clutch mechanisms for robotic or wearable devices. Following presentation, we will hear from some students who have been following a short course on Microfabrication for Bioinspired Surfaces as they present their final proposals.

1 Mar 2022 h.15.00

## Aula Pacinotti & Microsoft Teams



