

(Model-based) Robotics, with the **right** simplifications

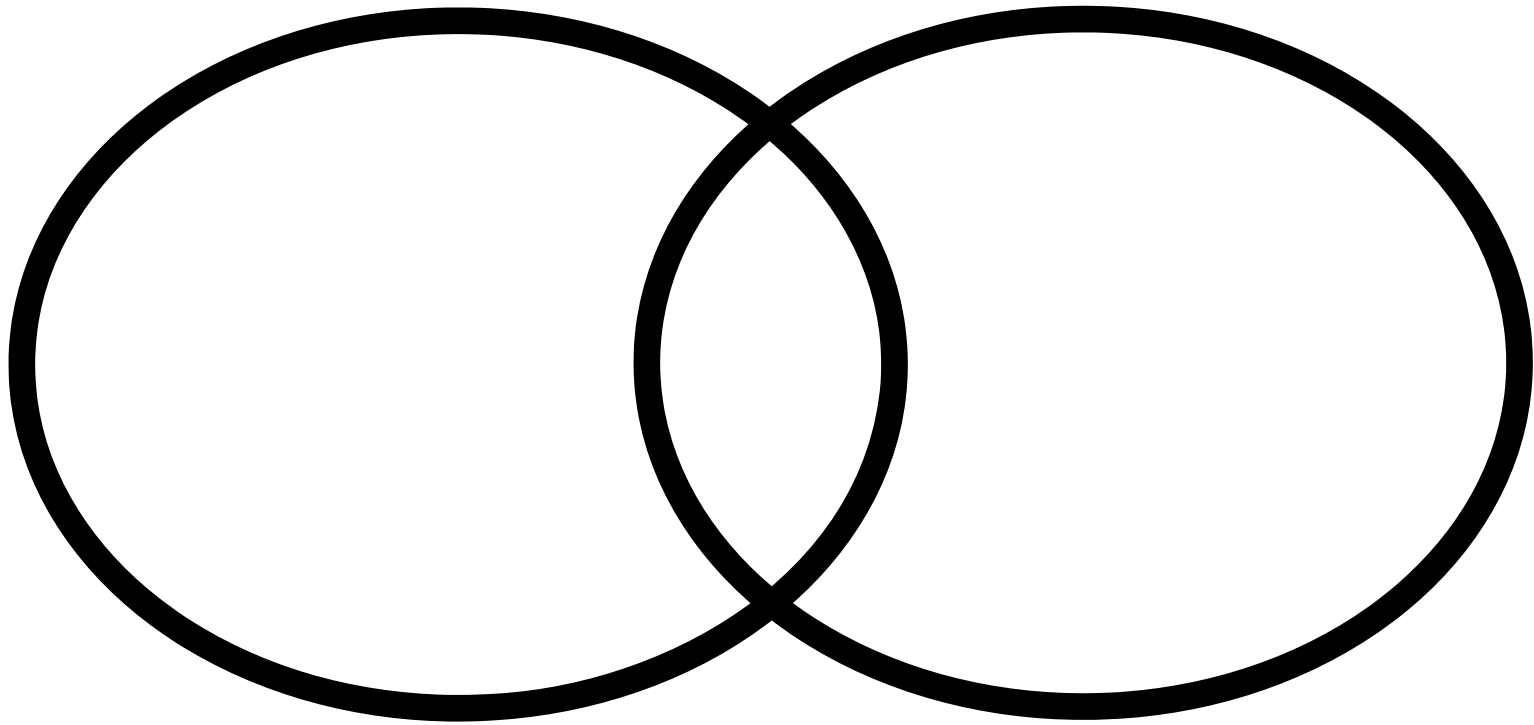
Oliver Brock
Robotics and Biology Laboratory

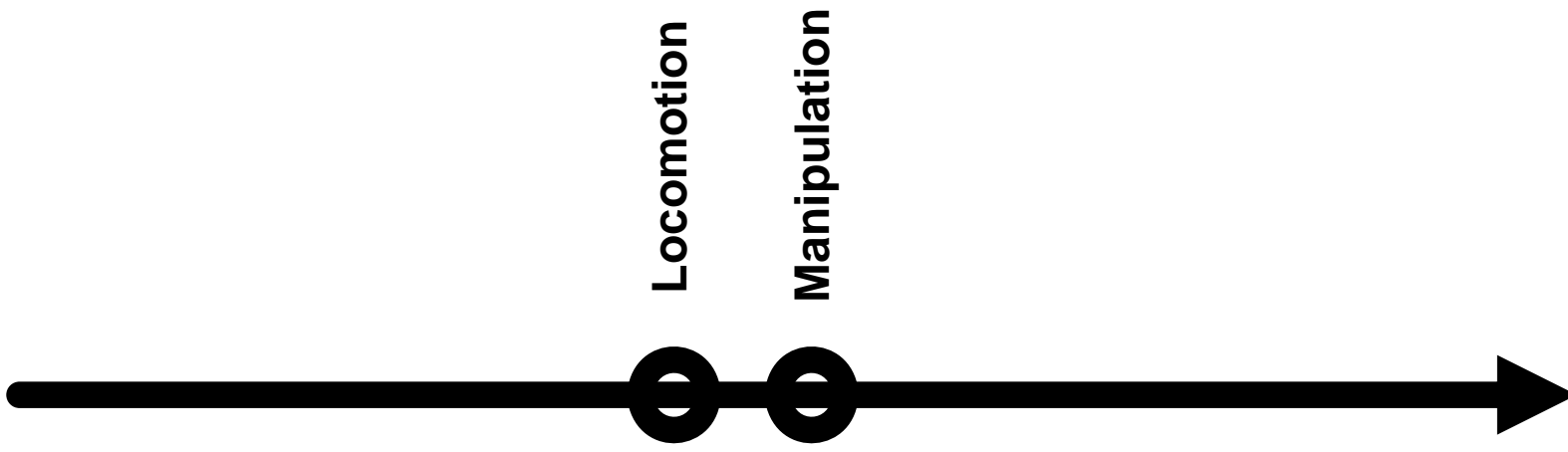


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Technische Universität Berlin



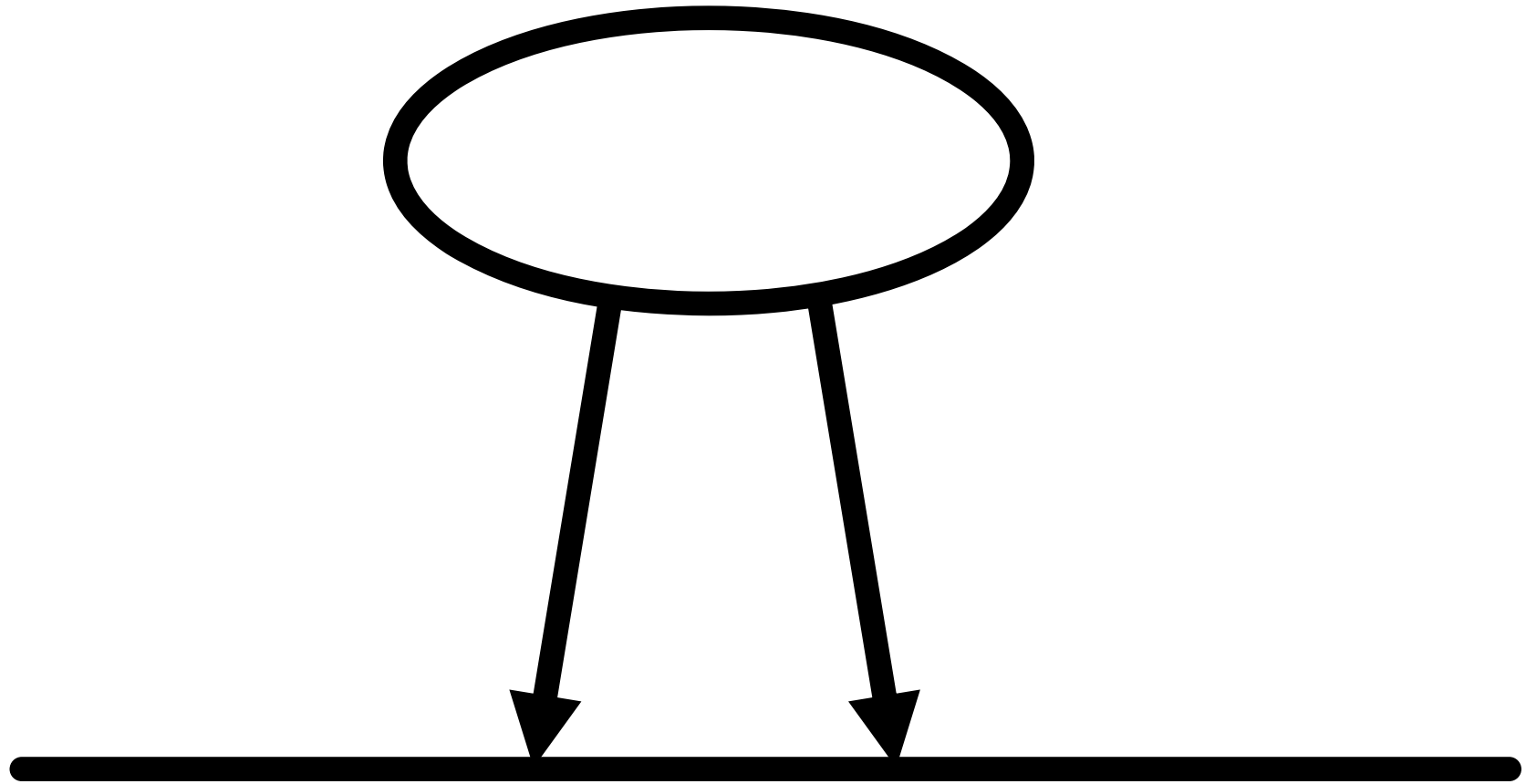




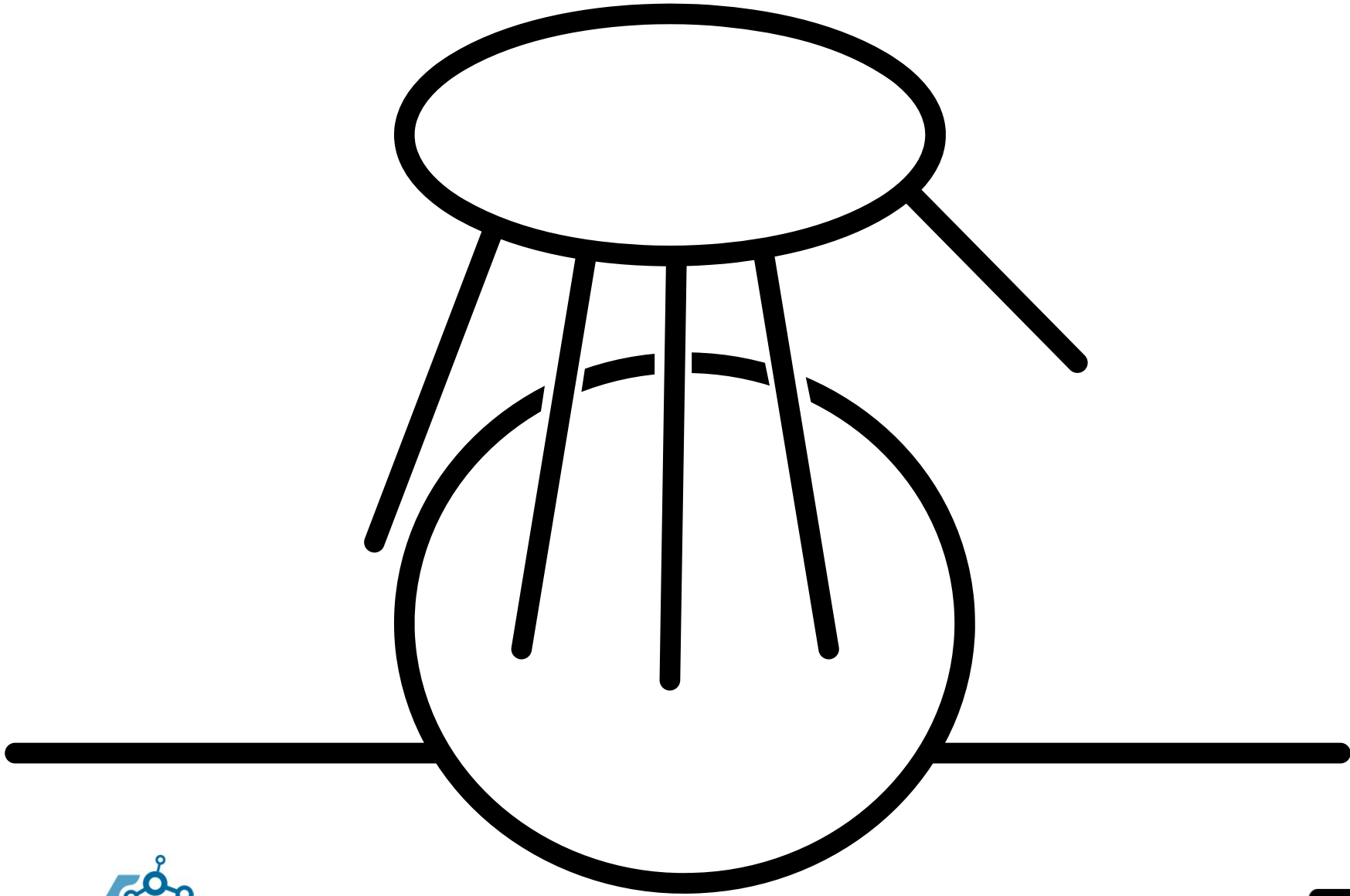


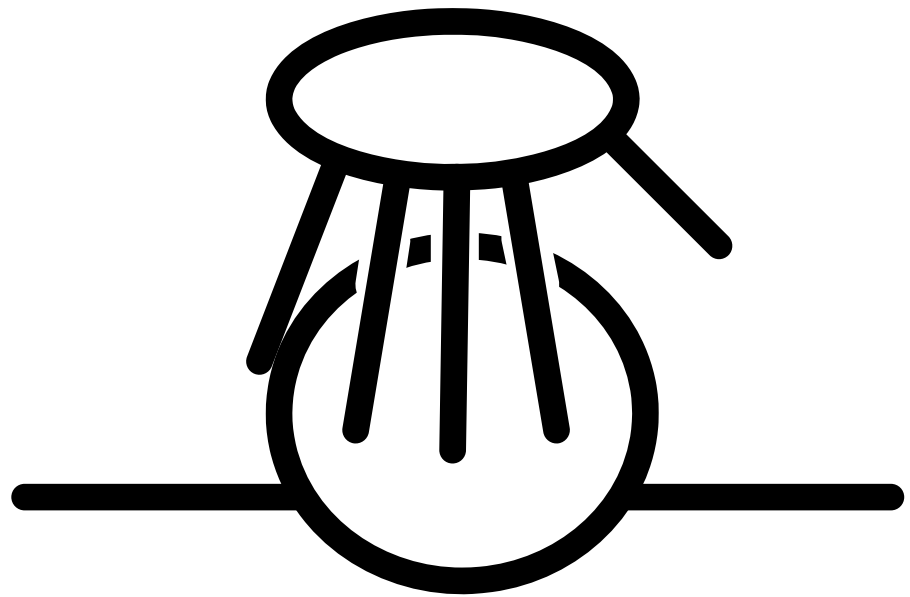
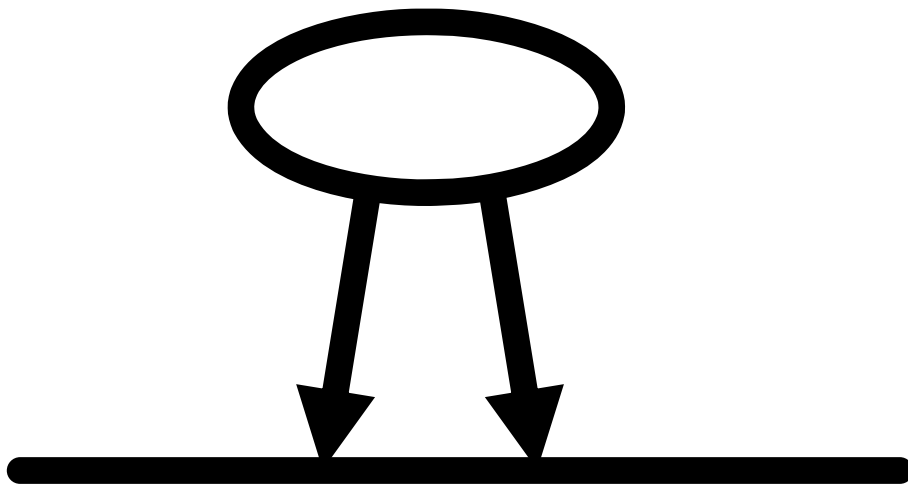






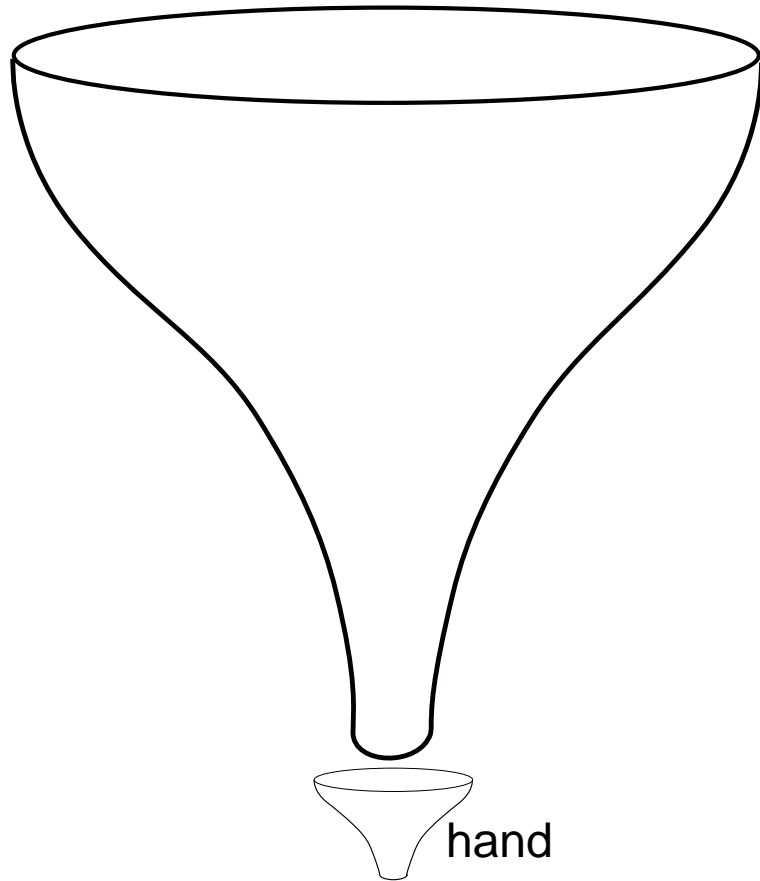






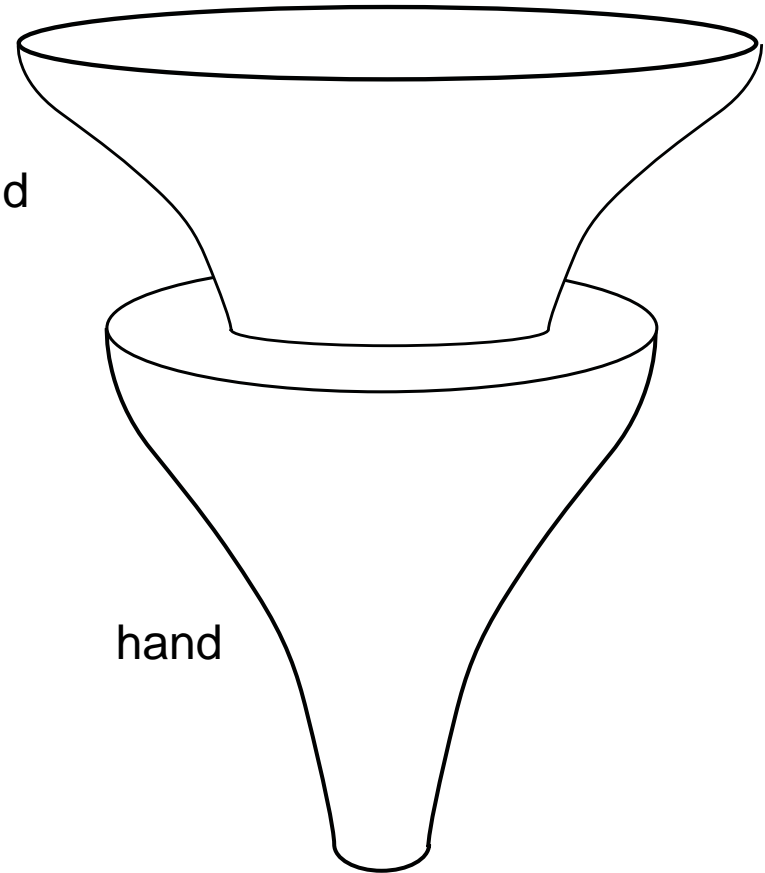
Contact-Rich Grasping and Manipulation

Classic View

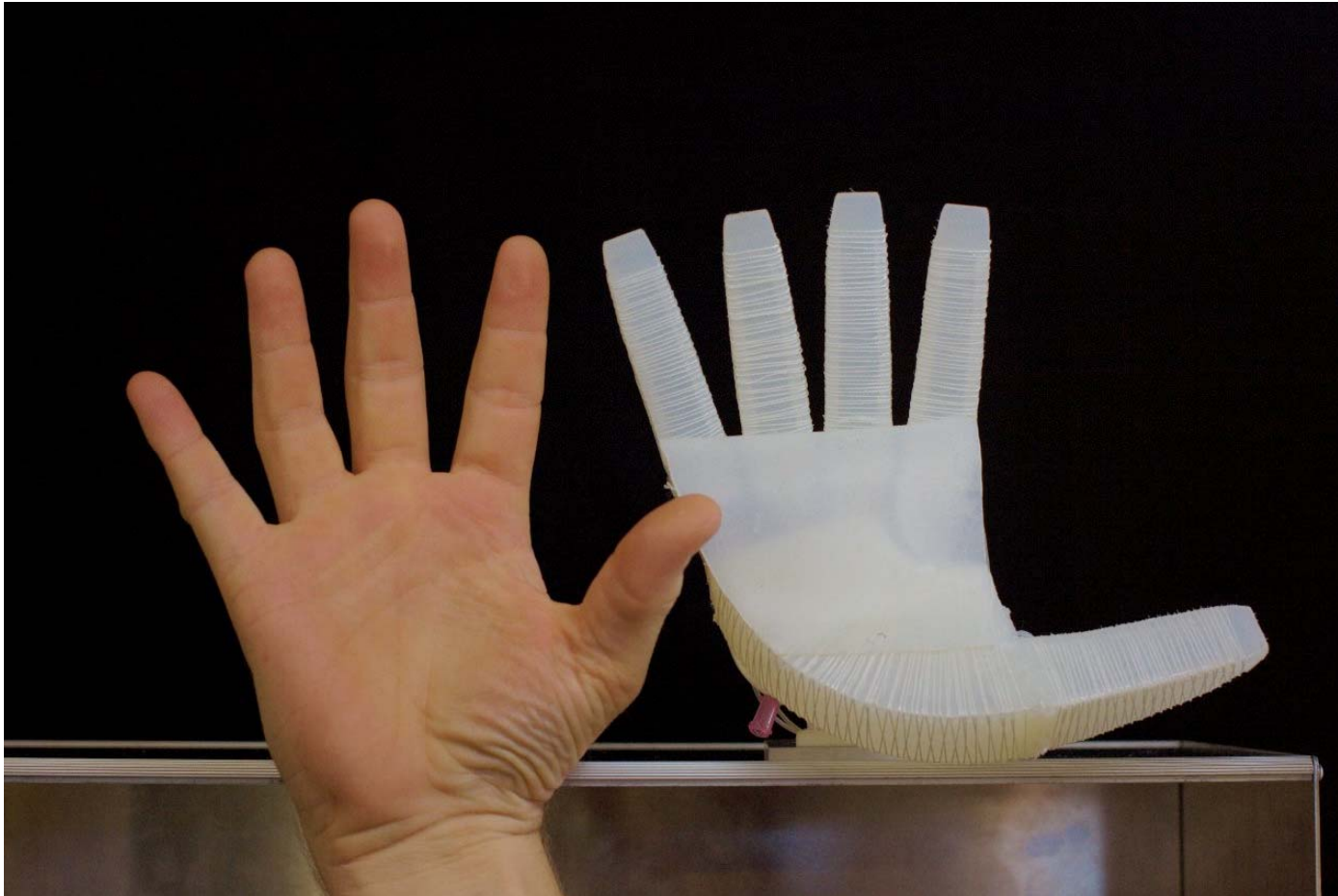


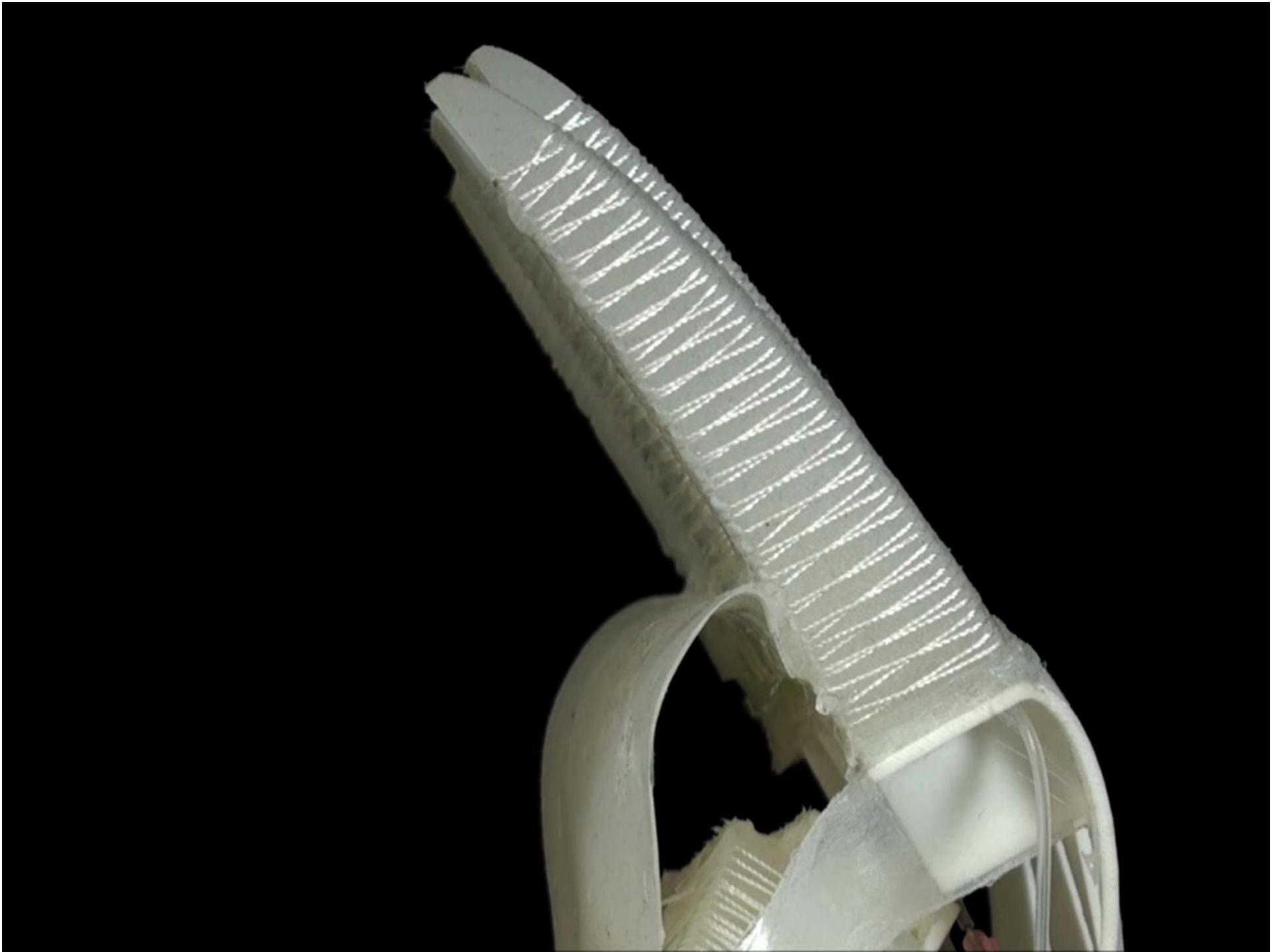
explicit
perception,
planning, and
control

Exploiting Contacts

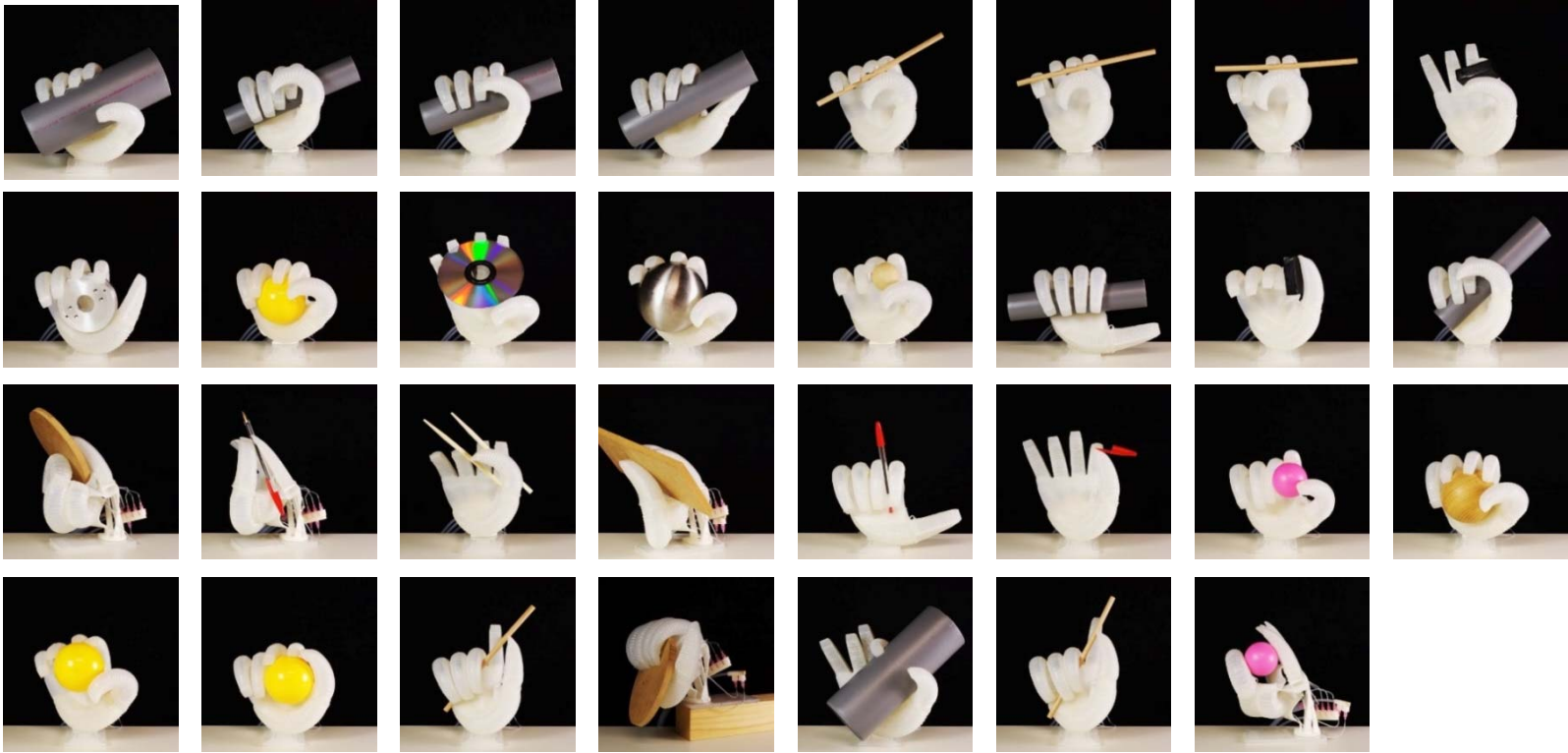


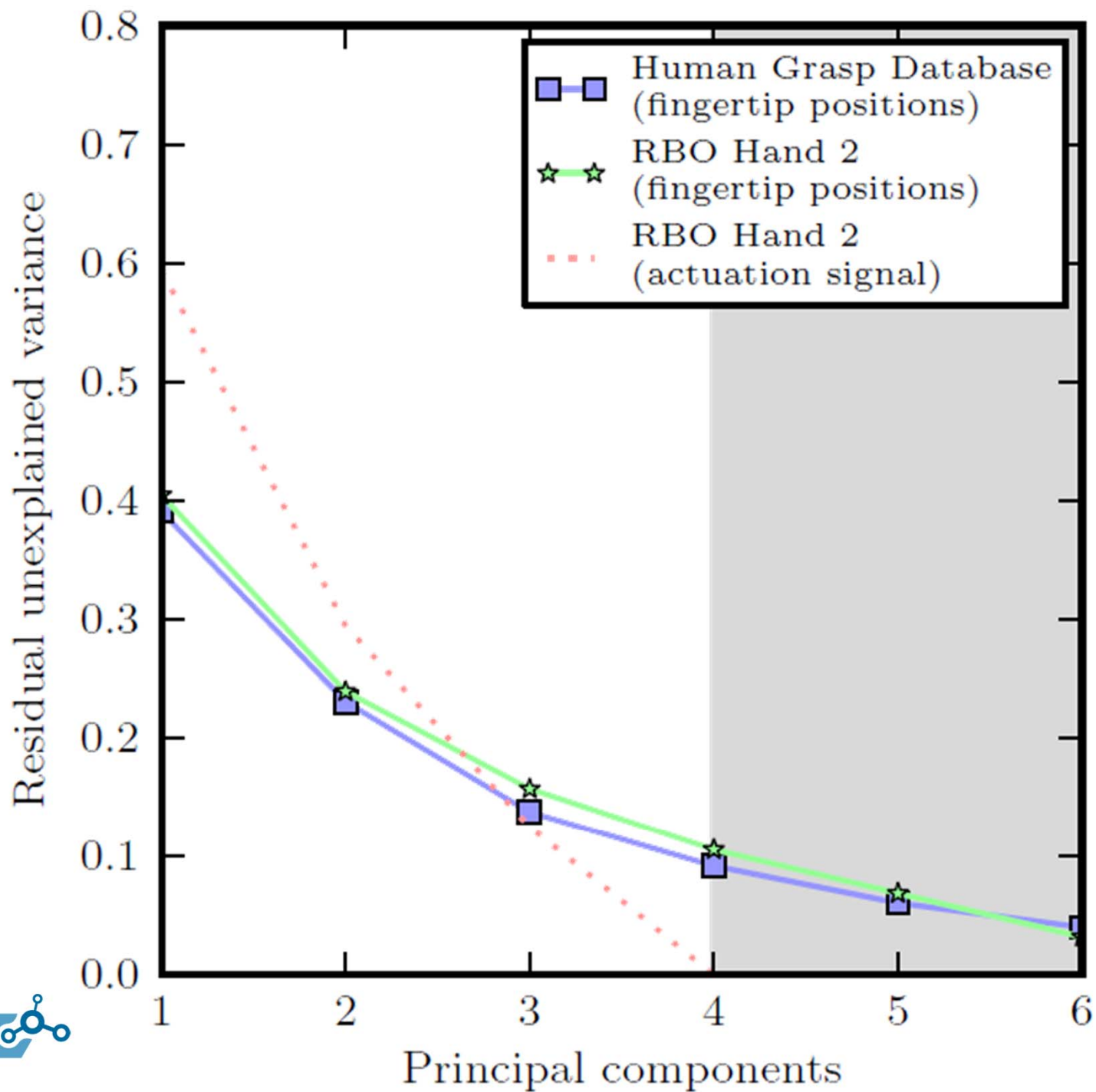
The RBO Hand 2

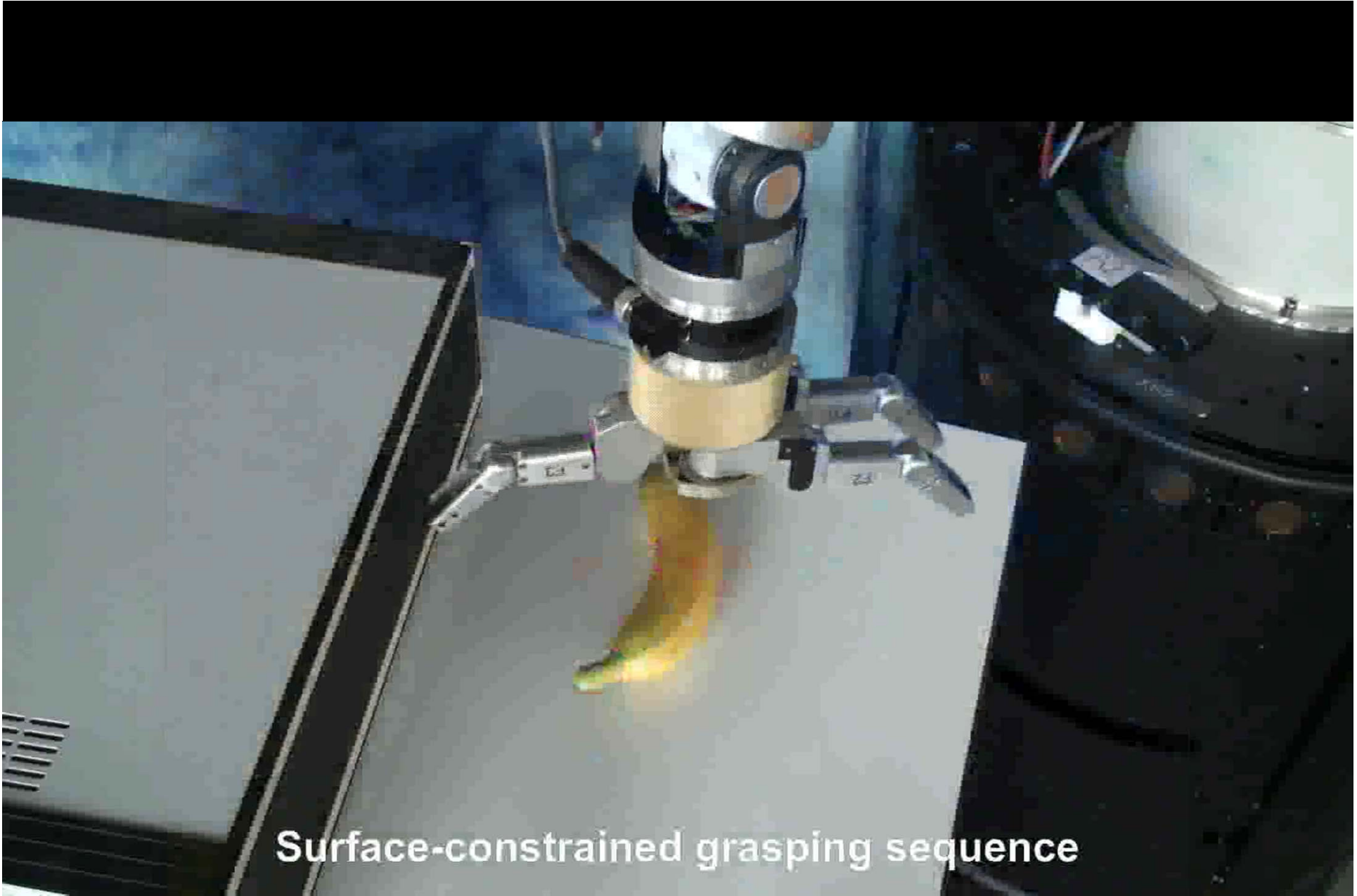




Feix Taxonomy (31 out of 33 grasp types)



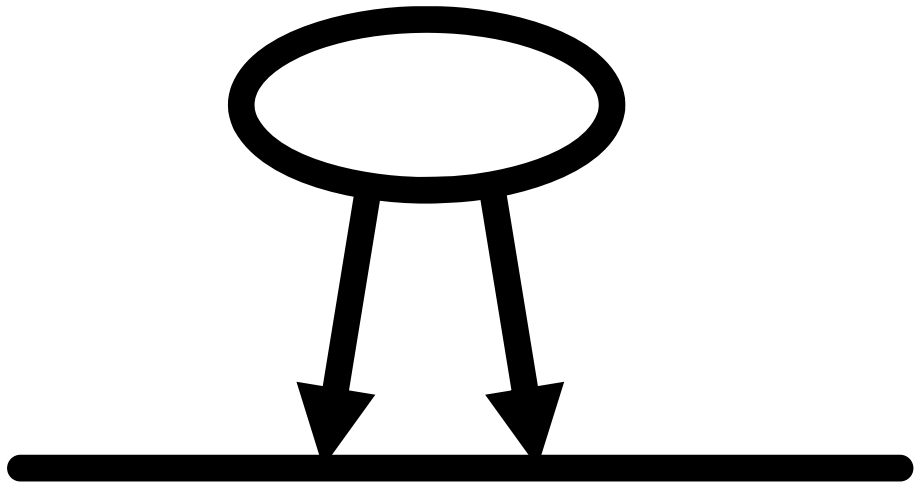




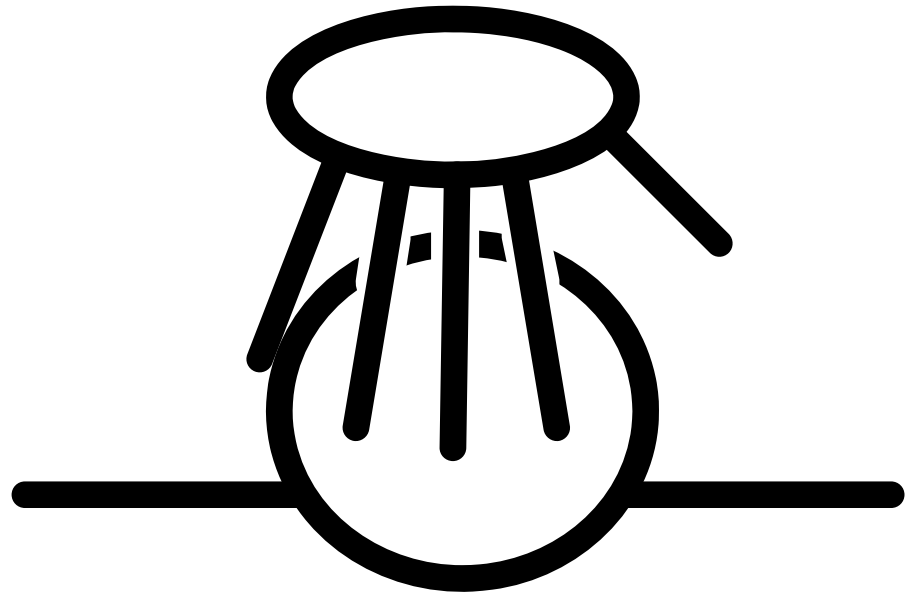
Surface-constrained grasping sequence



Slide or Stick: Is that the trick?



STICKING



SLIDING