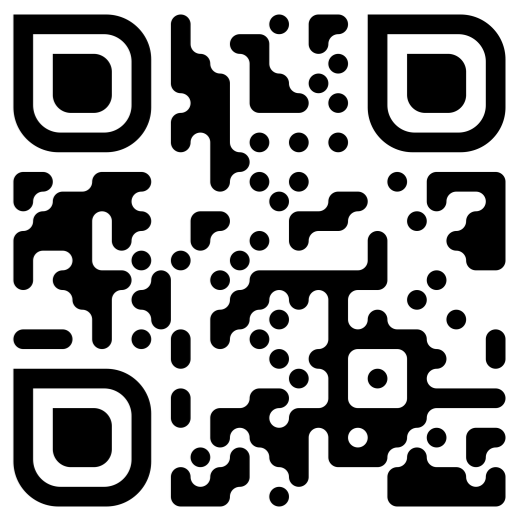
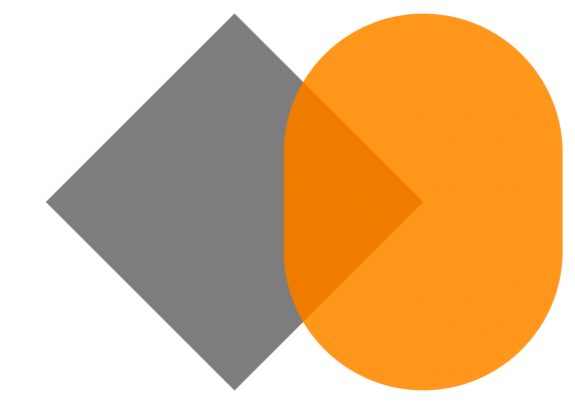




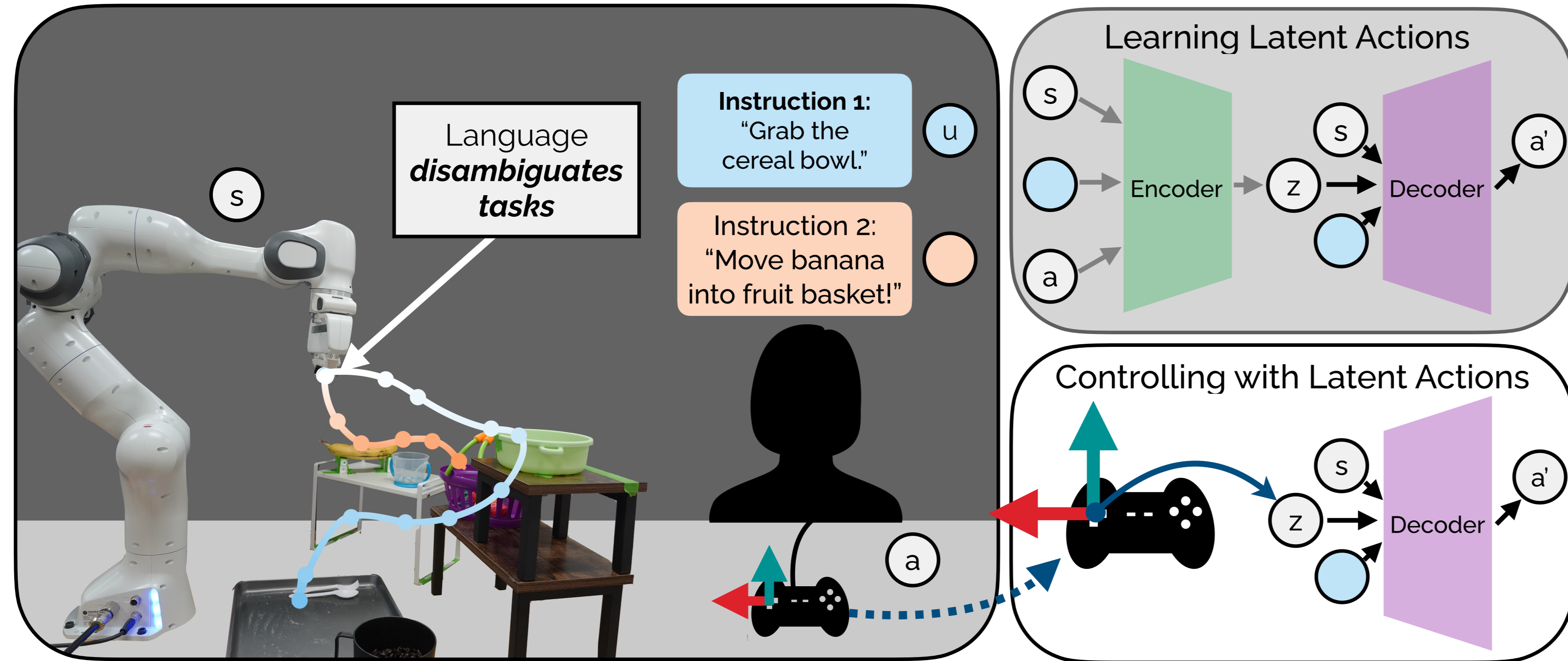
LILA: Language Informed Latent Actions

Siddharth Karamcheti*, Megha Srivastava*, Percy Liang, Dorsa Sadigh



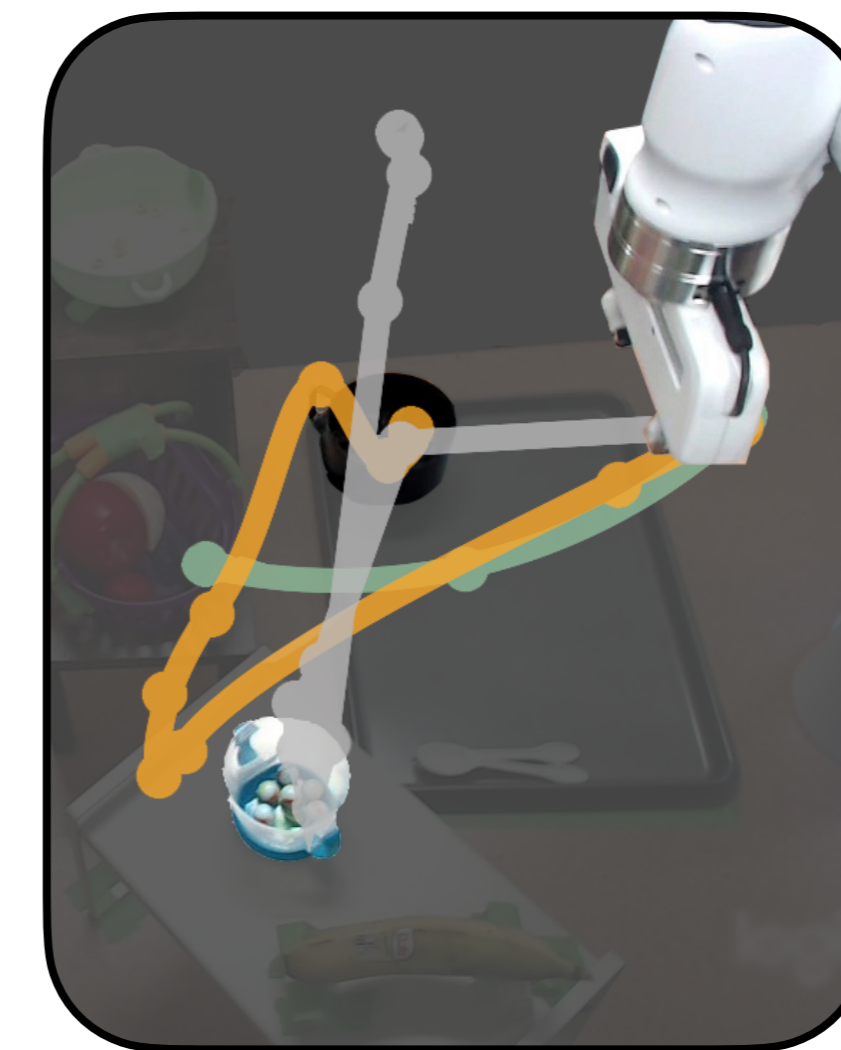
Latent Actions: Low-dimensional, task aware controllers for high-dimensional robots under shared autonomy.

Problem: Disambiguation in multi-task environments; *can natural language help modulate low-dimensional control?*



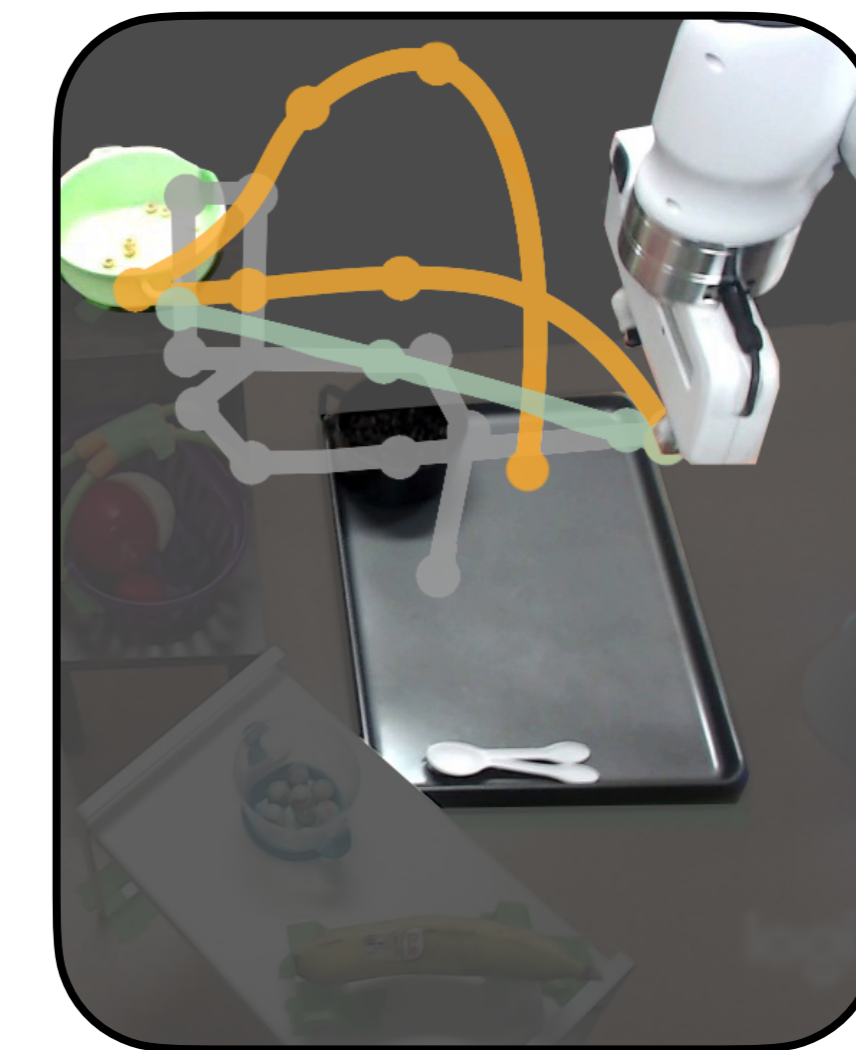
User Study: Successful task completion and user-preferred control with *15 demonstrations!*

Legend: End-Effector Control Imitation Learning LILA



pour cup

"pour the cup with blue handles into the black cup"



pick cereal

"grab the cereal bowl and put it on the tray"



pick banana

"put the banana into the basket"

Obtains 2x the success rate of baselines!

