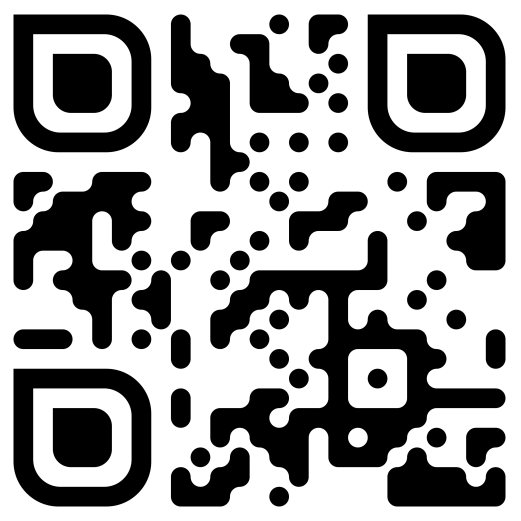
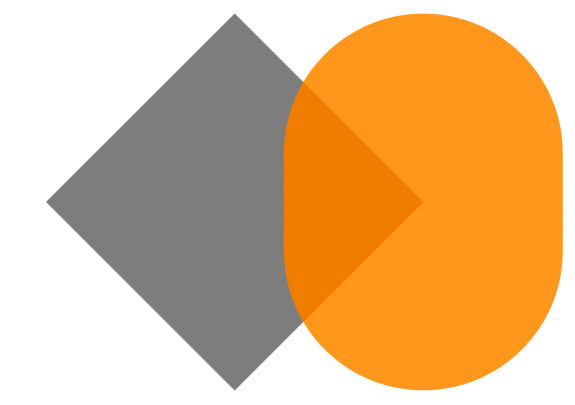




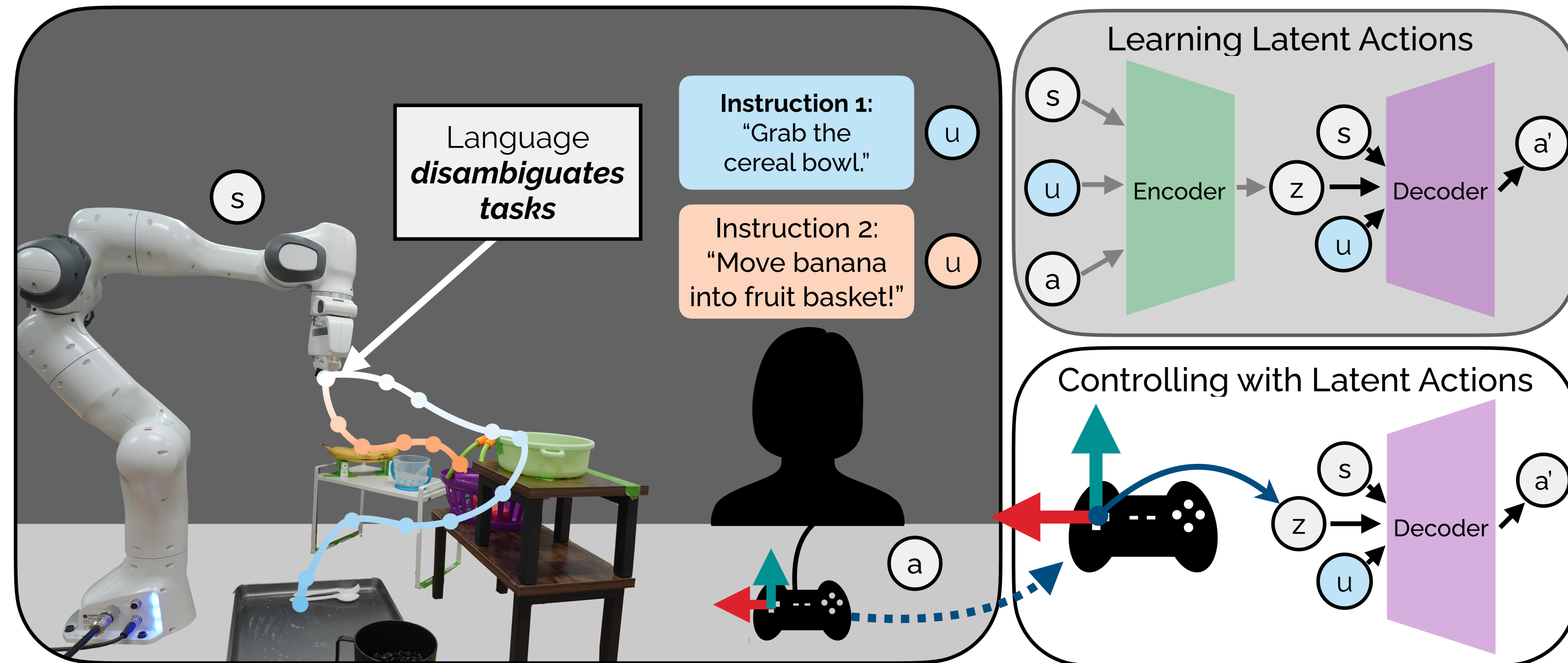
# LILA: Language Informed Latent Actions

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



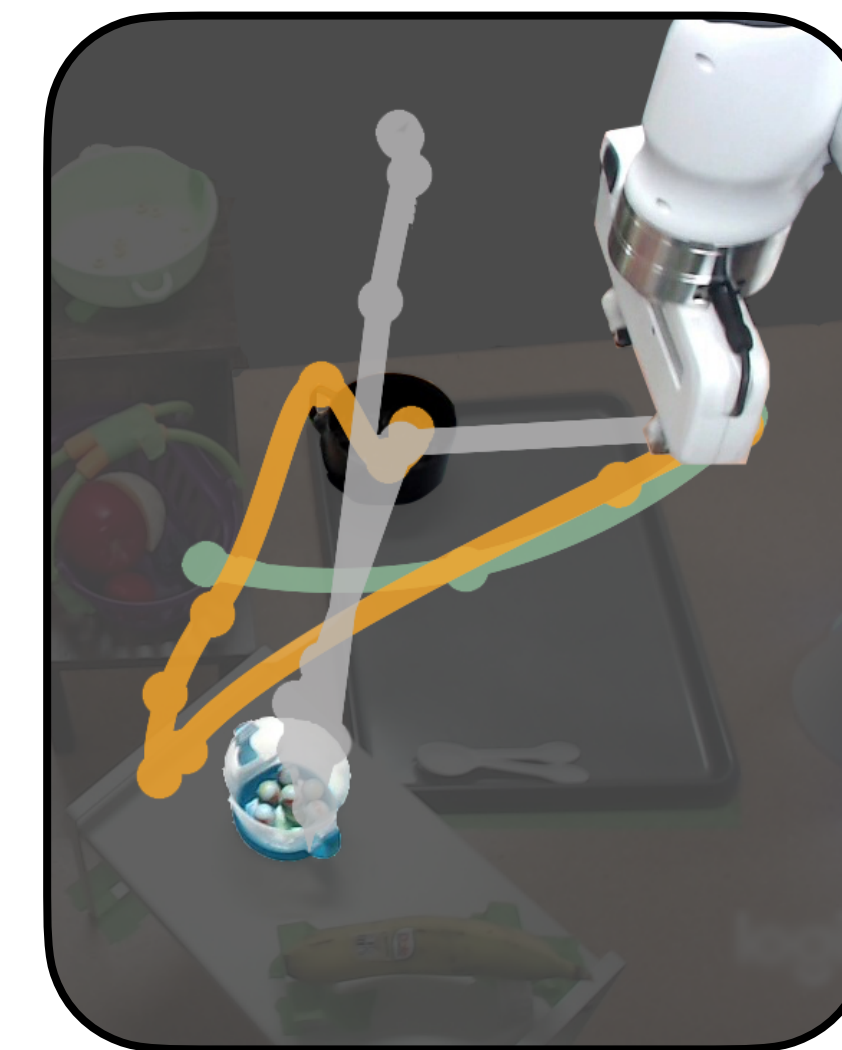
**Latent Actions:** Low-dimensional, task aware controllers for high-dimensional robots under shared autonomy.

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

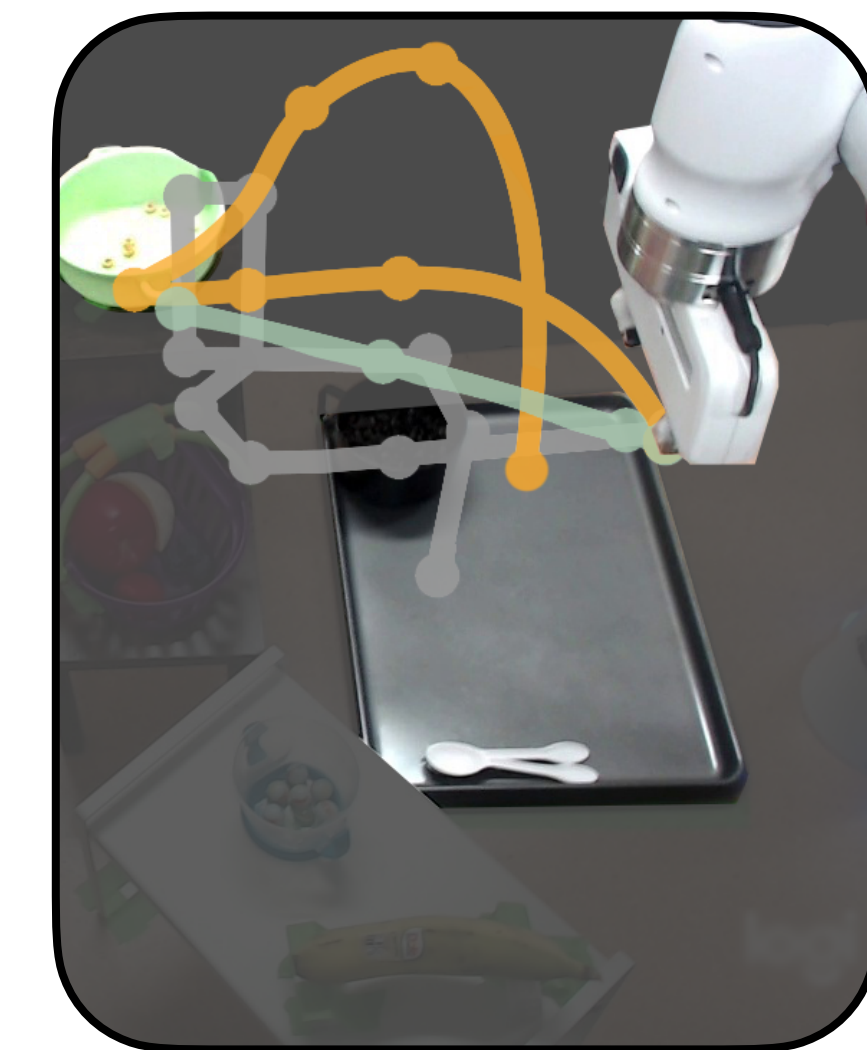


**User Study:** Successful task completion and user-preferred control with *15 demonstrations!*

End-Effector Control Imitation Learning LILA



pour cup



pick cereal



pick banana

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

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

*"put the banana into the basket"*

**Obtains 2x the success rate of baselines!**

