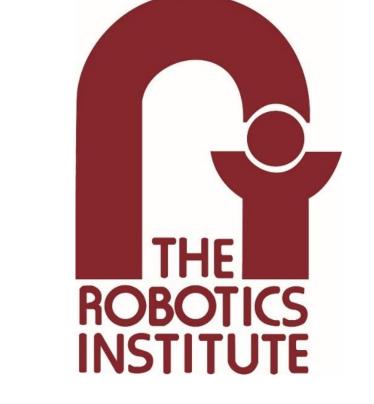






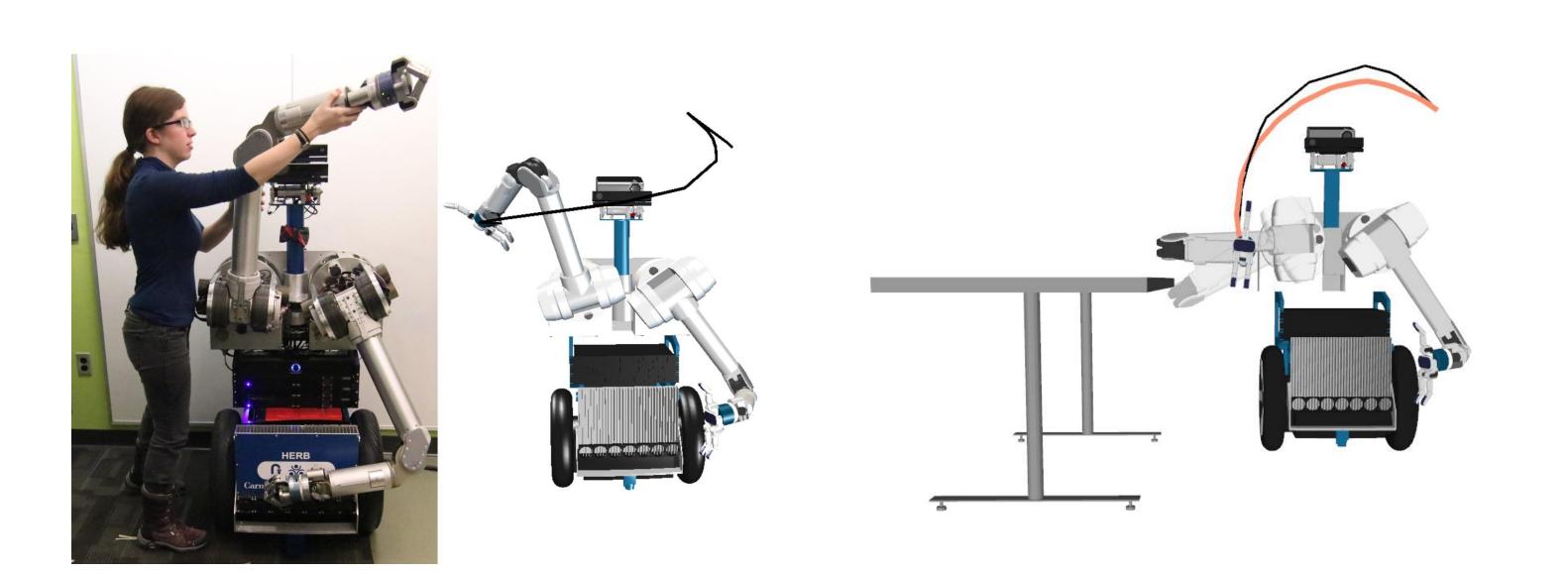
Following Paths in Task Space:

Distance Metrics and Planning Algorithms

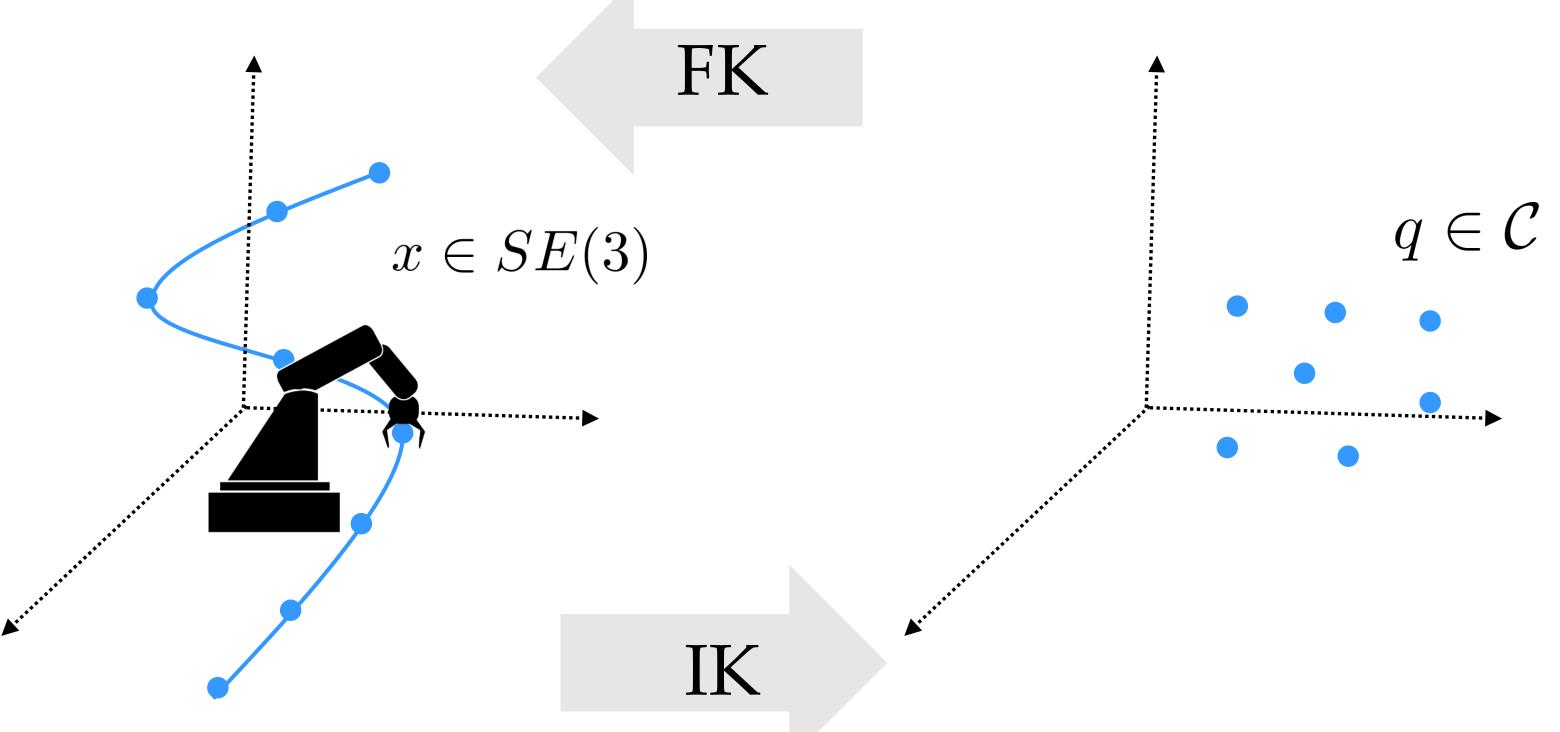




Rachel Holladay and Siddhartha Srinivasa Personal Robotics Lab, Robotics Institute, CMU

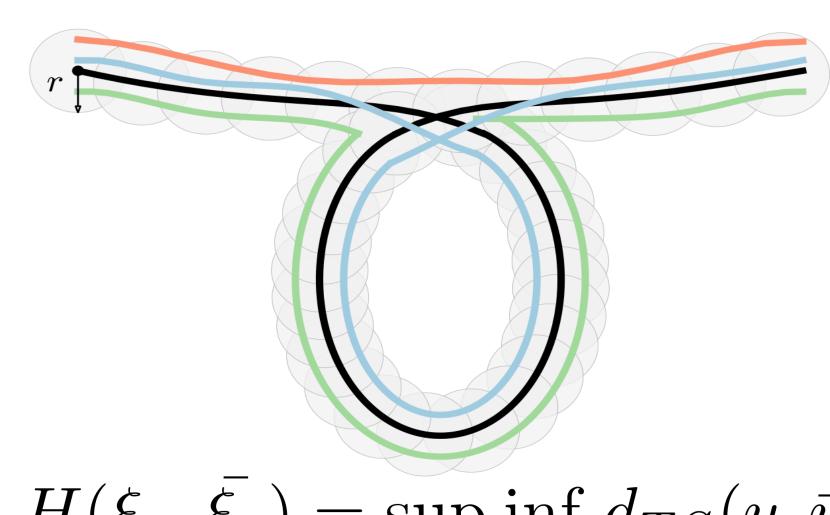


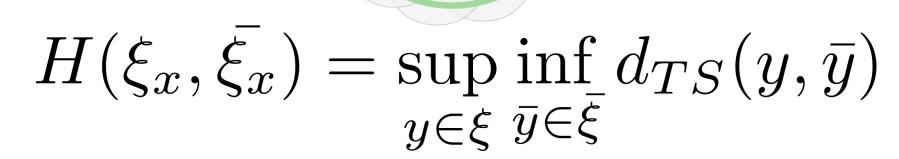
$$\xi^* = \arg\min_{\xi \in \Xi} ||\xi - \bar{\xi}||$$
 s.t. constraints

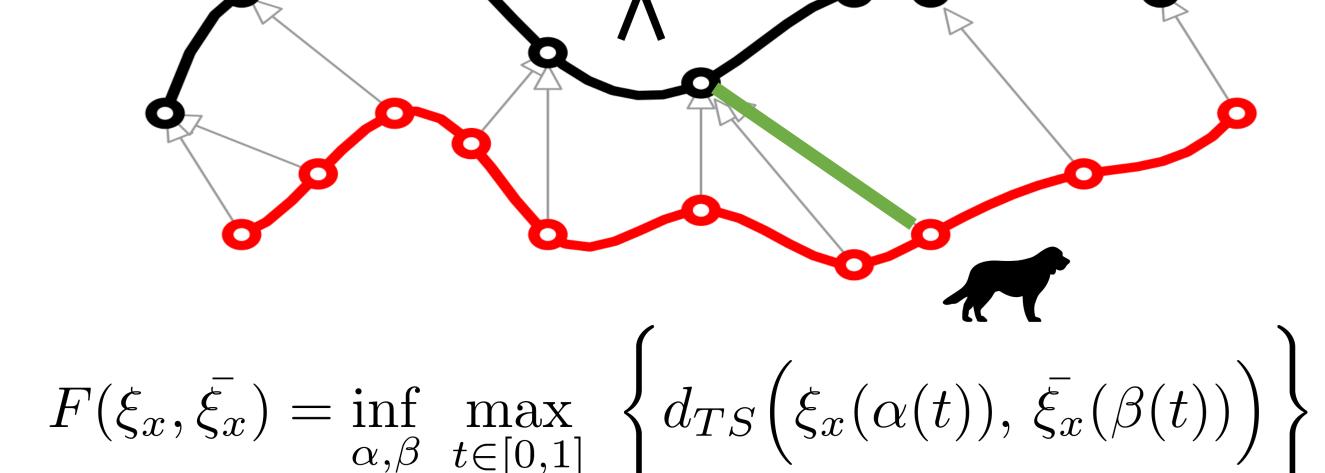


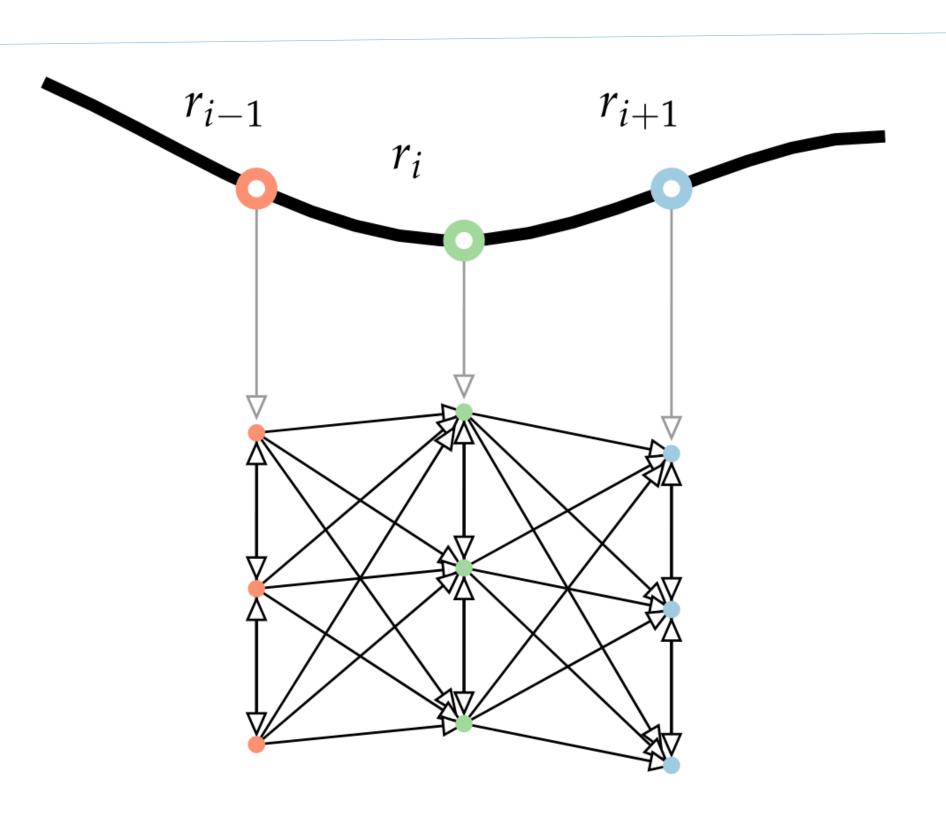
Task Space

Configuration Space









$$S = \{q \in \mathcal{C} | FK(q) \in \bar{\xi}\}$$

$$S = \bigcup_{\alpha \in [0,1]} IK(\bar{\xi}(\alpha))$$

