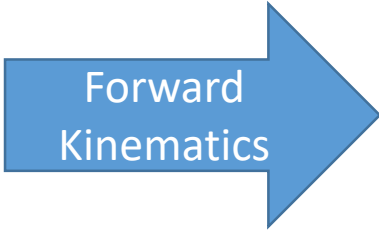# Joint Space

Cartesian Space

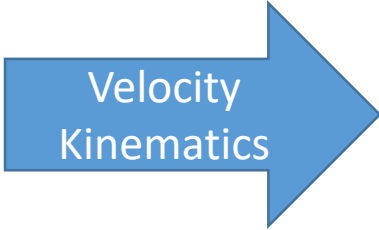Joint angles → **Forward Kinematics** → End-effector position and orientation (pose)

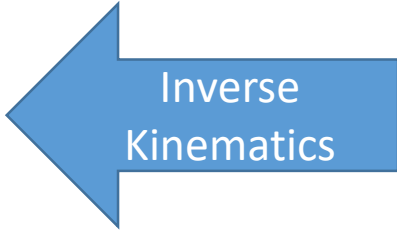Joint velocities → **Velocity Kinematics** → End-effector twist

Joint angles ← **Inverse Kinematics** ← Desired end-effector pose