

# Quantum Gates

Julie Butler

# One Qubit Gates

# Y Gate

# U Gates

- ▶ U1 Gate
- ▶ U2 Gate
- ▶ U3 Gate

# S Gate

# T Gate

# R Gate

# Two Qubit Gates



# Controlled-Phase Gate

# Controlled-RX Gate (and RY, RZ)

# Controlled One Qubit Gates (General)

# Three Qubit Gates

# C3SX Gate

# C3X Gate