

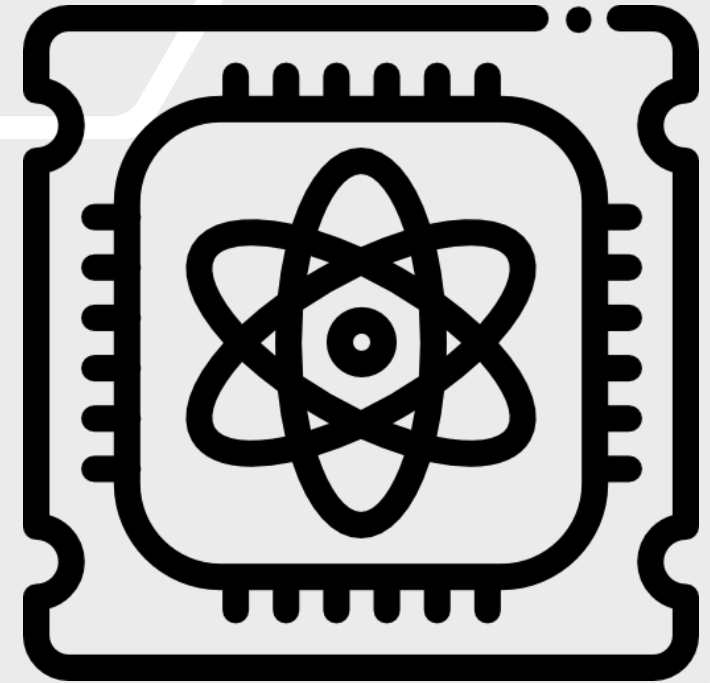
# EEC 189L: Quantum Computing

## Winter Quarter 2022

Lab TA:

Pranta Saha

2<sup>nd</sup> Year Ph.D. Student, ECE, UC Davis.



# WELCOME TO QUANTUM COMPUTING LAB



Come, Sit, Qiskit, Repeat.....



# Lab Schedule

- Monday/ Tuesday: 6:10 pm – 8 pm, Kemper 2110

Lab: 6:10 – 7:30 pm

Office Hours: 7:30 – 8:00 pm

- Zoom Links are already on Canvas/Zoom



# Keywords & Guidelines

- Qubit
- Quantum Simulation
- Qiskit
- Python
- Anaconda

*\*\* We suggest everyone to bring their own devices to code in Qiskit. We also suggest that you zoom in from a phone and work on your computer.*



# Important Links

- **Qiskit YT Channel Link:** [Qiskit – YouTube](#)
- **Qiskit Installation Tutorial:** [How to Install Qiskit — Programming on Quantum Computers](#)
- **Anaconda Installation (Jupyter Notebook):** [Installation — Anaconda documentation](#)
- **IBM Quantum Experience:** [IBM Quantum](#)
- **Quantum Tic-Tac-Toe Game:** [Introducing a new game: Quantum TiqTaqToe | Quantum Frontiers](#)

(download links for iOS and Android are posted on the page)



# Textbook

- We will follow the following two documents simultaneously to learn and code in Qiskit.
- **Qiskit Textbook:**
  - [Learn Quantum Computation using Qiskit](#)
  - [Qiskit Textbook \(Beta Version\)](#)



# Let's Begin.....

## **NORMAL COMPUTERS:**



## **QUANTUM COMPUTERS:**



Source: 9gag

