# Meeting Agenda

Date: December (what how is it already December) 1st, 2021

Time: 5:30 PM

Location: ILC Room 227

## Agenda

1. Status Update from everyone:
   1. What materials have you made it through?
   2. What materials do you understand?
   3. What do you have to spend more time on? Specific topics/ideas?
2. Christmas Break Plan
   1. No team meetings during from now until after Christmas. After exams I’ll send out a poll for when we can meet.
   2. Catch up on learning if there are some materials you haven’t made it through
   3. Work as a team to implement a QGAN (and hopefully better understand the theory behind them as a result)
3. First semester checklist:
   1. I am experienced with basic Quantum Gates and their implementation in Qiskit
   2. I can implement and understand famous Quantum Computing algorithms
   3. I understand the theory behind variational circuits, specifically:
      1. Ansatz
      2. How classical optimization is used to find minimums
   4. I am familiar with the main idea of GANs
      1. Adversarial training (generator and discriminator)
   5. I understand roughly how a GAN would be implemented in a Quantum Computer, specifically (stretch goals):
      1. How variational circuits are used to do “machine learning”
      2. How a QGAN is theoretically constructed
      3. Quantum Gradients in Circuits