# CS 7150: Deep Learning — Summer-Full 2020 — Paul Hand

Week 11 — Preparation Questions For Class
Due: Monday July 20, 2020 at 12:00 PM Eastern time via Gradescope

Name: [Put Your Name Here]
Collaborators: [Put Your Collaborators Here]

You may consult any and all resources in answering the questions. Your goal is to have answers that are ready to be shared with the class (or on a hypothetical job interview) as written. **Make sure to tag each question when you submit to Gradescope.**

**Directions:** Read the article 'Generative Adversarial Networks' and 'Wasserstein GAN'.

**Question 1.** *Explain how GANs work and how they are different from VAEs.*

**Response:**

**Question 2.** *What is the relationship of a GAN to game theory?*

**Response:**

**Question 3.** *What is mode collapse? Why does it happen?*

**Response:**

**Question 4.** *Explain the significance of Figure 3 in the GAN paper.*

**Response:**

**Question 5.** *What is the difference between the training algorithm for a GAN and a WGAN? .*

**Response:**