March 19th, 2019

Major Changes

Professor Murphy determined that the output for the model is too blurry and perhaps increasing the size of the latent vector could solve this issue. Professor Murphy also suggested that I should start implementing the 3D models now and forget about 2D because that is the end goal.

Accomplishments

I have built the pipeline for processing and the vanilla autoencoder from 3D images. I have also reviewed some previous papers on how to handle 3D microscopy images. Currently, I am working on training the autoencoder and building the Wasserstein autoencoder.

Meeting Milestones

I did not meet the milestone on finishing the 2D model because Professor Murphy determined that it best to focus on the 3D model. I am on track for the milestones on the 3D model.

Surprises

There were no surprises

Milestone Revisions

Since we are close to the deadlines, I will add a bit more detail to each milestone.

April 2nd

- Finish developing the Autoencoder and Wasserstein Autoencoder
- Start implementing the final Conditional Adversarial Network

April 23rd

- Have a working final model
- Tune and polish the final model