

# March 19<sup>th</sup>, 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 handling of the data. I have also reviewed some previous papers on how to handle 3D microscopy images. Currently, I am working on building the autoencoder for the 3D images.

## **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 2<sup>nd</sup>**

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

### **April 23<sup>rd</sup>**

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