

# 12/03/18 Weekly Report

## Hunter Kippen

### **1 What I worked on last week**

- I ostensibly created a working method for running the diamond search based block matching algorithm using Dr. Shackleford's Cython modules.
- I attempted to run my program on my video dataset, but...

### **2 Problems I encountered**

- I was getting a myriad of configuration issues, which I solved.
- However, I am still getting an issue with python and numpy version incompatibilities which is preventing me from completing my experiments.

### **3 What I plan to do this week**

- I plan on fixing these issues (Owen says that it worked for him using the Anaconda python framework, so I will be attempting to use that for development purposes.
- Once I get everything up and running, I am planning to make a few test images to see if the block matching works correctly. I will also run the algorithm on multiple videos with easily estimatable motion for sanity checking, and will compare against Dr Shackleford's own tools.
- After fixing any algorithmic errors, I will finish my script to compute the predicted frame and the prediction error sequence.
- Time permitting, I will also run this on my dataset, generating ROC curves and the like for my data.