Report for summer 2013

1. Doing the image analysis for Pseudomonas movies shoot in Chicago.

   Those movies made by Ziheng in Chicago are too bad to be analyzed with the software in the lab. So I worked to design a non-segmentation based algorithm to do the analysis of the velocity. I ran the code on those movies and do the statistics for Ziheng.

2. Helping Cameron to do the tracking of Myxo bacteria.

   I refined the segmentation result for them by cleaning the false positive cells and started to design the algorithm to do the tracking by using evolution scheme.

3. Refining the algorithm for segmenting Myxo bacteria.

   I was working with Dr Chen on improving the segmentation algorithm. I started arranging the algorithm we made into a draft.

4. Taking over Huijing’s code for the simulation of synchronization of Myxo bacteria.

   I took over the synchronization code and did the compiling on ultron to make sure it works. I also read the code to see any think might need to be improved.