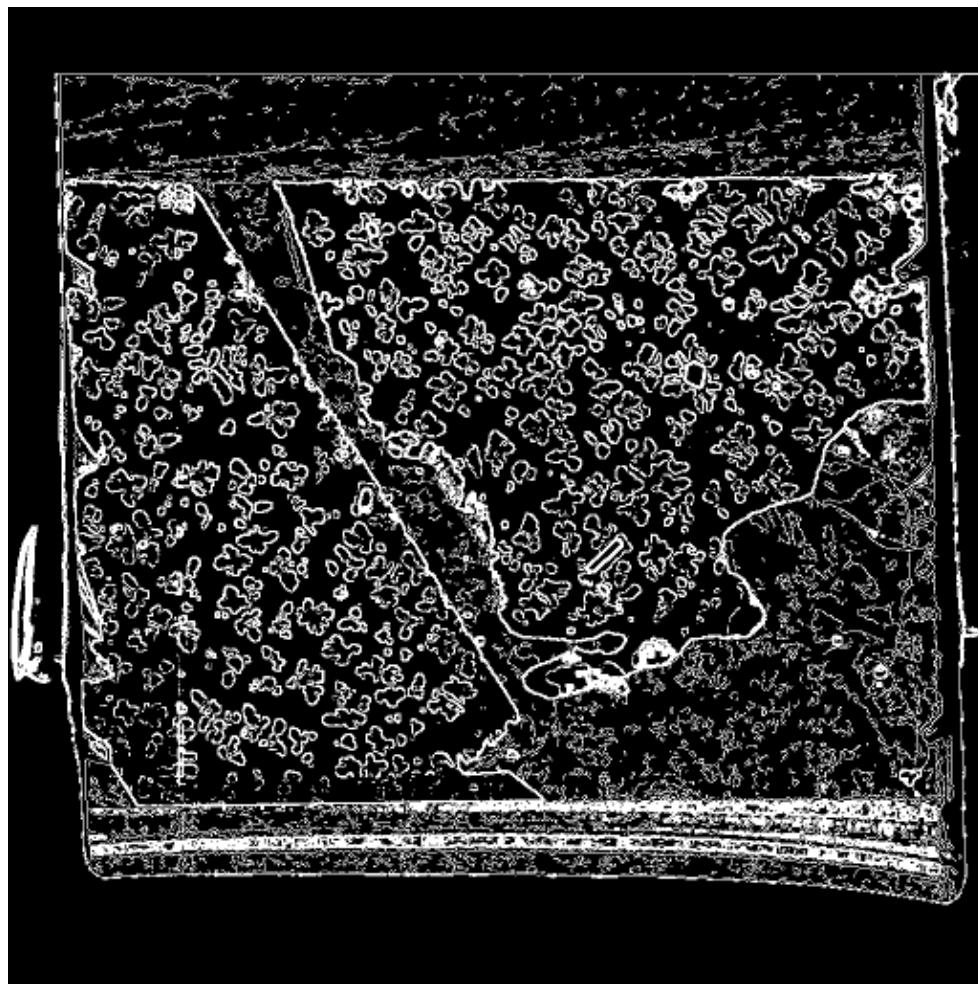


Progress Report 6
Apr. 4, 2017

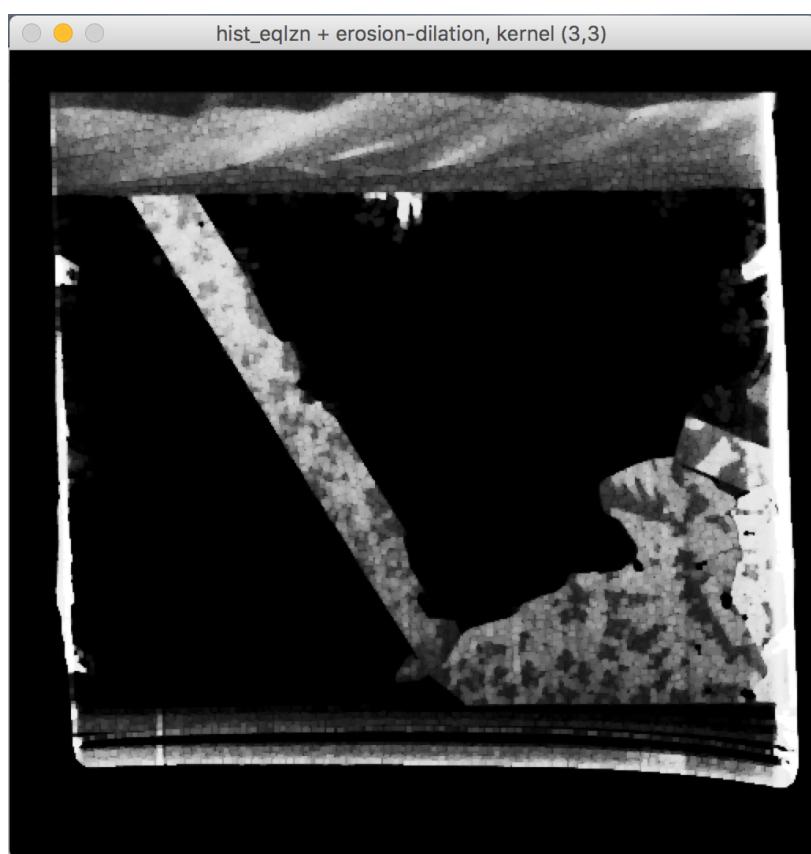
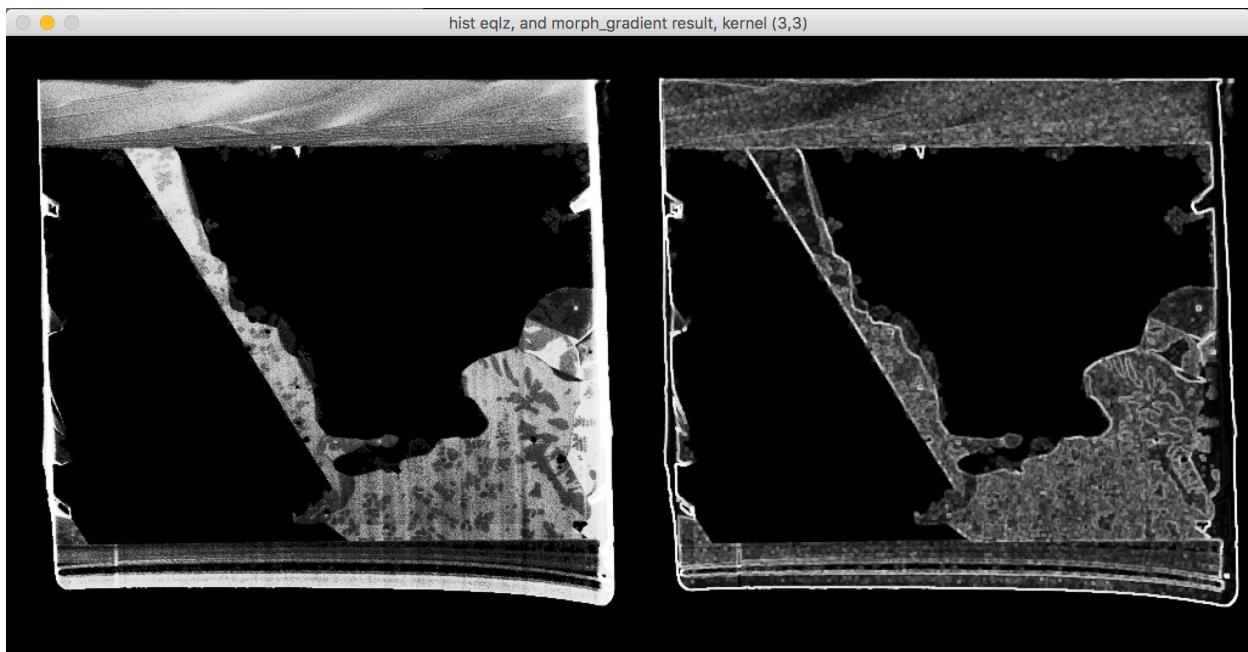
Current results:

- 2 folders of results images from 4000_data (188 pictures in each folder);
 - One folder for using Canny edge detection on twin/grain regions,
 - The other uses a series of histogram equalization, binary thresholding, and findContours
- Twin regions still very unclear;
- Percentage difference: 21.469%;
- Over the entire stack, results seem to be consistent - no apparent differences between images that are far apart in the stack.



Multiple trials on segmenting the twin/grain regions - more or less failed.

Trial 1: histogram equalization + morph_gradient result:
bottom half of grain region is still very noisy;

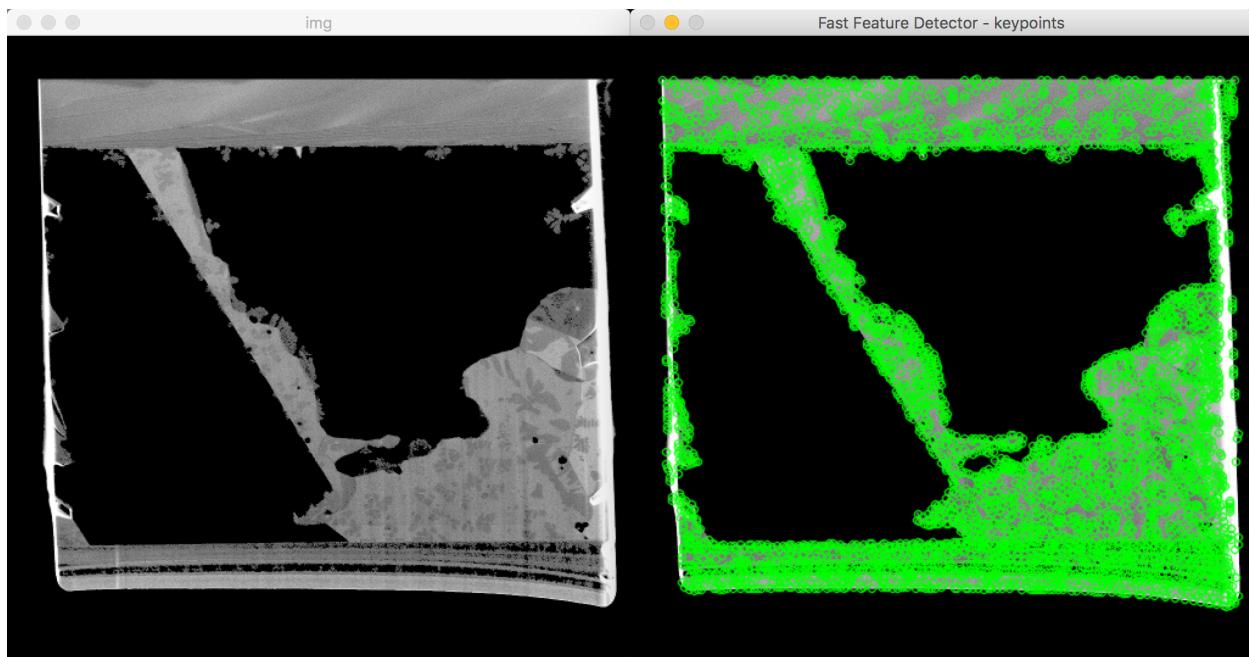


Trial 2: erosion + dilation after histogram equalization;

looks a lot more promising;
but computer still can't segment it

27555 Research Progress Report 6
Apr. 4, 2017

Trial 3: find key point, using Fast Feature Detector;
“everywhere is key point.”



Trial 4: Lets see if Numpy histogram equalization (which is more manual than a single line in python) gives better equalization - nope.

