### Lab #5: Due Friday Nov 10th by 10PM EST

In this lab we will look at the role and use of calibrated cameras for simple photomosaicing. We assume throughout that you will be using your camera phone for all the imaging associated with this homework.

1. Go through the Matlab example on feature based panoramic image stitching. We will use this as a template for our work

<https://www.mathworks.com/help/vision/ug/feature-based-panoramic-image-stitching.html?searchHighlight=panorama&s_tid=doc_srchtitle>

* 1. Now go out on Forsyth street and take multiple, overlapping images of the mural on the Latino Students Center building. You should have at least five or six images. NOTE for all of those who were in class we already did this with the images of the T-Rex!

1. Play with the harris feature detector file provided with his homework (note you also need the convolve2.m file - also provided) to get features well distributed across the image.
2. Use the Matlab example code to figure out how to make a panoramic mosaic of the entire building but make sure you use the harris detector that has been provided as opposed to the feature detector the Matlab example uses.
   1. Now repeat the mosaicing with images of a cinder block wall (we will show an example in class (again use 5-6 images that overlap by about 50%).
3. Collect one last set of images (of any other piece of graffiti art anywhere on campus) where the overlap is considerably smaller (say 15%). Does your mosaicing algorithm still work? What changes if any did you have to make.