

# Chong Zhang

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Subject: Quantification of cardiac micro-structures on intact whole heart using synchrotron X-ray imaging

## **Objectives:**

1. segment artery
2. collagen and fiber orientation

## Notes

- Chong: Size of data is not the bottleneck
- Michele: Could look in to template matching from electron tomography (microtubule or actin based templates) and modify to find vasculature
- isn't level-set an appropriate method for vascular segmentation ?  
([http://graphics.stanford.edu/papers/gpu\\_level\\_set/](http://graphics.stanford.edu/papers/gpu_level_set/) for instance)
- Devrim: We may give a try of our algorithm (previously applied on heart and lung vessel CT datasets) for your problem.

Join the discussion [here](#).