**Calvin B Shaw Thesis Work**

**The following MATLAB programs were used as a part of the Ph.D. thesis submitted.**

**Thesis Title: Development of Sparse Recovery based Optimized Diffuse Optical and Photoacoustic Image Reconstruction Methods**

Chapter-wise MATLAB-based Programs (Requires [NIRFAST](http://www.dartmouth.edu/~nir/nirfast/) for chapters-3, 4, and 5 and [k-wave](http://www.k-wave.org/) for chapter-6):

Chapter-3:

reconstruct\_incoherence\_selection.m

TikGCVfun.m

Chapter-4:

reconstruct\_cw\_sl0.m

reconstruct\_cw\_Lp.m

Chapter-5:

reconstruct\_stnd\_cw\_Lp.m

adaptive\_opt\_lambda.m

Chapter-6:

PAT\_reconstruction.m

sysBuildPAT\_mod\_Band.m