

Yunmei Chen
(<http://people.clas.ufl.edu/yun/>)

Department of Mathematics

College of Liberal Arts
and Sciences
(<http://clas.ufl.edu/>)

Research Projects

Current Research Projects

(http://people.clas.ufl.edu/yun/cv13_jan.pdf)

Algorithms for non-smooth convex/non-convex optimizations:(supported by NSF DMS-1115568 and DMS-1319050)

Accelerated primal dual (APD) methods with optimal rate of convergence;

Accelerated primal dual (ADMM) with optimal rate of convergence;

Optimal Scheme for a class of variational inequality;

Accelerated Bregman operator splitting with variable stepsizes (BOSVS) and optimal rate of convergence;

Fast accelerated bundle level type methods with optimal rate of convergence.

Nuclear moment imaging and image reconstruction (supported by NSF IIP-1237814)

Multi-contrast and multi-channel magnetic resonance (MR) image reconstruction with significantly reduced data;

Multi-shorts echo-planar diffusion weighted MR image reconstruction;

4-D cone-beam computed tomography (CBCT) image reconstruction;

Current Ph.D. Students:

Meng Liu

Hao Zhang

Wei Zhang

Xianqi Li

Chenxi Chen

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