



“Collaborative Sparsity and Compressive MRI,” talk for Modeling and Computation Seminar, University of Arizona Dept. of Mathematics. February 2013.

“Randomized Iterative Hard Thresholding,” poster presentation at UCLA IPAM workshop “Adaptive Data Analysis and Sparsity.” January, 2013.

“Bayesian Compressed Sensing: Image Reconstruction from Incomplete Measurements,” Talk for TRIF Imaging Fellowship Seminar, University of Arizona, November 2012.

“Bayesian Estimation Techniques for Sparse Approximation Problems,” talk for Program in Applied Mathematics Brown Bag Colloquium, University of Arizona, April 2012.

#### **AWARDS**

- Raytheon Advanced Scholars Program (RASP), 2008-2009
- University of Arizona: National Merit Scholar, 2003-2007
- University of Arizona Technology Research Initiative Fund (TRIF) Imaging Fellowship, 2012-2013

#### **WORK EXPERIENCE**

##### **University of Arizona**

Research Assistant

2012 – Present

Research in image processing and compressed sensing, with applications to general image processing and medical imaging (compressive MRI).

##### **Raytheon Missile Systems**

Systems Engineer II

2007 – 2014

Algorithm design, development and testing for infrared tracking systems. Large scale, collaborative simulation development and maintenance.

#### **PROGRAMMING LANGUAGES**

C/C++, Matlab, Java, Julia, Python.

Experience with boost and OpenCV libraries in C++

Version control experience with git, Subversion

#### **OTHER**

- Current U.S. Government Secret Clearance
- Member, Society for Industrial and Applied Mathematics (SIAM)
- Member, American Mathematical Society (AMS)
- Journal referee for IEEE Transaction on Signal Processing, IEEE Transactions on Image Processing, Elsevier Signal Processing Review

#### **REFERENCES**

**Dr. Ali Bilgin**, Assistant Professor. bilgin@email.arizona.edu

**Dr. Bin Dong**, Assistant Professor. dongbin@math.arizona.edu

**Daniel Hickman** (supervisor at Raytheon). dehickman@raytheon.com