

SELECTED
CONFERENCE
PUBLICATIONS

- [2] **L. Pfister** and Y. Bresler, “Learning Filter Bank Sparsifying Transforms,” submitted to IEEE Transactions on Signal Processing.
- [3] **L. Pfister** R. Bhargava, Y. Bresler, and P.S. Carney, “Inverse Scattering with Chemical Composition Constraints for Spectroscopic Tomography from Highly Undersampled Measurements”, In preparation.
- [4] Wen, B., Li, Y., **Pfister, L.**, & Bresler, Y., “Joint adaptive sparsity and low-rankness on the fly: an online tensor reconstruction scheme for video denoising”, in IEEE International Conference on Computer Vision (ICCV), 2017.
- [5] **L. Pfister** and Y. Bresler, “Automatic parameter tuning for image denoising with learned sparsifying transforms”, presented at International Conference on Acoustics, Speech and Signal Processing, New Orleans, LA, 2017.
- [6] **L. Pfister**, Y.Bresler, R.Bhargava, and P.S. Carney, “Inverse Scattering with Chemical Composition Constraints for Spectroscopic Tomography”, in Proc. OSA Conference on Mathematics in Imaging, 2016.
- [7] **L. Pfister**, R. Bhargava, P.S. Carney, and Y. Bresler, “Mid-Infrared Spectroscopic Tomography”, presented at the SIAM Conference on Imaging Science, 2016.
- [8] D.Stork, **L. Pfister**, M. Monjur, and P.R. Gill, “Designing application-specific optical gratings for computational diffractive sensing and imaging”, presented at the meeting of SPIE Defense + Commercial Imaging, 2016.
- [9] **L. Pfister** and Y. Bresler, “Model-based Tomographic Reconstruction with Adaptive Sparsifying Transforms,” presented at SPIE Electronic Imaging, San Francisco, CA, 2014.
- [10] **L. Pfister** and Y. Bresler, “Adaptive Sparsifying Transforms for Tomographic Reconstruction”, presented at International Conference on Acoustics, Speech and Signal Processing, Florence, Italy, 2014.
- [11] **L. Pfister** and Y. Bresler, “Linearized ADMM for Tomographic Reconstruction with Adaptive Sparsifying Transforms”, presented at Third International Conference on Image Formation in X-ray Computed Tomography“, Salt Lake City, UT., 2014.

AWARDS

Research

- Andrew T. Yang Research Award for *Compressive Mid-Infrared Spectroscopic Tomography*. **2014 – 2016**
- 2nd Place at IEEE Region 4 Student Paper Contest for *Satellite and Inertial Positioning System* **May 2010**
- 2nd Place at Bradley University Student Scholarship Expo for *Satellite and Inertial Positioning System* **May 2010**

Teaching

- Mavis Future Faculty Fellowship **2014 – 2015**
- E.A. Reid Fellowship for Students Pursuing an Academic Career in Engineering **2014 – 2015**
- Olesen Award for Excellence in Undergraduate Teaching **Fall 2012**
- List of Teachers Ranked as Excellent by Their Students
 - Fall 2010, Spring 2011, Fall 2011, Spring 2012, Fall 2012