

Wei Li

PRESENT ADDRESS

319 N Jackson St
APT 10F
STARKVILLE, MS, 39759

CONTACT

(662) 312-4727
Email: liwei089@gmail.com
WWW: <http://www.ece.msstate.edu/~wl237>

BIRTH February 1985; Suizhou, Hubei, China; Chinese Citizen

EDUCATION

Ph. D. in Electrical Engineering August 2009 – May 2012
at Mississippi State University, Starkville, MS. My supervisor is Dr. James E. Fowler and co-advisor is Dr. Saurabh Prasad. My thesis title: “Pattern Classification and Reconstruction for Hyperspectral Imagery”.

M. S. in Electrical Engineering September 2007 – July 2009
at Sun Yat-sen University, Guangzhou, China. My supervisor was Dr. Jiwu Huang. My thesis title: “Combined Encryption and Watermarking in Multimedia Content Protection”.

B. E. in Electrical Engineering (with Honors) September 2003 – July 2007
at Xidian University, Xi’an, China.

RESEARCH INTERESTS

Statistical Pattern Recognition, Hyperspectral Imagery Analysis, Synthetic Aperture Radar.

PROFESSIONAL EXPERIENCE

Mississippi State University, Geosystems Research Institute
Graduate Research Assistant — February 2012 – May 2012, supported by project entitled, “Scening of Levees by Synthetic Aperture Radar,” Department of Homeland Security via the Oak Ridge National Laboratory, January 2009 – August 2012 (PI: Dr. James V. Aanstoos).

Mississippi State University, Geosystems Research Institute
Graduate Research Assistant — September 2009 – February 2012, supported by project entitled, “Compressive Projection Principal Component Analysis,” National Science Foundation, Awards No. CCF-0915307, July 2009 – June 2012 (PI: Dr. James E. Fowler).

Sun Yat-sen University, School of Information Science and Technology
Graduate Research Assistant — September 2007 – July 2009, supported by project entitled, “Content Security for Visual Media,” National Basic Research Program of China (973 program), the Ministry of Science and Technology (2006CB303104), September 2006 – August 2010 (PI: Dr. Jiwu Huang).

PUBLICATIONS

Journal Articles

6. **W. Li**, E. W. Tramel, S. Prasad, and J. E. Fowler, “Nearest Regularized Subspace for Hyperspectral Classification,” *IEEE Transactions on Geoscience and Remote Sensing*, submitted, April 2012.
5. **W. Li**, S. Prasad, and J. E. Fowler, “Noise-Adjusted Subspace Discriminant Analysis for Hyperspectral Image Classification,” *IEEE Geoscience and Remote Sensing Letters*, accepted for publication pending on revisions.
4. **W. Li**, S. Prasad, and J. E. Fowler, “Classification and Reconstruction from Random Projections for Hyperspectral Imagery,” *IEEE Transactions on Geoscience and Remote Sensing*, accepted for publication pending on revisions.
3. S. Prasad, **W. Li**, J. E. Fowler, and L. Bruce, “Information Fusion in the Redundant-Wavelet-Transform Domain for Noise-Robust Hyperspectral Classification,” *IEEE Transactions on Geoscience and Remote Sensing*, to appear.

2. **W. Li**, S. Prasad, J. E. Fowler, and L. Bruce, "Locality Preserving Dimensionality Reduction and Classification for Hyperspectral Image Analysis," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 50, no. 4, pp. 1185-1198, April 2012.
1. **W. Li**, S. Prasad, J. E. Fowler, and L. Bruce, "Locality Preserving Discriminant Analysis in Kernel Induced Feature Spaces for Hyperspectral Image Classification," *IEEE Geoscience and Remote Sensing Letters*, vol. 8, no. 5, pp. 894-898, September 2011.

Conference Papers

7. **W. Li**, S. Prasad, J. E. Fowler, and Q. Du, "Noise-Adjusted Subspace Linear Discriminant Analysis for Hyperspectral-Image Classification" in *Proceeding of the International Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing*, Shanghai, China, June 4-7, 2012.
6. Z. Ye, S. Prasad, **W. Li**, J. E. Fowler, and M. He, "Locality-Preserving Discriminant Analysis and Gaussian Mixture Models for Spectral-Spatial Classification of Hperspectral Imagery," in *Proceeding of the International Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing*, Shanghai, China, June 4-7, 2012.
5. **W. Li**, S. Prasad, Z. Ye, J. E. Fowler, and M. Cui, "Locality-Preserving Discriminant Analysis for Hyperspectral Image Classification Using Local Spatial Information" in *Proceedings of the International Geoscience and Remote Sensing Symposium*, Munich, Germany, July 22-27, 2012.
4. **W. Li**, S. Prasad, J. E. Fowler, and M. Cui, "Locality Preserving Non-negative Matrix Factorization for Hyperspectral Image Classification," in *Proceedings of the International Geoscience and Remote Sensing Symposium*, Munich, Germany, July 22-27, 2012.
3. **W. Li**, S. Prasad, J. E. Fowler, and L. Bruce, "Class Dependent Compressive-Projection Principal Component Analysis for Hyperspectral Image Reconstruction," in *Proceeding of the International Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing*, Lisbon, Portugal, June 6-9, 2011.
2. **W. Li**, S. Prasad, J. E. Fowler, and L. Bruce, "A Multi-Modal Pattern Classification Framework for Hyperspectral Image Analysis," in *Proceeding of the International Workshop on Hyperspectral Image and Signal Processing: Evolution in Remote Sensing*, Lisbon, Portugal, June 6-9, 2011.
1. **W. Li** and J. E. Fowler, "Decoder-Side Dimensionality Determination for Compressive Projection Principle Component Analysis of Hyperspectral Data," in *Proceedings of the International Conference on Image Processing*, Brussels, Belgium, September 11-14, 2011.

Patents

3. **W. Li**, J. Huang, and H. Liu, "Image CIPHERING, Deciphering Method and Device," Publication No.: CN101394553 published on 25-Mar-2009, Application No.: CN200810168853.0 filed on 28-Sep-2008.
2. **W. Li**, H. Liu, and J. Huang, "Safe Video Transmission System and Application Method Thereof," Publication No.: CN101572805 published on 04-Nov-2009, Application No.: CN2009-10040035.7 filed on 05-Jun-2009.
1. Y. Guo, **W. Li**, H. Liu, J. Huang, and Y. Fang, "Method for Protecting H.264 Video Data by Using Robust Watermarks," Publication No.: CN101583033 published on 18-Nov-2009, Application No.: CN200910040049.9 filed on 05-Jun-2009.

PROFESSIONAL ACTIVITIES

Society Memberships

- Student Member, IEEE
- Student Member, IEEE Signal Processing Society
- Student Member, IEEE Geoscience and Remote Sensing Society

Publication Review

- IEEE Transactions on Geoscience and Remote Sensing

- IEEE Geoscience and Remote Sensing Letters
- IEEE Journal of Selected Topics in Applied Earth Observation and Remote Sensing
- Elsevier, Information Fusion

HONORS AND AWARDS

- “Graduate Research Assistant of the Year Award” from Geosystems Research Institute at Mississippi State University, May 2012
- “Graduate Student Research Award” from Bagley College of Engineering at Mississippi State University, April 2012
- Recipient, Graduate Assistant Scholarship from Geosystems Research Institute at Mississippi State University (August 2009 – May 2012)
- Recipient, M. S. Scholarship from Sun Yat-sen University, 2 years graduate support (September 2007 – July 2009)
- “Outstanding Graduate Award” from Xidian University, July 2007
- Second Prize in 5th Shaanxi Provincial Higher Mathematics Competition, April 2005

TRANSCRIPT

Table 1: Transcript at Mississippi State University.

<i>SUBJECT</i>	<i>COURSE TITLE</i>	<i>GRADE</i>
ECE6413	Digital Signal Process	A
ECE8453	Introduction to Wavelets	A
ECE8443	Pattern Recognition	A
ECE8483	Image and Video Coding	A
ECE8803	Random Signals & Systems	B
ECE6423	Intro to Remote Sensing	A
ECE8473	Digital Image Processing	A
ECE8813	Information Theory	A
GPA	<i>3.87 (out of 4.0)</i>	