

# Sheng Li

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Department of Computer Science  
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**EDUCATION**      **Northeastern University**      Boston, MA, USA  
Ph.D. in Computer Engineering      09/2012 - 05/2017  
*Thesis:* “Robust Data Representations for Visual Learning”  
*Advisor:* Professor Yun Raymond Fu

**Nanjing University of Posts and Telecommunications (NUPT)**      Nanjing, China  
M.Eng. in Information Security      09/2010 - 07/2012  
*Thesis:* “Divide and Conquer based Discrimination Feature Extraction and Its Application”

**Nanjing University of Posts and Telecommunications (NUPT)**      Nanjing, China  
B.Eng. in Computer Science and Engineering      09/2006 - 07/2010  
*Thesis:* “Kernel DCT Discriminant Analysis for Face Recognition”

**PROFESSIONAL EXPERIENCE**

- **Assistant Professor**      08/2018 - *Present*  
Department of Computer Science,  
University of Georgia (UGA), Athens, GA
- **Data Scientist**      06/2017 - 07/2018  
BigData Experience Lab,  
Adobe Research, San Jose, CA
- **Research Assistant**      08/2012 - 05/2017  
Department of Electrical and Computer Engineering,  
Northeastern University (NEU), Boston, MA  
*Advisor:* Prof. Yun Raymond Fu
- **Data Scientist Intern**      05/2015 - 08/2015  
Adobe Research, San Jose, CA  
*Mentors:* Dr. Nikos Vlassis, Dr. Jaya Kawale
- **Data Scientist Intern**      05/2014 - 08/2014  
Adobe Research, San Jose, CA  
*Mentor:* Dr. Jaya Kawale
- **Research Assistant**      10/2007 - 06/2012  
Nanjing University of Posts and Telecommunications, China  
*Advisor:* Prof. Xiaoyuan Jing

## RESEARCH INTERESTS

- **Robust Data Mining and Machine Learning:** low-rank and sparse modeling, robust graph constructions, robust subspace discovery, robust dictionary learning, robust transfer learning, robust multi-view learning
- **Deep Learning:** deep collaborative filtering, deep clustering, adversarial training
- **Time Series Modeling:** multivariate time series classification and prediction, multi-view time-series classification
- **User Behavior Modeling:** response prediction, recommendation system, customer segmentation
- **Causal Inference:** randomized nearest neighbor matching for estimating counterfactuals, domain adaptation for estimating treatment effects
- **Visual Intelligence:** human motion segmentation, 3D action recognition, person re-identification, face recognition, multi-modal biometrics

## HONORS & AWARDS

- Best Paper Award (1 out of 389 submissions) 2014  
*SIAM International Conf. Data Mining (SDM)*
- Best Paper Award Candidate (4 out of 716 submissions) 2014  
*IEEE International Conf. Multimedia Expo (ICME)*
- Best Student Paper Honorable Mention Award 2013  
*IEEE International Conf. Automatic Face and Gesture Recognition (FG)*
- Baidu Research Fellowship 2016
- Chinese Government Award for Outstanding Self-Financed Students Abroad 2015  
Chinese Government
- Outstanding Graduate Student Award 2015  
Highest research award for graduate students, *Northeastern University*
- The inaugural Adobe Research Fellowship Finalist 2015
- Travel Awards
  - ◇ SIGIR Student Travel Award 2016
  - ◇ KDD Student Travel Award 2016
  - ◇ CVPR Student Travel Award 2016
  - ◇ IJCAI Student Travel Award 2016
  - ◇ CIKM Student Travel Award 2015
  - ◇ ICDM Student Travel Award 2014
  - ◇ SDM Student Travel Award 2014
- The 8th National Post-Graduate Mathematical Contest in Modeling (*Second Prize*) 2011  
Ministry of Education, China
- Outstanding Graduate Student, *NUPT* 2011
- Huawei Scholarship, *NUPT* 2011
- Excellent Bachelors Thesis Award in Jiangsu Province *The Second Prize* 2010
- Research and Innovation Award, *NUPT* 2009
- TongDing Enterprise Scholarship, *NUPT* 2008
- The Jiangsu Province Government Scholarship, *Jiangsu Province* 2006

## CONFERENCE TUTORIALS

- **Sheng Li** and Yun Fu, “Low-Rank and Sparse Modeling for Data Analytics”, *International Joint Conference on Artificial Intelligence (IJCAI)*, 2016.
- **Sheng Li**, Yun Fu, Zhouchen Lin, Rene Vidal, Ehsan Elhamifar, and Jiashi Feng, “Low-Rank and Sparse Modeling for Visual Analytics”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2016.

## PUBLICATIONS *Citations: 830; H-index: 17, i10-index: 22 (Google Scholar, July 2018)*

- BOOK

[B1] **Sheng Li** and Yun Fu. *Robust Representations for Data Analytics*, Springer, 2017.

- BOOK CHAPTERS

[P3] Kang Li, **Sheng Li** and Yun Fu. Time Series Modeling for Activity Prediction. *Human Activity Recognition and Prediction*, Springer, 2016.

[P2] **Sheng Li**, Liangyue Li and Yun Fu. Low-Rank Dictionary Learning. *Low-Rank and Sparse Modeling for Visual Analysis*, Springer, 2014..

- [P1] **Sheng Li**, Ming Shao and Yun Fu. Low-Rank Outlier Detection. *Low-Rank and Sparse Modeling for Visual Analysis*, Springer, 2014.
- JOURNAL PAPERS (Accepted/Published)
    - ◇ 1 **T-PAMI**, 2 **T-NNLS**, 1 **T-KDE**, 1 **TKDD**, 1 **TOMM**, 2 **T-IP**, 3 **T-CSVT**, 1 **DMKD**, 1 **PR**, 1 **IVC**, 1 **PRL**, and 1 **SP**
- [J19] **Sheng Li**, Ming Shao, and Yun Fu. “Person Re-identification by Cross-View Multi-Level Dictionary Learning”. *IEEE Trans. Pattern Analysis and Machine Intelligence (T-PAMI)*, 2017.
- [J18] **Sheng Li**, Kang Li, and Yun Fu. “Self-Taught Low-Rank Coding for Visual Learning”. *IEEE Trans. Neural Networks and Learning Systems (T-NNLS)*, 2017.
- [J17] **Sheng Li**, Ming Shao, and Yun Fu. “Multi-View Low-Rank Analysis with Applications to Outlier Detection”. *ACM Trans. Knowledge Discovery from Data (T-KDD)*, 2017.
- [J16] **Sheng Li**, Kang Li, and Yun Fu. “Early Recognition of 3D Human Actions”. *ACM Trans. Multimedia Computing Communications and Applications (TOMM)*, 2017.
- [J15] Kang Li, **Sheng Li**, Sangmin Oh, and Yun Fu. “Videography based Unconstrained Video Analysis”. *IEEE Trans. Image Processing (T-IP)*, 2017.
- [J14] Chengcheng Jia, Ming Shao, **Sheng Li**, Handong Zhao, and Yun Fu. “Stacked Denoising Tensor Auto-Encoder for Action Recognition with Spatiotemporal Corruptions”. *IEEE Trans. Image Processing (T-IP)*, 2017.
- [J13] Hongfu Liu, Ming Shao, **Sheng Li**, Yun Fu. “Infinite Ensemble Clustering”. *Data Mining and Knowledge Discovery (DMKD)*, 2017.
- [J12] Guoqiang Zhong, Yan Zheng, **Sheng Li**, Yun Fu. “SLMOML: Online Metric Learning with Global Convergence”. *IEEE Trans. Circuits System for Video Technology (T-CSVT)*, 2017.
- [J11] **Sheng Li** and Yun Fu. “Learning Robust and Discriminative Subspace with Low-Rank Constraints”. *IEEE Trans. Neural Networks and Learning Systems (T-NNLS)*, 27(11):2160-2173, 2016.
- [J10] **Sheng Li** and Yun Fu. “Learning Balanced and Unbalanced Graphs via Low-Rank Coding”. *IEEE Trans. Knowledge and Data Engineering (T-KDE)*, 27(5):1274-1287, 2015.
- [J9] Ya Su, **Sheng Li**, Shengjin Wang, and Yun Fu. “Submanifold Decomposition”. *IEEE Trans. Circuits System for Video Technology (T-CSVT)*, 24(11):1885-1897, 2014.
- [J8] **Sheng Li\***, Liang-Yue Li\* and Yun Fu. “Learning Low-Rank and Discriminative Dictionary for Image Classification”. *Image and Vision Computing (IVC)*, 32(10):814-823, 2014. (**Invited Paper**, \* indicates equal contributions).
- [J7] Xiaoyuan Jing, **Sheng Li**, David Zhang, Jian Yang, and Jingyu Yang. “Supervised and Unsupervised Parallel Subspace Learning for Large-Scale Image Recognition”. *IEEE Trans. Circuits System for Video Technology (T-CSVT)*, 22(10):1497-1511, 2012.
- [J6] Xiaoyuan Jing, **Sheng Li**, David Zhang, Yongfang Yao, Chao Lan, Jiasen Lu, and Jingyu Yang. “Optimal Subset-Division based Discrimination and Its Kernelization for Face and Palmprint Recognition”, *Pattern Recognition (PR)*, 45(10):3590-3602, 2012.
- [J5] Xiaoyuan Jing, **Sheng Li**, Wenqian Li, Yongfang Yao, Chao Lan, Jiasen Lu, and Jingyu Yang. “Palmprint and Face Multi-Modal Biometric Recognition Based on SDA-GSVD and Its Kernelization”. *Sensors*, vol. 12, no. 5, pp. 5551-5571, 2012.

- [J4] Xiaoyuan Jing, Chao Lan, David Zhang, Jingyu Yang, Min Li, **Sheng Li**, Songhao Zhu. “Face Feature Extraction and Recognition based on Discriminant Subclass-center Manifold Preserving Projection”. *Pattern Recognition Letters (PRL)*, vol. 33, no. 6, pp. 709-717, 2012.
- [J3] Xiaoyuan Jing, **Sheng Li**, Chao Lan, David Zhang, Jingyu Yang, and Qian Liu. “Color Image Canonical Correlation Analysis for Face Feature Extraction and Recognition”, *Signal Processing (SP)*, vol. 91, no. 8, pp. 2132-2140, 2011.
- [J2] **Sheng Li**, Xiaoyuan Jing, Lusha Bian, Shiqiang Gao, Qian Liu, and Yongfang Yao. “Facial Image Recognition based on a Statistical Uncorrelated Near Class Discriminant Approach”, *IEICE Trans. on Information & Systems*, Vol. E93-D, No.4, pp. 934-937, Apr. 2010.
- [J1] **Sheng Li**, Yongfang Yao, Xiaoyuan Jing, Heng Chang, Shiqiang Gao, David Zhang, Jingyu Yang. “Face Recognition based on Nonlinear DCT Discriminant Feature Extraction using Improved Kernel DCV”, *IEICE Trans. on Information & Systems*, Vol. E92-D, No.12, Dec. 2009.

- CONFERENCE PAPERS

- ◇ 5 **IJCAI**, 3 **AAAI**, 3 **CIKM**, 2 **SDM**, 2 **IEEE BigData**, 1 **NIPS**, 1 **KDD**, 1 **ICDM**, 1 **SIGIR**, 1 **ICCV**, 1 **ECCV**, 3 **IJCNN**, and 12 [**FG**, **ICME**, **ICPR**, **ICIP**]

- [C40] Kai Li, **Sheng Li**, Zhengming Ding, Weidong Zhang, and Yun Fu. Latent Discriminant Subspace Representations for Multi-view Outlier Detection. *The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI)*, 2018.
- [C39] Kai Li, Zhengming Ding, **Sheng Li**, and Yun Fu. Discriminative Semi-coupled Projective Dictionary Learning for Low-Resolution Person Re-Identification. *The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI)*, 2018.
- [C38] Shumin Jing, **Sheng Li**. Contextual Collaborative Filtering for Student Response Prediction in Mixed-Format Tests. *The Thirty-Second AAAI Conference on Artificial Intelligence (AAAI)*, 2018. (Poster)
- [C37] Zhengming Ding, **Sheng Li**, Ming Shao and Yun Fu. Graph Adaptive Knowledge Transfer for Unsupervised Domain Adaptation. *European Conference on Computer Vision (ECCV)*, 2018.
- [C36] Tuan Manh Lai, Trung Bui, **Sheng Li**. A Review on Deep Learning Techniques Applied to Answer Selection. *The 27th International Conference on Computational Linguistics (COLING)*, 2018.
- [C35] Tuan Manh Lai, Trung Bui, **Sheng Li**, Nedim Lipka. A Simple End-to-End Question Answering Model for Product Information. *ACL Workshop on Economics and Natural Language Processing (ECONLP)*, 2018.
- [C34] Zhao Zhang, Weiming Jiang, **Sheng Li**, Jie Qin, Guangcan Liu, Shuicheng Yan Robust Locality-Constrained Label Consistent KSVD by Joint Sparse Embedding. *International Conference on Pattern Recognition (ICPR)*, 2018.
- [C33] Jiahuan Ren, Zhao Zhang, **Sheng Li**, Guangcan Liu, Meng Wang, Shuicheng Yan. Robust Projective Low-Rank and Sparse Representation by Robust Dictionary Learning. *International Conference on Pattern Recognition (ICPR)*, 2018.
- [C32] Huan Zhang, Zhao Zhang, **Sheng Li**, Qiaolin Ye, Mingbo Zhao, Meng Wang. Robust Adaptive Label Propagation by Double Matrix Decomposition. *International Conference on Pattern Recognition (ICPR)*, 2018.
- [C31] Lei Wang, Zhao Zhang, **Sheng Li**, Guangcan Liu, Chenping Hou and Jie Qin. Similarity-Adaptive Latent Low-Rank Representation for Robust Data Representation. *The 15th Pacific Rim International Conference on Artificial Intelligence (PRICAI)*, 2018.

- [C30] **Sheng Li**, Yun Fu. “Matching on Balanced Nonlinear Representations for Treatment Effects Estimation”. *The Twenty-ninth Annual Conference on Neural Information Processing Systems (NIPS)*, 2017.
- [C29] **Sheng Li**, Yun Fu. “Robust Multi-Label Semi-Supervised Classification”. *IEEE International Conference on Big Data (IEEE BigData)*, 2017.
- [C28] **Sheng Li**, Hongfu Liu, Zhiqiang Tao, and Yun Fu. “Multi-View Graph Learning with Adaptive Label Propagation”. *IEEE International Conference on Big Data (IEEE BigData)*, 2017.
- [C27] Zhiqiang Tao, Hongfu Liu, **Sheng Li**, Zhengming Ding, and Yun Fu. “From Ensemble Clustering to Multi-View Clustering”. *The 26th International Joint Conference on Artificial Intelligence (IJCAI)*, 2017.
- [C26] **Sheng Li**, Nikos Vlassis, Jaya Kawale and Yun Fu. “Matching via Dimensionality Reduction for Estimation of Treatment Effects in Digital Marketing Campaigns”, *The 25th International Joint Conference on Artificial Intelligence (IJCAI)*, 2016.
- [C25] **Sheng Li**, Yaliang Li and Yun Fu. “Multi-View Time Series Classification: A Discriminative Bilinear Projection Approach”, *The 25th ACM International Conference on Information and Knowledge Management (CIKM)*, 2016. (Long Paper)
- [C24] Zhiqiang Tao, Hongfu Liu, **Sheng Li** and Yun Fu. “Robust Spectral Ensemble Clustering”, *The 25th ACM International Conference on Information and Knowledge Management (CIKM)*, 2016. (Long Paper)
- [C23] Hongfu Liu, Ming Shao, **Sheng Li** and Yun Fu. “Infinite Ensemble for Image Clustering”, *The 22nd ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2016.
- [C22] **Sheng Li** and Yun Fu. “Unsupervised Transfer Learning via Low-Rank Coding for Image Clustering”, *International Joint Conference on Neural Networks (IJCNN)*, 2016.
- [C21] Guoqiang Zhong, Yan Zheng, **Sheng Li** and Yun Fu. “Scalable Large Margin On-line Metric Learning,” *International Joint Conference on Neural Networks (IJCNN)*, 2016.
- [C20] **Sheng Li**, Kang Li and Yun Fu. “Temporal Subspace Clustering for Human Motion Segmentation,” *International Conference on Computer Vision (ICCV)*, 2015.
- [C19] **Sheng Li**, Ming Shao and Yun Fu. “Cross-View Projective Dictionary Learning for Person Re-identification,” *International Joint Conference on Artificial Intelligence (IJCAI)*, 2015.
- [C18] Ming Shao, **Sheng Li**, Zhengming Ding and Yun Fu. “Deep Linear Coding for Fast Graph Clustering,” *International Joint Conference on Artificial Intelligence (IJCAI)*, 2015.
- [C17] **Sheng Li**, Jaya Kawale and Yun Fu. “Deep Collaborative Filtering via Marginalized Denoising Auto-encoder,” *The 24th ACM International Conference on Information and Knowledge Management (CIKM)*, 2015. (Long Paper)
- [C16] **Sheng Li**, Jaya Kawale and Yun Fu. “Predicting User Behavior in Display Advertising via Dynamic Collective Matrix Factorization,” *The 38th ACM SIGIR Conference on Research and Development in Information Retrieval (SIGIR)*, 2015.
- [C15] **Sheng Li**, Ming Shao and Yun Fu. “Multi-View Low-Rank Analysis for Outlier Detection,” *SIAM International Conference on Data Mining (SDM)*, 2015.
- [C14] **Sheng Li** and Yun Fu. “Robust Subspace Discovery through Supervised Low-Rank Constraints,” *SIAM International Conference on Data Mining (SDM)*, pp. 163-171, 2014. (Oral Presentation, **Best Paper Award**, 1 out of 389 submissions)
- [C13] Kang Li, **Sheng Li** and Yun Fu. “Early Classification of Ongoing Observation,” *IEEE International Conference on Data Mining (ICDM)*, 2014. (Regular Paper)

- [C12] **Sheng Li**, Ming Shao and Yun Fu. “Locality Linear Fitting One-class SVM with Low-Rank Constraints for Outlier Detection,” *International Joint Conference on Neural Networks (IJCNN)*, 2014.
- [C11] Ming Shao, **Sheng Li**, Tongliang Liu, Dacheng Tao, Thomas S. Huang and Yun Fu. “Learning Relative Features Through Adaptive Pooling for Image Classification,” *IEEE International Conference on Multimedia and Expo (ICME)*, 2014. (Oral Presentation, **Best Paper Award Candidate**, 4 out of 716 submissions)
- [C10] **Sheng Li** and Yun Fu. “Low-Rank Coding with  $b$ -Matching Constraint for Semi-supervised Classification,” *International Joint Conference on Artificial Intelligence (IJCAI)*, pp. 1472-1478, 2013.
- [C9] **Sheng Li**, Peng Li and Yun Fu. “Understanding 3D Human Torso Shape via Manifold Clustering,” *SPIE Defense, Security, and Sensing (DSS)*, 2013.
- [C8] Liangyue Li, **Sheng Li** and Yun Fu. “Discriminative Dictionary Learning with Low-Rank Regularization for Face Recognition,” *The 10th IEEE International Conference on Automatic Face and Gesture Recognition (FG)*, 2013. (**Best Student Paper Honorable Mention Award**)
- [C7] **Sheng Li**, Xiaoyuan Jing, David Zhang, Yongfang Yao, and Lusha Bian. “A Novel Kernel Discriminant Feature Extraction Framework based on Mapped Virtual Samples for Face Recognition,” *IEEE International Conference on Image Processing (ICIP)*, pp. 3066-3069, 2011.
- [C6] Xiaoyuan Jing, **Sheng Li**, David Zhang, and Jingyu Yang. “Face Recognition based on Local Uncorrelated and Weighted Global Uncorrelated Discriminant Transforms,” *IEEE International Conference on Image Processing (ICIP)*, pp. 3110-3113, 2011.
- [C5] Xiaoyuan Jing, **Sheng Li**, Songhao Zhu, Qian Liu, Jingyu Yang, and Jiasen Lu. “Supervised Local Sparsity Preserving Projection for Face Feature Extraction,” *the First Asian Conference on Pattern Recognition (ACPR)*, pp. 555-559, 2011.
- [C4] Xiaoyuan Jing, **Sheng Li**, Yongfang Yao, Lusha Bian, and Jingyu Yang. “Kernel Uncorrelated Adjacent-Class Discriminant Analysis,” *International Conference on Pattern Recognition (ICPR)*, pp. 706-709, 2010.
- [C3] Xiaoyuan Jing, Qian Liu, Chao Lan, Jiangyue Man, **Sheng Li**, David Zhang. “Holistic orthogonal analysis of discriminant transforms for color face recognition,” *IEEE International Conference on Image Processing (ICIP)*, pp. 3841-3844, 2010.
- [C2] **Sheng Li**, Xiaoyuan Jing, Qian Liu, Yanyan Lv, Yongfang Yao, and Wei Xu. “Kernel-plural Discriminant Analysis based on Fourier Transform and Its Application to Face Recognition,” *Chinese Conference on Pattern Recognition (CCPR)*, pp. 503-507, 2009.
- [C1] **Sheng Li**, Yongfang Yao, Xiaoyuan Jing, Zhuli Shao, David Zhang, and Jingyu Yang. “Nonlinear DCT Discriminant Feature Extraction with Generalized KDCV for Face Recognition,” *Proceedings of International Symposium on Intelligent Information Technology Application (IITA)*, vol. 3, pp. 338-341, 2008.

- WORKSHOP AND DOCTORAL CONSORTIUM PAPERS

- [W3] **Sheng Li**. “Learning Robust Representations for Data Analytics,” *The Doctoral Consortium at the International Joint Conference on Artificial Intelligence (IJCAI-DC)*, 2016.
- [W2] **Sheng Li**. “Dictionary Learning for Motion Segmentation and Person Re-identification,” *The Doctoral Consortium at the International Conference on Computer Vision and Pattern Recognition (CVPR-DC)*, 2016.
- [W1] **Sheng Li**. “Low-Rank Balanced Graph for Semi-supervised Learning,” *The Doctoral Consortium at the SIAM International Conference on Data Mining (SDM-DC)*, 2014.

## PATENTS

- *Campaign Effectiveness Determination using Dimension Reduction*  
**Sheng Li**, Nikolaos Vlassis, Jaya Kawale  
US Patent. Filed: 11/12/2015.
- *Item Recommendation via Deep Collaborative Filtering*  
**Sheng Li**, Jaya Kawale  
US Patent. Filed: 11/05/2015.
- *Temporal Dynamics in Display Advertising*  
Jaya Kawale, **Sheng Li**  
US Patent. Filed: 11/25/2014.

## TEACHING EXPERIENCE

- **EECE 5642 Data Visualization** Spring 2017  
Assistant Lecturer Northeastern University
- **EECE 7398 Human Centered Computing** Fall 2016  
Assistant Lecturer Northeastern University
- **EECE 5642 Data Visualization** Fall 2015  
Assistant Lecturer Northeastern University
- **EECE 5698 Found of Visualization** Fall 2014  
Assistant Lecturer Northeastern University
- **IEEE Student Chapter Survey Course: Introduction to Machine Learning** 2014  
Instructor Northeastern University

## ACADEMIC TALKS

- ◇ **Invited Talks**
- *Learning Robust Representations for Data Analytics*  
ECE Seminar, University of Miami, FL 2017  
CIS Seminar, Temple University, PA 2016  
Yahoo!-DAIS Seminar, University of Illinois at Urbana-Champaign, IL 2016  
CS Seminar, University of Minnesota Twin Cities, MN 2016
- *Robust Representations for Data Analytics and Knowledge Inference*  
Adobe Research, San Jose, CA 2016
- *Low-Rank and Sparse Modeling for Visual Analytics*  
IFP Seminar, University of Illinois at Urbana-Champaign, IL 2016
- *Temporal Subspace Clustering for Human Motion Segmentation*  
New England Computer Vision Workshop, UMass Amherst, MA 2015
- *Learning with Robust Data Representations: Methodologies and Applications*  
NEPSSS, Northeastern University, Boston, MA 2015
- *Rethinking Campaign: A Causal Inference Approach*  
Adobe Research, San Jose, CA 2015
- *Predicting User Behaviors with Collaborative Filtering*  
Adobe Research, San Jose, CA 2014
- *Low-Rank Balanced Graph for Semi-supervised Learning*  
CDSP Workshop, Northeastern University, Boston, MA 2014
- *Color Image Canonical Correlation Analysis for Face Recognition*  
Hohai University, Nanjing, China 2012
- *Divide-and-Conquer based Discriminant Analysis*  
Harbin Institute of Technology Shenzhen Graduate School, China 2011

**PROFESSIONAL ACTIVITIES** • **Associate Editor or Editorial Board Member**

- ◇ Neurocomputing 2017 -
- ◇ IET Image Processing 2017 -
- ◇ Neural Computing and Applications 2017 -
- ◇ SPIE Journal of Electronic Imaging 2018 -

• **Publicity Chair**

- ◇ IEEE 15th Int'l Conference on Machine Learning and Applications (**ICMLA**) 2016
- ◇ Workshop on Textual Customer Feedback Mining and Transfer Learning 2016  
in Conjunction with IEEE International Conference on Big Data (**BigData**)
- ◇ IEEE 6th Int'l Workshop on Analysis and Modeling of Face and Gestures 2015  
in Conjunction with IEEE Conf. on Computer Vision and Pattern Recognition (**CVPR**)

• **Senior Program Committee**

- ◇ AAAI Conference on Artificial Intelligence (**AAAI**) 2019
- ◇ IEEE Visual Communications and Image Processing Conference (**VCIP**) 2017

• **Program Committee**

- ◇ The Annual Conference on Neural Information Processing Systems (**NIPS**) 2018
- ◇ International Joint Conference on Artificial Intelligence (**IJCAI**) 2015 - 2018
- ◇ AAAI Conference on Artificial Intelligence (**AAAI**) 2017 - 2018
- ◇ ACM SIGKDD Conf. on Knowledge Discovery and Data Mining (**KDD**) 2018
- ◇ ACM International Conference on Multimedia (**MM**) 2018
- ◇ IEEE International Conference on Big Data 2018
- ◇ Pacific-Asia Conf. on Knowledge Discovery and Data Mining (**PAKDD**) 2017 - 2018
- ◇ International Conference Data Science and Advanced Analytics (**DSAA**) 2017
- ◇ IEEE International Conference on Automatic Face and Gesture Recognition (**FG**) 2017
- ◇ Int'l Conference on Affective Computing and Intelligent Interaction (**ACII**) 2017

• **Journal Reviewer**

- ◇ IEEE Transactions on Neural Networks and Learning Systems (T-NNLS)
- ◇ IEEE Transactions on Knowledge and Data Engineering (T-KDE)
- ◇ IEEE Transactions on Image Processing (T-IP)
- ◇ IEEE Transactions on Cybernetics (T-CYB)
- ◇ IEEE Transactions on Multimedia (T-MM)
- ◇ IEEE Transactions on Big Data (T-BD)
- ◇ IEEE Transactions on Circuits System for Video Technology (T-CSVT)
- ◇ IEEE Transactions on Emerging Topics in Computational Intelligence (T-ETCI)
- ◇ ACM Computing Surveys
- ◇ ACM Transactions on Knowledge Discovery from Data (TKDD)
- ◇ PLoS ONE
- ◇ International Journal of Pattern Recognition and Artificial Intelligence (IJPRAI)
- ◇ Journal of Visual Communication and Image Representation (JVCIP)
- ◇ Pattern Recognition (PR)
- ◇ Neurocomputing
- ◇ Optical Engineering (OE)
- ◇ KSII Trans. Internet and Information Systems (IIS)



- ◇ Journal of Electronic Imaging (JEI)
- ◇ Neural Computing and Applications (NCAA)

- **Journal (External) Reviewer**

- ◇ Science
- ◇ Journal of Machine Learning Research
- ◇ IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)
- ◇ International Journal of Computer Vision (IJCV)

- **Conference (External) Reviewer**

- ◇ AAAI Conference on Artificial Intelligence (AAAI) 2013-2017
- ◇ IEEE International Conference on Data Mining (ICDM) 2013-2016
- ◇ SIAM International Conference on Data Mining (SDM) 2013-2017
- ◇ IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2013-2017
- ◇ European Conference on Computer Vision (ECCV) 2014-2016
- ◇ ACM Multimedia (MM) 2013-2016
- ◇ Asian Conference on Computer Vision (ACCV) 2016
- ◇ IEEE International Conference on Computer Vision (ICCV) 2013-2015
- ◇ IEEE International Conference on Big Data (BigData) 2013-2016
- ◇ IEEE In'l Conf. on Automatic Face and Gesture Recognition (FG) 2013-2017
- ◇ IEEE International Conference on Multimedia & Expo 2015
- ◇ Asian Conference on Pattern Recognition (ACPR) 2015
- ◇ IEEE Int'l Conference on Machine Learning and Applications (ICMLA) 2015
- ◇ British Machine Vision Conference (BMVC) 2013-2014
- ◇ IEEE Int'l Conf. on Acoustics, Speech, and Signal Processing (ICASSP) 2013-2014
- ◇ IEEE International Conference on Image Processing (ICIP) 2009-2011

**PROFESSIONAL ASSOCIATIONS**

- Association for Computing Machinery (ACM)
  - ◇ Special Interest Group on Knowledge Discovery and Data Mining (SIGKDD)
  - ◇ Special Interest Group on Information Retrieval (SIGIR)
- Institute of Electrical and Electronics Engineers (IEEE)
- Society for Industrial and Applied Mathematics (SIAM)