

Hongfu Liu

Michtom School of Computer Science
Volen Center for Complex Systems 136
Brandeis University, 415 South St, Waltham, MA 02453

Tel: +1 (731)-726-2735
E-mail: hongfuliu@brandeis.edu
Homepage: hongfuliu.com

POSITION	Brandeis University Assistant Professor in Michtom School of Computer Science	Waltham, MA, USA 07/2018 - now
EDUCATION	Northeastern University Ph.D. in Computer Engineering <i>Advisor:</i> Professor Yun Raymond Fu	Boston, MA, USA 09/2014 - 04/2018
	Beihang University M.Eng. in Management Science and Engineering <i>Advisor:</i> Professor Junjie Wu	Beijing, China 09/2011 - 06/2014
	Beihang University B.Eng. in Information Management and Information System	Beijing, China 09/2007 - 06/2011
	Beihang University B.S. in Applied Mathematics	Beijing, China 09/2007 - 06/2011
	Beihang University B.A. in Law	Beijing, China 09/2007 - 06/2011
RESEARCH INTERESTS	<ul style="list-style-type: none">• Data-centric Learning: model interpretation, subset training set selection, data generation, noisy label detection, active learning• Cluster Analysis: consensus clustering, constrained clustering, balanced clustering, multi-view clustering, interpretable clustering, big data clustering, fair clustering• Transfer Learning: heterogenous domain adaptation, knowledge visualization, visual semantic learning, label distribution drift• Fairness Learning: fairness enhancement, antidote data generation, utility-fairness trade off	
INDUSTRY EXPERIENCE	<ul style="list-style-type: none">• Microsoft Research Asia Data Scientist Intern, <i>Mentor:</i> Dr. Lintao Zhang & Dr. Qi Chen Project: Fast Clustering with Flexible Balance Constraints• Adobe Research Data Scientist Intern, <i>Mentor:</i> Dr. Nikos Vlassis Project: Greedy K-means-based Consensus Clustering for Customer Segmentation	Beijing, China 06/2017 - 08/2017 San Jose, CA 05/2016 - 07/2016
TEACHING EXPERIENCE	<ul style="list-style-type: none">• INSTRUCTOR<ul style="list-style-type: none">◇ <i>Computer Vision, Undergraduate & Graduate</i>, Spring 2021, Spring 2023◇ <i>Scientific Data Processing in MATLAB, Undergraduate</i>, Spring 2023◇ <i>Recommendation Systems, Graduate</i>, Fall 2022◇ <i>Unsupervised Learning and Data Mining, Graduate</i>, Fall 2018, Spring 2020/2022◇ <i>Data Structure, Undergraduate</i>, Fall 2019◇ <i>Introduction to Big Data, Undergraduate & Graduate</i>, Spring 2019, Fall 2020◇ <i>Introduction to E-Commerce, Undergraduate</i>, Fall 2013◇ <i>Operation Research, Junior College Student</i>, Fall 2011	
TUTORIAL	<ol style="list-style-type: none">1. Yi Fang, Hongfu Liu, Zhiqiang Tao and Mikhail Yurochkin. Fairness of Machine Learning in Search Engines. <i>ACM International Conference on Information & Knowledge Management (CIKM)</i>, 2022.2. Zhengming Ding, Hongfu Liu and Handong Zhao. Deep Multi-view Visual Data Analytics. <i>AAAI Conference on Artificial Intelligence (AAAI)</i>, 2019.	

• JOURNAL PAPERS

◇ 4 **TPAMI**, 5 **TKDE**, 1 **DMKD**, 2 **TKDD**, 1 **BMC**, 1 **TFS**, 2 **TIP**, 1 **TNNLS**

1. Han Yue, Jundong Li, and **Hongfu Liu**. Second-Order Unsupervised Feature Selection via Knowledge Contrastive Distillation. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2023.
2. **Hongfu Liu**, Junxiang Chen, Jennifer Dy and Yun Fu. Transforming Complex Problems into K-means Solutions. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI-Survey)*, 2023.
3. Han Yue, Pengyu Hong and **Hongfu Liu**. Graph-Graph Similarity Network. *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2022.
4. Mingyu Wan*, Han Yue*, Jaime Notarangelo, **Hongfu Liu** and Fanglin Che. Deep Learning Assisted Investigation of Electric Field-Dipole Effects on Catalytic Ammonia Synthesis. *Journal of the American Chemical Society Au (JACS Au)*, 2022.
5. Wenguang Wang, Wenhong Wang and **Hongfu Liu**. Correlation Guided Ensemble Clustering for Hyperspectral Band Selection. *Remote Sensing (RS)*, 2022.
6. Zihao Wang, Kun Li, Steve Xia and **Hongfu Liu**. Economic Recession Prediction Using Deep Neural Network. *The Journal of Financial Data Science (JFDS)*, 2021.
7. Han Yue, **Hongfu Liu**, and Jian Chen. A Gospel for MOBA Game: Ranking-Preserved Hero Change Prediction in Dota 2. *IEEE Transactions on Games (TG)*, 2021.
8. Kai Li, **Hongfu Liu**, Yulun Zhang, Kunpeng Li and Yun Fu. Self-guided Deep Multi-view Subspace Clustering via Consensus Affinity Regularization. *IEEE Transactions on Cybernetics (TC)*, 2021.
9. Hangyu Du, Feng Chen (Co-first author), **Hongfu Liu** and Pengyu Hong. Network-based Virus-Host Interaction Prediction with Application to SARS-CoV-2. *Patterns*, 2021.
10. Xiaochen Lv, Wenhong Wang and **Hongfu Liu**. Cluster-Wise Weighted NMF for Hyperspectral Images Unmixing with Imbalanced Data. *Remote Sensing (RS)*, 2021.
11. Jun Li, **Hongfu Liu**, Zhiqiang Tao, Handong Zhao and Yun Fu. Learnable Subspace Clustering. *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2020.
12. Wenhong Wang and **Hongfu Liu**. Deep Nonnegative Dictionary Factorization for Hyperspectral Unmixing. *Remote Sensing (RS)*, 2020.
13. Wenhong Wang, Yuntao Qian and **Hongfu Liu**. Multiple Clustering Guided Non-negative Matrix Factorization for Hyperspectral Unmixing. *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing (JSTARS)*, 2020.
14. Xue Li, **Hongfu Liu** and Bin Zhu. Evolutionary Preference Analysis with Online Consumer Ratings. *Information Science (IS)*, 2020.
15. **Hongfu Liu**, Jun Li, Yue Wu and Yun Fu. Clustering with Outlier Removal. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2019.
16. Zhiqiang Tao, **Hongfu Liu**, Huazhu Fu and Yun Fu. Multi-View Saliency-Guided Clustering for Image Cosegmentation. *IEEE Transactions on Image Processing (TIP)*, 2019.
17. Weiren Yu, Zhengming Ding, Chunming Hu and **Hongfu Liu**. Knowledge Reused Outlier Detection. *IEEE Access*, 2019.
18. Zhiqiang Tao, **Hongfu Liu**, Sheng Li, Zhengming Ding and Yun Fu. Marginalized Multi-View Ensemble Clustering. *IEEE Transactions on Neural Networks and Learning Systems (TNNLS)*, 2019.

19. Deqing Wang, Chenwei Lu, Junjie Wu, **Hongfu Liu**, Wenjie Zhang and Fuzhen Zhuang. Softly Associative Transfer Learning for Cross-domain Classification. *IEEE Transactions on Cybernetics (TC)*, 2019.
20. **Hongfu Liu**, Ming Shao and Yun Fu. Feature Selection with Unsupervised Consensus Guidance. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2018.
21. Zhiqiang Tao, **Hongfu Liu**, Sheng Li, Zhengming Ding and Yun Fu. Robust Spectral Ensemble Clustering via Rank Minimization. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 2018.
22. Yue Wu, **Hongfu Liu**, Jun Li and Yun Fu. Improving Face Representation Learning with Center Invariant Loss. *Image and Vision Computing (IVC)*, 2018.
23. **Hongfu Liu**, Ming Shao, Zhengming Ding and Yun Fu. Structure-Preserved Unsupervised Domain Adaptation. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2018.
24. Joseph Robinson, Ming Shao, Yue Wu, **Hongfu Liu**, Timothy Gillis and Yun Fu. Visual Kinship Recognition of Families in the Wild. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2018.
25. **Hongfu Liu** and Yun Fu. Consensus Guided Multi-View Clustering. *ACM Transactions on Knowledge Discovery from Data (TKDD)*, 2018.
26. Xue Li and **Hongfu Liu**. Greedy Optimization for K-means-based Consensus Clustering. *Tsinghua Science and Technology (TST)*, 2018.
27. **Hongfu Liu**, Zhiqiang Tao and Yun Fu. Partition Level Constrained Clustering. *IEEE Transactions on Pattern Analysis and Machine Intelligence (TPAMI)*, 2017.
28. **Hongfu Liu**, Ming Shao, Sheng Li and Yun Fu. Infinite Ensemble Clustering. *Data Mining and Knowledge Discovery (DMKD)*, 2017.
29. **Hongfu Liu**, Junjie Wu, Tongliang Liu, Dacheng Tao and Yun Fu. Spectral Ensemble Clustering: Theoretical and Practical Evidence. *IEEE Transactions on Knowledge and Data Engineering (TKDE)*, 2017.
30. **Hongfu Liu**, Rui Zhao, Hongsheng Fang, Feixiong Chen, Yun Fu and Yuyang Liu. Entropy-based Consensus Clustering for Patient Stratification. *Bioinformatics (BMC)*, 2017.
31. Handong Zhao, **Hongfu Liu**, Zhengming Ding and Yun Fu. Consensus Regularized Multi-View Outlier Detection. *IEEE Transactions on Image Processing (TIP)*, 2017.
32. Junjie Wu, Ziang Wu, Jie Cao, **Hongfu Liu**, Guoqing Chen and Yanchuan Zhang. Fuzzy Consensus Clustering with Applications on Big Data. *IEEE Transactions on Fuzzy Systems (TFS)*, 2017.
33. Junjie Wu, **Hongfu Liu**, Hui Xiong, Jie Cao and Jian Chen. K-means-based Consensus Clustering: A Unified View. *IEEE Transactions on Knowledge And Data Engineering (TKDE)*, 2015.
34. Junjie Wu, Shiwei Zhu, **Hongfu Liu** and Guoping Xia. Cosine Interesting Pattern Discovery. *Information Sciences (IS)*, 2012.

• CONFERENCE PAPERS

- ◇ 5 **KDD**, 4 **ICDM**, 1 **SDM**, 4 **ICLR**, 2 **NeurIPS**, 2 **ICML**, 4 **CVPR**, 1 **ICCV**, 5 **IJCAI**, 5 **AAAI**, 2 **CIKM**, 3 **IEEE BigData**, 1 **HPCC**, 1 **ICSSM Best Paper**
1. Anshuman Chhabra, Peizhao Li, Prasant Mohapatra, and **Hongfu Liu**. “What Data Benefits My Classifier?” Enhancing Model Performance and Interpretability through Influence-Based Data Selection. *In Proceedings of International Conference on Learning Representations (ICLR)*, 2024.
 2. Peizhao Li, Ethan Xia, and **Hongfu Liu**. Learning Antidote Data to Individual Unfairness. *In Proceedings of International Conference on Machine Learning (ICML)*, 2023.
 3. Anshuman Chhabra, Peizhao Li, Prasant Mohapatra, and **Hongfu Liu**. Robust Fair Clustering: A Novel Fairness Attack and Defense Framework. *In Proceedings of International Conference on Learning Representations (ICLR)*, 2023.

4. Zizhang Chen, Peizhao Li, **Hongfu Liu** and Pengyu Hong. Characterizing the Influence of Graph Elements. *In Proceedings of International Conference on Learning Representations (ICLR)*, 2023.
5. Han Yue, Chunhui Zhang, Chuxu Zhang and **Hongfu Liu**. Label-invariant Augmentation for Semi-Supervised Graph Classification. *In Proceedings of Neural Information Processing Systems (NeurIPS)*, 2022.
6. Han Yue, Steve Xia and **Hongfu Liu**. Multi-task Envisioning Transformer-based Autoencoder for Corporate Credit Rating Migration Early Prediction. *In Proceedings of ACM SIGKDD International Conference on Knowledge Discovery and Data mining (KDD)*, 2022.
7. Peizhao Li and **Hongfu Liu**. Achieving Fairness at No Utility Cost via Data Reweighting. *In Proceedings of International Conference on Machine Learning (ICML)*, 2022.
8. Peizhao Li, Pu Wang, Karl Berntorp and **Hongfu Liu**. Exploiting Temporal Relations on Radar Perception for Autonomous Driving. *In Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022.
9. Songyao Jiang, **Hongfu Liu**, Yue Wu and Yun Fu. Spatially Constrained GAN for Face and Fashion Synthesis. *In Proceedings of IEEE International Conference on Automatic Face and Gesture Recognition (FG)*, 2021.
10. Wenxiao Xiao, Zhengming Ding and **Hongfu Liu**. Implicit Semantic Response Alignment for Partial Domain Adaptation. *In Proceedings of Neural Information Processing Systems (NeurIPS)*, 2021.
11. Xiaoying Xing, **Hongfu Liu**, Chen Chen and Jundong Li. Fairness-Aware Unsupervised Feature Selection. *In Proceedings of ACM International Conference on Information and Knowledge Management (CIKM)*, 2021.
12. Taotao Jing, **Hongfu Liu** and Zhengming Ding. Towards Novel Target Discovery Through Open-Set Domain Adaptation. *In Proceedings of International Conference on Computer Vision (ICCV)*, 2021.
13. Hanyu Song, Peizhao Li and **Hongfu Liu**. Deep Clustering-based Fair Outlier Detection. *In Proceedings of ACM SIGKDD International Conference on Knowledge Discovery and Data mining (KDD)*, 2021.
14. Peizhao Li, Jiuxiang Gu, Jason Kuen, Vlad Morariu, Handong Zhao, Rajiv Jain, Varun Manjunatha and **Hongfu Liu**. SelfDoc: Self-Supervised Document Representation Learning. *In Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021.
15. Peizhao Li, Yifei Wang, Han Zhao, Pengyu Hong and **Hongfu Liu**. On Dyadic Fairness: Exploring and Mitigating Bias in Graph Connections. *In Proceedings of International Conference on Learning Representations (ICLR)*, 2021.
16. Peizhao Li, Han Zhao and **Hongfu Liu**. Deep Fair Clustering in Visual Learning. *In Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020.
17. Zhiqiang Tao, **Hongfu Liu**, Jun Li and Yun Fu. Adversarial Graph Embedding for Ensemble Clustering. *In Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, 2019.
18. Zhengming Ding and **Hongfu Liu**. Marginalized Latent Semantic Encoder for Zero-Shot Learning. *In Proceedings of IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2019.
19. Haitao Xiong, **Hongfu Liu**, Bineng Zhong and Yun Fu. Structured and Sparse Annotations for Image Emotion Distribution Learning. *In Proceedings of AAAI Conference on Artificial Intelligence (AAAI)*, 2019.
20. **Hongfu Liu**, Ziming Huang, Yun Fu, Qi Chen, Mingqin Li, and Lintao Zhang. Fast Clustering with Flexible Balance Constraints. *In Proceedings of IEEE International Conference on Big Data (IEEE BigData)*, 2018.
21. Jun Li, **Hongfu Liu** and Yun Fu. Predictive Coding Machine for Compressed Sensing and Image Denoising. *In Proceedings of AAAI Conference on Artificial Intelligence (AAAI)*, 2018.

22. Yue Wu, Zhengming Ding, **Hongfu Liu**, Joseph Robinson and Yun Fu. Kinship Classification through Latent Adaptive Subspace. *In Proceedings of IEEE Conference on Automatic Face and Gesture Recognition (FG)*, 2018.
23. Jun Li, **Hongfu Liu**, Handong Zhao, and Yun Fu. Projective Low-rank Subspace Clustering via Learning Deep Encoder. *In Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, 2017.
24. Zhiqiang Tao, **Hongfu Liu**, Sheng Li, Zhengming Ding and Yun Fu. From Ensemble Clustering to Multi-View Clustering. *In Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, 2017.
25. Zhiqiang Tao*, **Hongfu Liu***, Huazhu Fu and Yun Fu. Image Cosegmentation via Saliency-Guided Constraint Clustering with Cosine Similarity. *In Proceedings of AAAI Conference on Artificial Intelligence (AAAI)*, 2017. (* means equal contribution)
26. Zhiqiang Tao, **Hongfu Liu** and Yun Fu. Simultaneous Clustering and Ensemble. *In Proceedings of AAAI Conference on Artificial Intelligence (AAAI)*, 2017.
27. Sheng Li, **Hongfu Liu**, Zhiqiang Tao and Yun Fu. Multi-View Graph Learning with Adaptive Label Propagation. *In Proceedings of IEEE International Conference on Big Data (IEEE BigData)*, 2017.
28. **Hongfu Liu**, Ming Shao, Sheng Li and Yun Fu. Infinite Ensemble for Image Clustering. *In Proceedings of ACM SIGKDD international conference on Knowledge Discovery and Data mining (KDD)*, 2016.
29. **Hongfu Liu**, Haiyi Mao and Yun Fu. Robust Multi-View Feature Selection. *In Proceedings of IEEE International Conference on Data Mining (ICDM)*, 2016.
30. **Hongfu Liu**, Ming Shao and Yun Fu. Structure-Preserved Multi-Source Domain Adaptation. *In Proceedings of IEEE International Conference on Data Mining (ICDM)*, 2016.
31. **Hongfu Liu**, Ming Shao and Yun Fu. Consensus Guided Unsupervised Feature Selection. *In Proceedings of AAAI Conference on Artificial Intelligence (AAAI)*, 2016.
32. **Hongfu Liu**, Yuchao Zhang, Bo Deng and Yun Fu. Bi-sampling Ensemble Outlier Detection. *In Proceedings of IEEE International Conference on Big Data (IEEE BigData)*, 2016.
33. Zhiqiang Tao, **Hongfu Liu**, Sheng Li and Yun Fu. Robust Spectral Ensemble Clustering. *In Proceedings of ACM International Conference on Information and Knowledge Management (CIKM)*, 2016.
34. Handong Zhao, **Hongfu Liu** and Yun Fu. Incomplete Multi-modal Visual Data Grouping. *In Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, 2016.
35. **Hongfu Liu***, Tongliang Liu*, Junjie Wu, Dacheng Tao and Yun Fu. Spectral Ensemble Clustering. *In Proceedings of ACM SIGKDD international conference on Knowledge Discovery and Data mining (KDD)*, 2015. (* means equal contribution)
36. **Hongfu Liu** and Yun Fu. Clustering with Partition Level Side Information. *In Proceedings of IEEE International Conference on Data Mining (ICDM)*, 2015.
37. **Hongfu Liu**, Junjie Wu, Dacheng Tao, Yuchao Zhang and Yun Fu. DIAS: A Disassemble-Assemble Framework for Highly Sparse Text Clustering. *In Proceedings of SIAM International Conference on Data Mining (SDM)*, 2015.
38. **Hongfu Liu**, Cheng Gong and Junjie Wu. Consensus Clustering on big data. *In Proceedings of IEEE International Conference on Service Systems and Service Management (ICSSSM Best Paper)*, 2015.
39. **Hongfu Liu**, Yuchao Zhang, Hao Lin and Junjie Wu. How Many Zombies Around You. *In Proceedings of the IEEE International Conference on Data Mining (ICDM)*, 2013.
40. **Hongfu Liu**, Yuchao Zhang and Xue Li. Consensus Ranking From a Utility View. *In Proceedings of International Conference on Natural Computation (ICNC)*, 2013.
41. Junjie Wu, **Hongfu Liu**, Hui Xiong and Jie Cao. A Theoretic Framework of K-means-based Consensus Clustering. *In Proceedings of International Joint Conference on Artificial Intelligence (IJCAI)*, 2013.

42. Yaqiong Wang, **Hongfu Liu**, Hao Lin, Junjie Wu, Zhiang Wu and Jie Cao. SEA: A System for Event Analysis on Chinese Tweets. *In Proceedings of ACM SIGKDD International Conference on Knowledge Discovery and Data Mining (KDD)*, 2013.
43. Yuchao Zhang and **Hongfu Liu**. A Reliable QoE-aware Framework for Cloud Service Monitoring and Ranking. *In Proceedings of International Conference on Electrical and Information Technologies for Rail Transportation (EITRT)*, 2013.
44. Yuchao Zhang, **Hongfu Liu** and Bo Deng. SLA-Driven State Monitoring for Cloud Services. *In Proceedings of the 15th IEEE International Conference on High Performance Computing and Communications (HPCC)*, 2013.
45. Yuchao Zhang, **Hongfu Liu** and Bo Deng. Evolutionary Clustering with DBSCAN. *In Proceedings of International Conference on Natural Computation (ICNC)*, 2013.
46. Di Zhao, **Hongfu Liu**, Hongyi Li. A Method Based on Grey Correlation Clustering for Improving the Hierarchy of Analytic Hierarchy Process. *In Proceedings of IEEE/WIC/ACM International Conference on Web Intelligence and Intelligent Agent Technology (WI-IAT)*, 2010.

• WORKSHOP

1. Haiyi Mao, **Hongfu Liu**, Jason Xiaotian Dou, and Panayiotis V. Benos. Towards Cross-Modal Causal Structure and Representation Learning. *In Machine Learning for Health Workshop (ML4H)*, 2022.
2. Chunhui Zhang, **Hongfu Liu**, Jundong Li, Yanfang Ye and Chuxu Zhang. Contrastive Graph Few-Shot Learning. *In NeurIPS GLFrontiers Workshop (NeurIPS-W)*, 2022.
3. Peizhao Li, Xuchao Zhang, Ziyu Yao, Wei Cheng, Haifeng Chen and **Hongfu Liu**. Code Editing from Few Exemplars by Adaptive Multi-Extent Composition. *In International Conference on Learning Representations Deep Learning For Code Workshop (ICLR-W)*, 2022.
4. Yue Wu, **Hongfu Liu**, Yun Fu. Low-shot Face Recognition with Hybrid Classifiers. *In Proceedings of International Conference on Computer Vision Workshop (ICCV-W)*, 2017.
5. Yue Wu, **Hongfu Liu**, Jun Li and Yun Fu. Deep Face Recognition with Center Invariant Loss. *In Proceedings of ACM Multimedia Thematic Workshop (MM-W)*, 2017.

PATENTS

- Nikolaos Vlassis and **Hongfu Liu**. *Customer Segmentation Via Consensus Clustering* US Patent. Filed: 11/12/2016.
- Junjie Wu, **Hongfu Liu**, Hong Li and Xiaoting Han. *A Kind of Text Classification Method Based on Consensus Clustering* CN Patent. Filed: 10/07/2015.

FUNDING

- MERL Gift Grant 2022-2022
MERL, PI, \$5,000
- Graph-Learning-Assisted State and Event Tracking for Solar-Penetrated Power Grids with Heterogeneous Data Sources 2021-2024
Department of Energy, Co-PI, \$145,000
- Machine Learning for Credit Investigation 2019-2023
Guardian Life Insurance, PI, \$325,000
- Provost Research Grant 2019-2020
Brandeis, PI, \$23,739
- Adobe Gift Grant 2019-2020
Adobe, PI, \$20,000
- Theodore and Jane Norman Fund 2019
Brandeis, PI, \$3,278
- Teaching Innovation Grant 2019
Brandeis, PI, \$8,144

HONORS & AWARDS	• Notable Area Chair <i>International Conference on Learning Representations</i>	2023
	• Top Reviewer <i>Uncertainty in Artificial Intelligence</i>	2022
	• Global Top Young Chinese Scholars in AI (Top 25 in Data Mining Area) <i>Baidu Scholar</i>	2022
	• Highlighted Area Chair <i>International Conference on Learning Representations</i>	2022
	• INNS 2021 Aharon Katzir Young Investigator Award <i>Board of Governors of the International Neural Network Society</i>	2021
	• Best Student Paper <i>Automatic Face and Gesture Recognition</i>	2021
	• Outstanding Self-Financed Students Abroad <i>Chinese Government Award</i>	2018
	• First Place Award in MS-Celel-1M Grand Challenge <i>International Conference on Computer Vision</i>	2017

PROFESSIONAL ACTIVITIES	• Associate Editor ◊ IEEE Computational Intelligence Magazine (IEEE CIM)	
	• Area Chair ◊ International Conference on Machine Learning (ICML)	
	◊ Neural Information Processing Systems (NeurIPS)	
	◊ International Conference on Learning Representations (ICRL)	