

# CURRICULUM VITAE

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## EDUCATION

- Ph.D. in Electrical Engineering, University of Texas at Dallas, TX, 2016
- M.S. in Electrical Engineering, Mississippi State University, MS, 2012
- B.S. in Automation, Beijing Forestry University, China, 2009

## EXPERIENCE

- Assistant Professor at the Center for Research in Computer Vision, University of Central Florida, July 2021 – Present
- Assistant Professor at the Department of Electrical and Computer Engineering at University of North Carolina at Charlotte, August 2018 – June 2021
- Postdoc Research Associate at the Center for Research in Computer Vision at University of Central Florida, July 2016 – June 2018
- Research Assistant at the Embedded Machine Learning (EML) Laboratory at University of Texas at Dallas, August 2012 – June 2016
- Research and Teaching Assistant at the Department of Electrical and Computer Engineering at Mississippi State University, August 2009 – May 2012

## PUBLICATION

- Google Scholar profile:  
<https://scholar.google.com/citations?hl=en&user=TuEwcZ0AAAAJ>

## Book Chapters

1. Sijie Zhu, **Chen Chen**, Waqas Sultani, “Video Anomaly Detection for Smart Surveillance”, *Computer Vision: A Reference Guide*, 2020.
2. Waqas Sultani, Qazi Ammar Arshad, **Chen Chen**, “Action Recognition in Real-World Videos”, *Computer Vision: A Reference Guide*, 2020.
3. Ju Shen, Sen-ching Cheung, **Chen Chen**, Ruixu Liu. “Missing Depth Data In-painting”, In *Encyclopedia of Image Processing*, published by Taylor & Francis Group, 2018.

## Peer Reviewed Journals

1. Sumanta Bhattacharyya, Ju Shen, Stephen Welch, **Chen Chen**, “Efficient Unsupervised Monocular Depth Estimation Using Attention Guided Generative Adversarial Network”, *Journal of Real-Time Image Processing*, 2021.
2. Ruixu Liu, Ju Shen, He Wang, **Chen Chen**, Sen-ching Cheung, Vijayan Asari, “Enhanced 3D Human Pose Estimation from Videos by using Attention-Based Neural Network with Dilated Convolutions”, *International Journal of Computer Vision*, 2021. (IF = 5.698)
3. Chengli Peng, Jiayi Ma, **Chen Chen**, Xiaojie Guo, “Bilateral Attention Decoder: A Lightweight Decoder for Real-time Semantic Segmentation”, *Neural Networks*, 2021. (IF = 5.535)
4. Kui Jiang, Zhongyuan Wang, Peng Yi, **Chen Chen**, Zhen Han, Tao Lu, Baojin Huang, Junjun Jiang, “Decomposition Makes Better Rain Removal: An Improved Attention-guided Deraining Network”, *IEEE Transactions on Circuits and Systems for Video Technology*, 2021. (IF = 4.133)
5. Yu Shen, Sijie Zhu, **Chen Chen**, Qian Du, Liang Xiao, Jianyu Chen, Delu Pan, “Efficient Deep Learning of Non-local Features for Hyperspectral Image Classification”, *IEEE Transactions on Geoscience and Remote Sensing*, 2020. (IF = 5.855)
6. Jiayi Ma, Wei Yu, **Chen Chen**, Pengwei Liang, Xiaojie Guo, Junjun Jiang, “Pan-GAN: An Unsupervised Learning Method for Pan-sharpening using a Generative Adversarial Network”, *Information Fusion*, 2020. (IF = 13.669)
7. **Chen Chen**, Raymond Surette, Mubarak Shah, “Automated Monitoring for Security Camera Networks: Promise from Computer Vision Labs”, *Security Journal*, 2020. (IF = 0.838)
8. Yuhao Wang, **Chen Chen**, Meng Ding, Jianguyun Li, “Real-Time Dense Semantic Labeling with Dual-Path Framework for High-Resolution Remote Sensing Image”, *Remote Sensing*, 2019. (IF = 4.509)
9. Jiayi Ma, Pengwei Liang, Wei Yu, **Chen Chen**, Xiaojie Guo, Jia Wu, Junjun Jiang, “Infrared and Visible Image Fusion via Detail Preserving Adversarial Learning”, *Information Fusion*, 2019. (IF = 13.669)
10. Rui Ba, **Chen Chen**, Jiang Yuan, Weiguo Song, Siuming Lo, “SmokeNet: Satellite Smoke Scene Detection Using Convolutional Neural Network with Spatial and Channel-Wise Attention”, *Remote Sensing*, 2019. (IF = 4.509)
11. Ce Li, Baochang Zhang, **Chen Chen**, Qixiang Ye, Jungong Han, Rongrong Ji, “Deep Manifold Structure Transfer for Action Recognition”, *IEEE Transactions on Image Processing*, 2019. (IF = 9.34)

12. Xiao Wang, Chao Liang, **Chen Chen**, Jun Chen, Zheng Wang, Zhen Han, Chunxia Xiao, "S3D: Scalable Pedestrian Detection via Score Scale Surface Discrimination", IEEE Transactions on Circuits and Systems for Video Technology, 2019. (IF = 4.133)
13. Zengmin Xu, Ruimin Hu, Jun Chen, **Chen Chen**, Junjun Jiang, Jiaofen Li, Hongyang Li, "Semi-Supervised Discriminant Multi-Manifold Analysis for Action Recognition", IEEE Transactions on Neural Networks and Learning Systems, 2019. (IF = 8.793)
14. Junjun Jiang, Jiayi Ma, Zheng Wang, **Chen Chen**, and Xianming Liu, "Hyperspectral Image Classification in the Presence of Noisy Labels", IEEE Transactions on Geoscience and Remote Sensing, 2018. (IF = 5.855)
15. Shangzhen Luan, **Chen Chen**, Baochang Zhang, Jungong Han, Jianzhuang Liu, "Gabor Convolutional Networks", IEEE Transactions on Image Processing, 2018. (IF = 9.34)
16. Baochang Zhang, Jiaxin Gu, **Chen Chen**, Jungong Han, Xiangbo Su, Xianbin Cao, Jianzhuang Liu, "One-two-one Networks for Compression Artifacts Reduction in Remote Sensing", ISPRS Journal of Photogrammetry and Remote Sensing, 2018. (IF = 7.319)
17. Shilpa Suresh, Shyam Lal, **Chen Chen**, Turgay Celik, "Multispectral Satellite Image Denoising via Adaptive Cuckoo Search-Based Wiener Filter", IEEE Transactions on Geoscience and Remote Sensing, 2018. (IF = 5.855)
18. Junjun Jiang, Jiayi Ma, **Chen Chen**, Zhongyuan Wang, Lizhe Wang, "SuperPCA: A Superpixelwise Principal Component Analysis Approach for Unsupervised Feature Extraction of Hyperspectral Imagery", IEEE Transactions on Geoscience and Remote Sensing, 2018. (IF = 5.855)
19. **Chen Chen**, Mengyuan Liu, Hong Liu, Baochang Zhang, Jungong Han, Nasser Kehtarnavaz, "Multi-Temporal Depth Motion Maps-Based Local Binary Patterns for 3-D Human Action Recognition", IEEE Access, 2017. (IF = 3.745)
20. Mengyuan Liu, Hong Liu, **Chen Chen**, "Robust 3D Action Recognition through Sampling Local Appearances and Global Distributions", IEEE Transactions on Multimedia, 2017. (IF = 6.051)
21. Baochang Zhang, Shangzhen Luan, **Chen Chen**, Jungong Han, Wei Wang, Alessandro Perina, Ling Shao, "Latent Constrained Correlation Filter", IEEE Transactions on Image Processing, 2017. (IF = 9.34)
22. Zheng Wang, Ruimin Hu, **Chen Chen**, Yi Yu, Junjun Jiang, Chao Liang, Shin'ichi Satoh, "Person Re-identification via Discrepancy Matrix and Matrix Metric", IEEE Transactions on Cybernetics, 2017. (IF = 11.079)
23. Xiaoyong Bian, **Chen Chen**, Long Tian, Qian Du, "Fusing Local and Global Features for High-Resolution Scene Classification", IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017. (IF = 3.827)
24. Mengyuan Liu, Hong Liu, **Chen Chen**, "Enhanced Skeleton Visualization for View Invariant Human Action Recognition", Pattern Recognition, 2017. (IF = 7.196)
25. Baochang Zhang, Yun Yang, **Chen Chen**, Linlin Yang, Jungong Han, Ling Shao, "Action Recognition Using 3D histograms of Texture and A Multi-class Boosting Classifier", IEEE Transactions on Image Processing, 2017. (IF = 9.34)
26. Mengyuan Liu, Hong liu, **Chen Chen**, "3D Action Recognition Using Multi-scale Energy-based Global Ternary Image", IEEE Transactions on Circuits and Systems for Video Technology, 2017. (IF = 4.133)

27. Junjun Jiang, Xiang Ma, **Chen Chen**, Tao Lu, Zhongyuan Wang, Jiayi Ma, “Single Image Super-Resolution via Locally Regularized Anchored Neighborhood Regression and Nonlocal Means”, IEEE Transactions on Multimedia, 2017. (IF = 6.051)
28. Junjun Jiang, Jiayi Ma, **Chen Chen**, Xinwei Jiang, Zheng Wang, “Noise Robust Face Image Super-resolution through Smooth Sparse Representation”, IEEE Transactions on Cybernetics, 2017. (IF = 11.079)
29. Junjun Jiang, **Chen Chen**, Jiayi Ma, Zheng Wang, Zhongyuan Wang, Ruimin Hu, “SRLSP: A Face Image Super-Resolution Algorithm using Smooth Regression with Local Structure Prior”, IEEE Transactions on Multimedia, 2017. (IF = 6.051)
30. **Chen Chen**, Baochang Zhang, Zhenjie Hou, Junjun Jiang, Mengyuan Liu, Yun Yang, “Action Recognition from Depth Sequences Using Weighted Fusion of 2D and 3D Auto-Correlation of Gradients Features”, Multimedia Tools and Applications, 2017. (IF = 2.313)
31. **Chen Chen**, Roozbeh Jafari, Nasser Kehtarnavaz, “A Survey of Depth and Inertial Sensor Fusion for Human Action Recognition”, Multimedia Tools and Applications, 2017. (IF = 2.313)
32. Longhui Huang, **Chen Chen**, Wei Li, Qian Du, “Remote Sensing Image Scene Classification Using Multi-scale Completed Local Binary Patterns and Fisher Vectors”, Remote Sensing, 2016. (IF = 4.509)
33. Jinyi Zou, Wei Li, **Chen Chen**, Qian Du, “Scene Classification Using Local and Global Features with Collaborative Representation Fusion”, Information Sciences, 2016. (IF = 5.91)
34. **Chen Chen**, Roozbeh Jafari, Nasser Kehtarnavaz, “A Real-Time Human Action Recognition System Using Depth and Inertial Sensor Fusion”, IEEE Sensors Journal, 2016. (IF = 3.073)
35. **Chen Chen**, Baochang Zhang, Hongjun Su, Wei Li, Lu Wang, “Land-Use Scene Classification Using Multi-Scale Completed Local Binary Patterns”, Signal, Image and Video Processing, 2016. (IF = 1.794)
36. **Chen Chen**, Kui Liu, Nasser Kehtarnavaz, “Real-Time Human Action Recognition Based on Depth Motion Maps”, Journal of Real-Time Image Processing, 2016. (IF = 1.968)
37. Wei Li, **Chen Chen**, Hongjun Su, Qian Du, “Local Binary Patterns and Extreme Learning Machine for Hyperspectral Imagery Classification”, IEEE Transactions on Geoscience and Remote Sensing, 2015. (IF = 5.855)
38. **Chen Chen**, Roozbeh Jafari, Nasser Kehtarnavaz, “Improving Human Action Recognition Using Fusion of Depth Camera and Inertial Sensors”, IEEE Transactions on Human-Machine Systems, 2015. (IF = 3.374)
39. Kui Liu, **Chen Chen**, Roozbeh Jafari, Nasser Kehtarnavaz, “Fusion of Inertial and Depth Sensor Data for Robust Hand Gesture Recognition”, IEEE Sensors Journal, 2014. (IF = 3.073)
40. **Chen Chen**, Wei Li, Hongjun Su, Kui Liu, “Spectral-Spatial Classification of Hyperspectral Image based on Kernel Extreme Learning Machine”, Remote Sensing, 2014. (IF = 4.509)
41. **Chen Chen**, Wei Li, Eric W. Tramel, Minshan Cui, Saurabh Prasad, James E. Fowler, “Spectral-Spatial Preprocessing Using Multihypothesis Prediction for Noise-Robust Hyperspectral Image Classification”, IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2014. (IF = 3.827)

42. **Chen Chen**, Wei Li, Eric W. Tramel, James E. Fowler, “Reconstruction of Hyperspectral Imagery from Random Projections Using Multi-hypothesis Prediction”, IEEE Transactions on Geoscience and Remote Sensing, 2014. (IF = 5.855)

#### Peer Reviewed Conference Papers

1. Sijie Zhu, Taojiannan Yang, **Chen Chen**, “VIGOR: Cross-View Image Geo-localization beyond One-to-one Retrieval”, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021
2. Hui Lv, **Chen Chen**, Zhen Cui, Chunyan Xu, Yong Li, Jian Yang, “Learning Normal Dynamics in Videos with Meta Prototype Network”, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2021
3. Sijie Zhu, Taojiannan Yang, **Chen Chen**, “Revisiting Street-to-Aerial View Image Geo-localization and Orientation Estimation”, IEEE Winter Conference on Applications of Computer Vision (WACV), 2021.
4. Weiping Yu, Taojiannan Yang, **Chen Chen**, “Towards Resolving the Challenge of Long-tail Distribution in UAV Images for Object Detection”, IEEE Winter Conference on Applications of Computer Vision (WACV), 2021.
5. Taojiannan Yang, Sijie Zhu, **Chen Chen**, “GradAug: A New Regularization Method for Deep Neural Networks”, Neural Information Processing Systems (NeurIPS), 2020. (Acceptance Rate = 20% (1900/9454))
6. Taojiannan Yang, Sijie Zhu, **Chen Chen**, Yan Shen, Mi Zhang, Andrew Willis, “MutualNet: Adaptive ConvNet via Mutual Learning from Network Width and Resolution”, European Conference on Computer Vision (ECCV), 2020 (Oral) (Acceptance Rate = 2% (104/5205))
7. Pinyarash Pinyoanuntapong, Prabhu Janakaraj, Pu Wang, Minwoo Lee, **Chen Chen**, “FedAir: Towards Multi-hop Federated Learning Over-the-Air”, IEEE 21st International Workshop on Signal Processing Advances in Wireless Communications (SPAWC), 2020.
8. Li'an Zhuo, Baochang Zhang, Hanlin Chen, Linlin Yang, **Chen Chen**, Yanjun Zhu, David Doermann, “CP-NAS: Child-Parent Neural Architecture Search for Binary Neural Networks”, International Joint Conference on Artificial Intelligence (IJCAI), 2020 (Acceptance Rate = 12.6%)
9. Changlin Li, Taojiannan Yang, Sijie Zhu, **Chen Chen**, Shanyue Guan, “Density Map Guided Object Detection in Aerial Image”, IEEE Conference on Computer Vision and Pattern Recognition (CVPR) (EarthVision Workshop), 2020.
10. Ruixu Liu, Ju Shen, He Wang, **Chen Chen**, Sen-ching Cheung, Vijayan Asari, “Attention Mechanism Exploits Temporal Contexts: Real-time 3D Human Pose Reconstruction”, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020 (Oral) (Acceptance Rate = 5.7%)
11. Kui Jiang, Zhongyuan Wang, Peng Yi, **Chen Chen**, Baojin Huang, Yimin Luo, Jiayi Ma, Junjun Jiang, “Multi-Scale Progressive Fusion Network for Single Image Deraining”, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2020.
12. **Chen Chen**, Xiaopeng Liu, Meng Ding, Junfeng Zheng, Jiangyun Li, “3D Dilated Multi-Fiber Network for Real-time Brain Tumor Segmentation in MRI”, International Conference on Medical Image Computing and Computer Assisted Intervention (MICCAI), 2019.

13. Rui Hou, **Chen Chen**, Mubarak Shah, Rahul Sukthankar, “An Efficient 3D CNN for Action/Object Segmentation in Video”, British Machine Vision Conference (BMVC), 2019.
14. Bin Sun, **Chen Chen**, Yingying Zhu, Jianmin Jiang, “GEOCAPSNET: Ground to Aerial View Image Geo-localization using Capsule Network”, IEEE International Conference on Multimedia and Expo (ICME) 2019.
15. Mengyuan Liu, Fanyang Meng, **Chen Chen**, Songtao Wu, “Joint Dynamic Pose Image and Space Time Reversal for Human Action Recognition from Videos”, 33rd AAAI Conference on Artificial Intelligence (AAAI), 2019.
16. Li'an Zhuo, Baochang Zhang, **Chen Chen**, David Doermann, Jianzhuang Liu, Qixiang Ye, “Calibrated Stochastic Gradient Descent for Convolutional Neural Networks”, 33rd AAAI Conference on Artificial Intelligence (AAAI), 2019.
17. Chunyu Xie, Ce Li, Baochang Zhang, **Chen Chen**, Jungong Han, Changqing Zou, Jianzhuang Liu, “Memory Attention Networks for Skeleton-based Action Recognition”, International Joint Conference on Artificial Intelligence (IJCAI), 2018.
18. Waqas Sultani, **Chen Chen**, Mubarak Shah, “Real-world Anomaly Detection in Surveillance Videos”, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2018.
19. Rui Hou, **Chen Chen**, Mubarak Shah, “Tube Convolutional Neural Network (T-CNN) for Action Detection in Videos”, International Conference on Computer Vision (ICCV), 2017.
20. Yicong Tian, **Chen Chen**, Mubarak Shah, “Cross-View Image Matching for Geo-localization in Urban Environments”, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017.
21. Jie Qin, Li Liu, Ling Shao, Bingbing Ni, **Chen Chen**, Fumin Shen, Yunhong Wang, “Binary Coding for Partial Action Analysis with Limited Observation Ratios”, IEEE Conference on Computer Vision and Pattern Recognition (CVPR), 2017.
22. **Chen Chen**, Baochang Zhang, Alessio Del Bue, Vittorio Murino, “Manifold Constrained Low-Rank Decomposition”, International Conference on Computer Vision Workshop (ICCV-Workshop), 2017.
23. Neha Dawar, **Chen Chen**, Roozbeh Jafari, Nasser Kehtarnavaz, “Real-time Continuous Action Detection and Recognition using Depth Images and Inertial Signals”, IEEE International Symposium on Industrial Electronics, Edinburgh, United Kingdom, 2017.
24. **Chen Chen**, Huiyan Hao, Roozbeh Jafari, Nasser Kehtarnavaz, “Weighted Fusion of Depth and Inertial Data to Improve View Invariance for Real-time Human Action Recognition”, SPIE Conference on Real-Time Image and Video Processing, Anaheim, California, 2017.
25. **Chen Chen**, Mengyuan Liu, Baochang Zhang, Jungong Han, Junjun Jiang, Hong Liu, “3D Action Recognition Using Multi-temporal Depth Motion Maps and Fisher Vector”, International Joint Conference on Artificial Intelligence (IJCAI), 2016.
26. Mengyuan Liu, Hong Liu, **Chen Chen**, Maryam Najafian, “Energy-Based Global Ternary Image for Action Recognition Using Sole Depth Sequences”, IEEE International Conference on 3D Vision (3DV), 2016.
27. Suolan Liu, **Chen Chen**, Nasser Kehtarnavaz, “A Computationally Efficient Denoising and Hole-filling Method for Depth Image Enhancement”, SPIE Conference on Real-Time Image and Video Processing, Brussels, Belgium, 2016.

28. **Chen Chen**, Roozbeh Jafari, Nasser Kehtarnavaz, “Fusion of Depth, Skeleton, and Inertial Data for Human Action Recognition”, IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2016.
29. Junjun Jiang, **Chen Chen**, Xin Song, Zhihua Cai, “Hyperspectral Image Classification Using Set-to-Set Distance”, IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP), 2016.
30. **Chen Chen**, Zhenjie Hou, Baochang Zhang, Junjun Jiang, Yun Yang, “Gradient Local Auto-Correlations and Extreme Learning Machine for Depth-Based Activity Recognition”, International Symposium on Visual Computing (ISVC), 2015.
31. **Chen Chen**, Roozbeh Jafari, Nasser Kehtarnavaz, “UTD-MHAD: A Multimodal Dataset for Human Action Recognition Utilizing a Depth Camera and a Wearable Inertial Sensor”, IEEE International Conference on Image Processing (ICIP), 2015.
32. **Chen Chen**, Libing Zhou, Jianzhong Guo, Wei Li, Hongjun Su, Fangda Guo, “Gabor-Filtering-Based Completed Local Binary Patterns for Land-Use Scene Classification”, IEEE International Conference on Multimedia Big Data, 2015.
33. **Chen Chen**, Roozbeh Jafari, Nasser Kehtarnavaz, “Action Recognition from Depth Sequences Using Depth Motion Maps-based Local Binary Patterns”, IEEE Winter Conference on Applications of Computer Vision (WACV), 2015.
34. **Chen Chen**, Kui Liu, Roozbeh Jafari, Nasser Kehtarnavaz, “Home-based Senior Fitness Test Measurement System Using Collaborative Inertial and Depth Sensors”, IEEE Engineering in Medicine and Biology Society (EMBC), 2014.
35. **Chen Chen**, Roozbeh Jafari, Nasser Kehtarnavaz, “A Medication Adherence Monitoring System for Pill Bottles Based on a Wearable Inertial Sensor”, IEEE Engineering in Medicine and Biology Society (EMBC), 2014.
36. **Chen Chen**, James E. Fowler, “Single-Image Super-Resolution Using Multihypothesis Prediction”, IEEE Asilomar Conference on Signals, Systems, and Computers, 2012.
37. **Chen Chen**, Eric W. Tramel, and James E. Fowler, “Compressed-Sensing Recovery of Images and Video Using Multihypothesis Predictions”, IEEE Asilomar Conference on Signals, Systems, and Computers, 2011.

### Patents

1. Roozbeh Jafari, Nasser Kehtarnavaz, **Chen Chen**, “Wearable medication adherence monitoring”, US Patent # 9971874, issued May 2018.
2. Nasser Kehtarnavaz, Roozbeh Jafari, Kui Liu, **Chen Chen**, Jian Wu, “Fusion of inertial and depth sensors for movement measurements and recognition”, US Patent #10432842, issued October 2019.

### SERVICE

#### Professional Activities

- Area Chair of CVPR 2022
- Area Chair of ACM Multimedia 2019, 2020, 2021
- Area Chair of ICME 2021
- Area Chair of IEEE Winter Conference on Applications of Computer Vision, 2019

- Conference TPC member of IJCAI, ECCV, AAAI, CVPR, ICCV, MICCAI, BMVC

#### Editorial Services

- Associate Editor
  1. IEEE Journal on Miniaturization for Air and Space Systems (2020 - Present)
  2. Signal, Image and Video Processing (2017 - Present)
  3. Sensors Journal (2018 - Present)
  4. Journal of Real-Time Image Processing (2019 - Present)
- Guest Editor
  1. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing — Special Issue: Semantic Extraction and Fusion of Multimodal Remote Sensing Data: Algorithms and Applications
  2. IEEE Journal of Biomedical and Health Informatics — Special Issue: Emerging IoT-driven Smart Health: from Cloud to Edge
  3. Remote Sensing — Special Issue: Joint Artificial Intelligence and Computer Vision Applications in Remote Sensing
  4. Remote Sensing — Special Issue: Robust Multispectral/Hyperspectral Image Analysis and Classification
  5. Sensors — Special Issue: Sensors Signal Processing and Visual Computing
  6. Journal of Real-Time Image Processing — Special Issue: Advances in Real-Time Image Processing for Remote Sensing

#### HONORS AND AWARDS

- University of Texas at Dallas Graduate Research Travel Award, 2015
- David Daniel Fellowship Award (Best Doctoral Dissertation Award), University of Texas at Dallas, 2016
- ACM Multimedia Travel Grant, 2019
- UNC-Charlotte Faculty Research Award, 2019