

## Boqing Gong, Ph.D.

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CONTACT INFORMATION	Mailing address available upon request	☎ (407)801-3470 ✉ BoqingGo@outlook.com 🌐 <a href="http://boqinggong.info">http://boqinggong.info</a>
EMPLOYMENT	Research Scientist Google	03/2019 – Now
	Principal Researcher Tencent AI Lab	01/2018 – 03/2019
	Principal Investigator International Computer Science Institute University of California, Berkeley	01/2018 – Now
	Assistant Professor (tenure-track) Graduate Faculty Member Department of Computer Science University of Central Florida	08/2015 – 12/2017 08/2015 – Now
	Summer Research Assistant Department of Media Analytics NEC Laboratories America	06/2013 – 08/2013
	Research Assistant Visual Computing Group Microsoft Research Asia	01/2008 – 06/2008
EDUCATION	<b>University of Southern California</b> , Los Angeles, California Ph.D. in Computer Science Thesis: Kernel Methods for Unsupervised Domain Adaptation Thesis Committee: Fei Sha (supervisor), Gaurav Sukhatme, and Shrikanth Narayanan	08/2011 – 08/2015
	<b>University of Texas at Austin</b> Visiting Ph.D. Student in Computer Science Host Professor: Kristen Grauman	Summer, 2013
	<b>The Chinese University of Hong Kong</b> , Shatin, Hong Kong M.Phil. in Information Engineering Thesis: 3D Object Retrieval and Recognition Thesis Advisors: Xiaoou Tang (primary), Jianzhuang Liu, and Xiaogang Wang	08/2008 – 07/2010
	<b>University of Science and Technology of China</b> , Hefei, Anhui, China B.E. in Electronic Engineering and Information Science	09/2004 – 07/2008

**Overview.** A research scientist in machine learning and computer vision, I am interested in developing data- and label-efficient algorithms to solve large-scale visual recognition problems. My research has been focusing on domain adaptation, reinforcement learning, semi-supervised and self-supervised learning, few-shot and zero-shot learning, learning from the Web, and the visual analytics of objects, human activities, scenes, and their attributes using deep and generative models.

**The underlying theme of my research.** I appreciate interdisciplinary research — abstracting interesting questions and applying new findings from various real-world problems to develop improved machine learning algorithms, and drawing techniques from machine learning to investigate fundamental tasks in computer vision. I strive to understand the mathematical structure of the research questions in order to develop effective and efficient algorithmic solutions, with strong analytical properties and compelling practical performance.

**Recent work.** My recent work is powered by deep learning and generative models (e.g., sequential determinantal point process), as well as the confluence of the two (e.g., generative adversarial nets). I have been expanding the realm of domain adaptation to a variety of new applications in computer vision and reinforcement learning. Advances in domain adaptation will significantly increase our capability of deploying intelligent systems in challenging environments where uncertainty prevails.

From the applied research point of view, my recent projects include but are not limited to object recognition, semantic segmentation, vision and language, visual navigation, semantic planning, human activity recognition, image tagging, supervised video summarization, face detection and recognition, 3D object retrieval, text summarization, and sentiment analysis.

**Future work.** I expect to develop the next generation of statistical machine learning algorithms which are capable of handling the mismatches in data and not limited by the simple assumption that the training and test data are drawn i.i.d. from the same distribution. Towards this long-term goal, my current research agenda is to investigate label-efficient learning, robust training, and multi-modal learning of deep models.

## PUBLICATIONS

Statistics as of March 29th, 2019 according to Google Scholar:

Citations: 2405      h-index: 19      i10-index: 23      citations of (CVPR'12) [C4]: 922

\* [students I \(co-\)supervised](#).      = equal contribution among authors.

## INVITED BOOK CHAPTERS

- [B2] **B. Gong**, K. Grauman, and F. Sha. “Geodesic Flow Kernel and Landmarks: Kernel Methods for Unsupervised Domain Adaptation.” In *Domain Adaptation for Computer Vision Applications*, Springer Publishing, 2017.
- [B1] C. Gan\*, T. Yang, and **B. Gong**. “A Multi-Source Domain Generalization Approach to Visual Attribute Detection.” In *Domain Adaptation for Computer Vision Applications*, Springer Publishing, 2017.

## JOURNAL PUBLICATIONS

- [J4] Y. Zhang\*, P. David, F. Hassan, and **B. Gong**. “A Curriculum Domain Adaptation Approach to the Semantic Segmentation of Urban Scenes.” *IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)*, 2019.
- [J3] A. Mazaheri\*, **B. Gong**, and M. Shah. “Learning a Multi-Concept Video Retrieval Model with Multiple Latent Variables.” *ACM Transactions on Multimedia Computing, Communications, and Applications (TOMM)*, Vol. 14, Issue 2, May 2018.
- [J2] **B. Gong**, K. Grauman, and F. Sha. “Learning Kernels for Unsupervised Domain Adaptation with Applications to Visual Object Recognition.” *International Journal of Computer Vision (IJCV)*, Vol. 109, Issue 1-2, pp. 3-27, August 2014. [[Link](#)]
- [J1] **B. Gong**, J. Liu, X. Wang, and X. Tang. “Learning Semantic Signatures for 3D Object Retrieval.” *IEEE Transactions on Multimedia (T-MM)*, Vol. 5, Issue 2, pp. 369-377, February 2013.

## PEER-REVIEWED CONFERENCE PUBLICATIONS

- [C37] Z. Liu, Z. Miao, X. Zhan, J. Wang, **B. Gong**, and S. Yu. “Large-scale Long-Tailed Recognition in an Open World.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Long Beach, CA, June 2019. ([Oral](#))
- [C36] J. Shi, J. Xu, **B. Gong**, and C. Xu. “Not All Frames Are Equal: Weakly-Supervised Video Grounding with Contextual Similarity and Visual Clustering Losses.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Long Beach, CA, June 2019.
- [C35] X. Tang, **B. Gong**, Y. Yu, H. Yao, Y. Li, H. Xie, and X. Wang. “Joint Modeling of Dense and Incomplete Trajectories for Citywide Traffic Volume Inference.” *Proceedings of The Web Conference (WWW)*, San Francisco, CA, May 2019.
- [C34] Y. Zhang\*, H. Foroosh, P. David, and **B. Gong**. “CAMOU: Learning Physical Vehicle Camouflages to Adversarially Attack Detectors in the Wild.” *Proceedings of The International Conference on Learning Representations (ICLR)*, New Orleans, LA, May 2019.
- [C33] M. Fang, C. Zhou, B. Shi, **B. Gong**, J. Xu, and T. Zhang. “DHER: Hindsight Experience Replay for Dynamic Goals.” *Proceedings of The International Conference on Learning Representations (ICLR)*, New Orleans, LA, May 2019.

- [C32] D. Zhu, Z. Lin, X. Wang, **B. Gong**, and T. Yang. “A Robust Zero-Sum Game Framework for Pool-based Active Learning.” *Proceedings of The International Conference on Artificial Intelligence and Statistics (AISTATS)*, Naha, Japan, April 2019.
- [C31] L. Fan, W. Huang, C. Gan, J. Huang, and **B. Gong**. “Controllable Image-to-Video Translation: A Case Study on Facial Expression Generation.” *Proceedings of The Thirty-Third AAAI Conference on Artificial Intelligence (AAAI)*, Hawaii, January 2019. ([Oral](#))
- [C30] L. Li\* and **B. Gong**. “End-to-End Video Captioning with Multitask Reinforcement Learning.” *Proceedings of the IEEE Winter Conference on Applications of Computer Vision (WACV)*, Hawaii, January 2019.
- [C29] Z. He, **B. Gong**, and D. Fan. “Optimize Deep Convolutional Neural Network with Ternarized Weights and High Accuracy.” *Proceedings of the IEEE Winter Conference on Applications of Computer Vision (WACV)*, Hawaii, January 2019.
- [C28] H. Hu-, L. Chen-, **B. Gong**, and F. Sha. “Synthesize Policies for Transfer and Adaptation across Environments and Tasks.” *Proceedings of the Neural Information Processing Systems (NeurIPS)*, Montreal, Canada, December 2018. ([Spotlight](#))
- [C27] Y. Li\*, L. Wang, T. Yang, and **B. Gong**. “How Local is the Local Diversity? Reinforcing Sequential Determinantal Point Processes with Dynamic Ground Sets for Supervised Video Summarization.” *Proceedings of the European Conference on Computer Vision (ECCV)*, Munich, Germany, September 2018.
- [C26] A. Sharghi\*, A. Borji, C. Li, T. Yang, and **B. Gong**. “Improving Sequential Determinantal Point Processes for Supervised Video Summarization.” *Proceedings of the European Conference on Computer Vision (ECCV)*, Munich, Germany, September 2018.
- [C25] MA. Jamal\*, H. Li, and **B. Gong**. “Face Detector Adaptation without Negative Transfer or Catastrophic Forgetting.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Salt Lake City, Utah, June 2018.
- [C24] L. Fan\*-, W. Huang-, C. Gan, S. Ermon, **B. Gong**, and J. Huang. “End-to-End Learning of Motion Representation for Video Understanding.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Salt Lake City, Utah, June 2018. ([Spotlight](#))
- [C23] C. Gan\*, **B. Gong**, H. Su, and L. Guibas. “Geometry-Guided CNN for Self-Supervised Video Representation Learning.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Salt Lake City, Utah, June 2018.
- [C22] X. Wei\*-, **B. Gong**-, Z. Liu, W. Lu, and L. Wang. “Improving the Improved Training of Wasserstein GANs: A Consistency Term and Its Dual Effect.” *Proceedings of the International Conference on Learning Representations (ICLR)*, Vancouver Canada, April 2018.
- [C21] Y. Ding\*, L. Wang, D. Fan, and **B. Gong**. “A Semi-Supervised Two-Stage Approach to Learning from Noisy Labels.” *Proceedings of the IEEE Winter Conference on Applications of Computer Vision (WACV)*, Lake Tahoe, NV, March 2018. ([Spotlight](#))
- [C20] Z. Yang\*, **B. Gong**, and S. Narayanan. “Weighted Geodesic Flow Kernel for Interpersonal Mutual Influence Modeling and Emotion Recognition in Dyadic Interactions.” *Proceedings of the International Conference on Affective Computing and Intelligent Interaction (ACII)*, San Antonio, TX, October 2017. ([Oral](#))
- [C19] Y. Zhang\*, P. David, and **B. Gong**. “Curriculum Domain Adaptation for Semantic Segmentation of Urban Scenes.” *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Venice, Italy, October 2017.

- [C18] C. Gan\*, Y. Li\*, H. Li, C. Sun, and **B. Gong**. “VQS: Linking Segmentations to Questions and Answers for Supervised Attention in VQA and Question-Focused Semantic Segmentation.” *Proceedings of the IEEE International Conference on Computer Vision (ICCV)*, Venice, Italy, October 2017.
- [C17] A. Sharghi\*, J. Laurel\*, and **B. Gong**. “Query-Focused Video Summarization: Dataset, Evaluation, and A Memory Network Based Approach.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Honolulu, Hawaii, Jun. 2017.
- [C16] M. Kalayeh\*, **B. Gong**, and M. Shah. “Improving Facial Attribute Prediction using Semantic Segmentation.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Honolulu, Hawaii, Jun. 2017.
- [C15] Z. Li\*, **B. Gong**, and T. Yang. “Improved Dropout for Shallow and Deep Learning.” *Proceedings of the Neural Information Processing Systems (NIPS)*, Barcelona, Spain, Dec. 2016.
- [C14] C. Gan\*, C. Sun, L. Duan, and **B. Gong**. “Labeling-Free Video Recognition by Mutually Voting for Relevant Web Images and Web Video Frames.” *Proceedings of the European Conference on Computer Vision (ECCV)*, Amsterdam, Netherlands, Oct. 2016.
- [C13] A. Sharghi\*, **B. Gong**, and M. Shah. “Query-Focused Extractive Video Summarization.” *Proceedings of the European Conference on Computer Vision (ECCV)*, Amsterdam, Netherlands, Oct. 2016.
- [C12] W-L. Chao=, S. Changpinyo=, **B. Gong**, and F. Sha. “An Empirical Study and Analysis of Generalized Zero-Shot Learning for Object Recognition in the Wild.” *Proceedings of the European Conference on Computer Vision (ECCV)*, Amsterdam, Netherlands, Oct. 2016. ([Spotlight](#))
- [C11] Y. Zhang\*, **B. Gong**, and M. Shah. “Fast Zero-Shot Image Tagging.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, NV, Jun. 2016.
- [C10] C. Gan\*, T. Yang, and **B. Gong**. “Learning Attributes Equals Multi-Source Domain Generalization.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, NV, Jun. 2016. ([Spotlight](#))
- [C9] S. Changpinyo=, W. Chao=, **B. Gong**, and F. Sha. “Synthesized Classifiers for Zero-Shot Learning.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Las Vegas, NV, Jun. 2016. ([Oral](#))
- [C8] W. Chao=, **B. Gong**=, F. Sha, and K. Grauman. “Large-Margin Determinantal Point Processes.” *Proceedings of the Conference on Uncertainty in Artificial Intelligence (UAI)*, Amsterdam, Netherlands, July 2015. [[Link](#)]
- [C7] **B. Gong**=, W. Chao=, K. Grauman, and F. Sha. “Diverse Sequential Subset Selection for Supervised Video Summarization.” *Proceedings of the Neural Information Processing Systems (NIPS)*, Montreal, Canada, Dec. 2014.
- [C6] **B. Gong**, K. Grauman, and F. Sha. “Reshaping Visual Datasets for Domain Adaptation.” *Proceedings of the Neural Information Processing Systems (NIPS)*, Lake Tahoe, NV, Dec. 2013.
- [C5] **B. Gong**, K. Grauman, and F. Sha. “Connecting the Dots with Landmarks: Discriminatively Learning Domain-Invariant Features for Unsupervised Domain Adaptation.” *Proceedings of the International Conference on Machine Learning (ICML)*, Atlanta, GA, Jun. 2013. ([Oral](#))

- [C4] **B. Gong**, Y. Shi, F. Sha, and K. Grauman. “Geodesic Flow Kernel for Unsupervised Domain Adaptation.” *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, Providence, RI, Jun. 2012. ([Oral](#))
- [C3] **B. Gong**, J. Liu, X. Wang, and X. Tang. “3D Object Retrieval with Semantic Attributes.” *Proceedings of the 19th ACM international conference on Multimedia (ACM MM)*, Scottsdale, Arizona, Dec. 2011. ([demo](#))
- [C2] **B. Gong**, C. Xu, J. Liu, and X. Tang. “Boosting 3D Object Retrieval by Object Flexibility”. *Proceedings of the 17th ACM international conference on Multimedia (ACM MM)*, Beijing, China, Oct. 2009.
- [C1] **B. Gong**, Y. Wang, J. Liu, and X. Tang. “Automatic Facial Expression Recognition on a Single 3D Face by Exploring Shape Deformation”. *Proceedings of the 17th ACM international conference on Multimedia (ACM MM)*, Beijing, China, Oct. 2009.

#### SELECTED PEER-REVIEWED WORKSHOP PUBLICATIONS

- [W2] A. Mazaheri\*, B. Gong, and M. Shah. “Learning a Multi-Concept Video Retrieval Model with Multiple Latent Variables.” *The 12th IEEE International Workshop on Multimedia Information Processing and Retrieval*, Dec. 2016.
- [W1] **B. Gong**, F. Sha, and K. Grauman. “Overcoming Dataset Bias: An Unsupervised Domain Adaptation Approach.” *The First International Workshop on Large Scale Visual Recognition and Retrieval (BigVision)* at NIPS, Lake Tahoe, NV, Dec. 2012. ([Oral](#))

#### GRANTS

BIGDATA: IA: Distributed Semi-Supervised Training of Deep Models and Its Applications in Video Understanding

Funding agency: **NSF** IIS-1741431                      Role: Principal Investigator (PI)  
Amount: (\$662,431+\$42,500 AWS Credits)/3  
Duration: 09/2017 – 08/2020 (Transferred to ex-colleagues after joining Tencent)  
Significance: The first of its kind ever granted to the University of Central Florida

CRII: RI: Multi-Source Domain Generalization Approaches to Visual Attribute Detection

Funding agency: **NSF** IIS-1566511                      Role: Sole Principal Investigator (So-PI)  
Amount: \$175,000  
Duration: 05/2016 – 04/2018  
Significance: The first of its kind ever granted to the University of Central Florida

Multiple-Modal Summarization of Videos and Photo Albums with User Input

FutureWei Technologies Inc., So-PI, \$100,000 (Declined)                      07/2017

Face Detector Adaptation without Forgetting

Adobe Research, So-PI, \$10,000                      05/2017

User-Guided Visual Analytics

Adobe Research, So-PI, \$7,000                      10/2016

Collaborative Research: Florida-IT-Pathways to Success (Flit-Path)

NSF DUE-1643965, Co-PI                      10/2016 – 12/2017

TEACHING EXPERIENCES	CAP 4453: Robot Vision	
	Fall 2016, Number of students: 64, Student rating: 3.90/5 (Department median: 3.81)	
	Fall 2017 (fully online), Number of students: 30, <b>rating: 4.29/5</b> (Department median: 3.82)	
	CAP 6412: Advanced Computer Vision	
	Spring 2016, Number of students: 18, <b>rating: 4.10/5</b> (Department median: 3.85)	
INVITED TALKS	Curriculum Domain Adaptation	
	<b>IEEE BIGDATA</b> Workshop on Big Data Transfer Learning	12/10/2018
	The Multiple Shades of Dropout for Discriminative and Generative Deep Neural Networks	
	<b>INFORMS</b> Special Session on Stochastic Optimization Methods and Approximation Theory in Machine Learning	11/04/2018
	Domain Adaptation and Transfer: All You Need to Use Simulation “for Real”	
	<b>ECCV</b> Workshop on Visual Learning and Embodied Agents in Simulation Environments	09/09/2018
	Learning and Adapting from the Web for Visual Recognition	
	<b>ECCV</b> Workshop on Compact and Efficient Feature Representation and Learning in Computer Vision	09/09/2018
	<b>CVPR</b> Workshop on Visual Understanding by Learning from Web Data	06/18/2018
	Domain Adaptation for Robust Visual Recognition and Semantic Segmentation	
	Shenzhen Institutes of Advanced Technology, Chinese Academy of Sciences	04/02/2018
	Shenzhen University	03/26/2018
	International Computer Science Institute, UC Berkeley	12/08/2017
	Beijing University of Posts and Telecommunications	11/06/2017
	Department of Electrical Engineering, UC Santa Cruz	10/25/2017
	Google Research at Mountain View	09/20/2017
	Department of Media Analytics, NEC Laboratories America	05/08/2017
	NVIDIA Research	06/08/2017
	Sequential Determinantal Point Processes and Variations for Supervised Video Summarization	
	Department of Computer Science, Stanford University	03/20/2017
	Adobe Systems Inc.	03/30/2017
	Facebook Inc.	06/07/2017
	University of California at Berkeley	08/24/2017
	Domain Adaptation for Human Activity Detection, Recognition, and Summarization	
	Army Research Office / Information Science Institute Workshop on Multi-Modal Data Analysis for Human Activity Detection and Understanding	09/13/2016
	Query-Focused Extractive Video Summarization via Determinantal Point Processes	
	Electrical Engineering and Computer Sciences, Univ. California at Berkeley	09/21/2017
	Department of Computer Science, University of California at Irvine	07/08/2016
	Snapchat Inc.	08/18/2016

Kernel Methods for Unsupervised Domain Adaptation	
Information Science Institute, University of Southern California	12/11/2015
Department of Computer Science, Tulane University	04/23/2015
Department of Machine Learning, NEC Laboratories America	04/09/2015
Department of EECS, University of Central Florida	04/07/2015
School of Computing, Informatics, and Decision Systems Engineering, ASU	04/02/2015
IBM T.J. Watson Research Center (colloquium)	01/15/2015
<b>ECCV</b> Workshop on TASK-CV	09/12/2014

Reshaping Datasets for Unsupervised Domain Adaptation	
IEEE <b>ICDM</b> Workshop on Practical Transfer Learning	11/14/2015

Sequential Determinantal Point Process: Modeling the Diverse and Sequential Properties in Video Summarization	
Department of EECS, University of Central Florida	07/08/2015

Discriminative Kernel Learning for Unsupervised Domain Adaptation	
Machine Learning and Instrument Autonomy Group, JPL, NASA	01/09/2014

ACADEMIC &  
PROFESSIONAL  
SERVICES

[National Science Foundation \(NSF\) Panelist](#): three panels in 2016, one in 2017, one in 2019

[Tutorial chair](#) of IEEE Conference on Computer Vision and Pattern Recognition (CVPR) 2022

[Area chair / Senior program committee member of](#)

Neural Information Processing Systems (NeurIPS)	2019
IEEE International Conference on Computer Vision (ICCV)	2019
IEEE Winter Conference on Applications of Computer Vision (WACV)	2018 – 2019
International Conference on Machine Learning (ICML)	2019
International Conference on Artificial Intelligence and Statistics (AISTATS)	2019

Reviewer of

Neural Information Processing Systems (NeurIPS)	2014 –
International Conference on Machine Learning (ICML)	2015 –
IEEE Conference on Computer Vision and Pattern Recognition (CVPR)	2013 –
European Conference on Computer Vision (ECCV)	2014 –
IEEE International Conference on Computer Vision (ICCV)	2013 –
Conference on Artificial Intelligence and Statistics (AISTATS)	2017 –
International Conference on Learning Representations (ICLR)	2017 –
Asian Conference on Computer Vision (ACCV)	2016 –
The British Machine Vision Conference (BMVC)	2017 –
Journal of Machine Learning Research (JMLR)	
Springer International Journal of Computer Vision (IJCV)	
IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)	
IEEE Transactions on Neural Networks and Learning Systems (T-NNLS)	
IEEE Transactions on Image Processing (T-IP)	



IEEE Transactions on Multimedia (T-MM)  
Springer Machine Learning  
Artificial Intelligence  
IET Computer Vision  
Elsevier Waste Management  
ACM Transactions on Multimedia (ACM TOMM)

Program committee member of

Association for the Advancement of Artificial Intelligence Conference (AAAI), 2015, 2017  
International Joint Conference on Artificial Intelligence (IJCAI), 2015, 2016  
IEEE ICDM 2015 Workshop on Practical Transfer Learning  
ECCV 2016 Workshop on Transferring and Adapting Source Knowledge in Computer Vision

Mentor of the Ph.D. Forum of IEEE WACV 2018

DEPARTMENTAL SERVICES	Faculty Search Committee	2017 – 2018
	Awards Committee of the College of Engineering and Computer Science	2017 – 2018
	CRCV Research Associate Search Committee	2016
	Nielsen Fellowship Search Committee	2016

STUDENTS **Ph.D. students:**

Yang Zhang	08/2015 – 12/2017; co-supervised with Hassan Foroosh, 01/2018 – present
Aidean Sharghi	08/2015 – 12/2017; co-supervised with Ali Borji, 01/2018 – 07/2018
Abdullah Jamal	01/2016 – 12/2017; co-supervised with Liqiang Wang, 01/2018 – present
Yifan Ding	01/2016 – 12/2017; co-supervised with Liqiang Wang, 01/2018 – present
Yandong Li	08/2017 – 12/2017; co-supervised with Liqiang Wang, 01/2018 – present
Samer Iskander (teaching assistant, co-supervise with Dr. Niels Lobo)	01/2016 – 05/2016

Remote Ph.D. student at Tsinghua University, China:

Chuang Gan	08/2015 – 01/2018
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Master students:

Fareeha Irfan (Google Lime Scholarship and research/teaching assistant)	08/2015 – 08/2017
Suhas Nithyanand (directed research)	08/2016 – 12/2016
Rohan Singh Rajput (independent study)	08/2016 – 12/2016

Defense and candidacy committee member for

Kenneth Thompson (Ph.D., University of Central Florida)	2016
Uzair Tariq (Master, University of Central Florida)	2017
Hong Zhang (Ph.D., University of Central Florida)	2017
Dustin Morley (Ph.D., University of Central Florida)	2018
Maryam Jaber (Ph.D., University of Central Florida)	2018

Undergraduate students:

Adam Vest, Univ. of Louisville (NSF Research Experiences for Undergraduates (REU))	2017
Geraldine Versfeld, University of Central Florida (NSF REU)	2017
Truman Thames, Fayetteville State University UNC (NSF REU)	2017
Jacob Scott Laurel, University of Alabama at Birmingham (NSF REU)	2016
Kylie McCarty, University of Central Florida (NSF REU)	2016
Kevin Duarte, University of Central Florida (NSF REU)	2016
Michael Lopez (undergraduate research program)	Spring 2016
Adam Albright, University of Central Florida (senior design)	2016 – 2017
Qiang Li, University of Central Florida (senior design)	2016 – 2017
Kyle Ferguson, University of Central Florida (senior design)	2016 – 2017

SELECTED  
HONORS AND  
AWARDS

★ Tencent Senior VP's Star Award	2018
★ NSF Award: CRII #1566511	2016 – 2018
★ NSF Award: BIGDATA #1741431	2017 – 2020
★ IEEE CVPR 2017 Outstanding Reviewer	2017
★ Viterbi School of Engineering Doctoral Fellowship	2011 – 2015