

Experience

Current Appointment

Associate Professor	2015-present	Computer Science & Eng., University of South Florida
Visiting Associate Professor	2016-present	Mechanical Engineering, Stanford University

Previous Appointments

Assistant Professor	2009-2015	Computer Science & Eng., University of South Florida
Post-doc	June 2008-May 2009	School of Computing, University of Utah
Post-doc	Dec. 2007-May 2008	Mitsubishi Electric Research Labs (MERL), Boston, MA
Software Engineer	June 2000-July 2001	Atwell Cop., Tokyo, Japan

Education

Ph.D. Computer Science, 2007, University of Utah, Salt Lake City, UT, USA (Advisor: John Hollerbach)
M.S. Control Theory and Engineering, 2000, Dalian Univ. of Tech., China
B.S. Electrical Engineering, Minor in Mathematics, 1997, Dalian Univ. of Tech., China

Teaching

CIS6930 Neural Networks and Deep Learning, Spring 2016
COP3331: Object Oriented Design, Spring 2010-2015, Summer 2016
CAP4660: Intro to Robotics, Spring 2011- 2016
CAP4660: AI Robotics, Fall 2009
CIS6930/4930 Algorithms for Robotics, Fall 2010-2014
CIS6930 Robotics Seminar, Fall 2010, Spring 2011, Fall 2014, Fall 2015
Medical Robotics Colloquium, USF Medical School, Fall 2012
Ph.D. Advising:
Graduated: Yun Lin (2009-2014), Bingxiong Lin (2010-2015)
Current: Yongqiang Huang (2013), David Paulius (2014), Troi Williams (2015), Ahmad Babaeian Jelodar (2016), John Rippetoe (2013, co-advisor), Yueng De La Hoz (2014, co-advisor)

Grants

Current:

- PI, "EAGER: Characterizing Physical Interaction in Instrument Manipulations," NSF, \$299,887, 3/1/2016-2/28/2018, single PI.
- PI, "RI: Small: Functional Object-Oriented Network for Manipulation Learning," NSF, \$398,529, 8/15/2014-7/31/2018, single PI.
- CO-PI, "REU Site: REU Site on Ubiquitous Sensing," (International REU), NSF, \$439,215, 8/1/2016/7/31/2020, PI: Miguel Labrador.
- Co-PI, "REU Site: An REU Site on Ubiquitous Sensing," NSF, \$359,367, 1/1/2015-12/31/2017, PI: Miguel Labrador.
- Co-PI, "An Automated Pressure Ulcer Monitoring System to Improve Pressure Ulcer Healing Outcomes for Veterans with SCI," ARMY-CDMRP, Subcontract from VA, \$593,094, 9/30/2016-9/29/2019, PI: Matthew Peterson (VA)
- Co-PI, "Automated Neonatal Pain Assessment," USF Health, \$15,000, 7/1/2016-6/30/2017, PI: Terri Ashmeade (USF Health)

Completed:

- Senior Personnel, "MRI: Acquisition of a CAREN Virtual Reality System for Collaborative Research in Assistive and Rehabilitation Technologies," NSF, \$450,000.00, 9/1/2012-8/31/2016, PI: Rajiv Dubey
- PI, "CPS: Small: Virtually Transparent Epidermal Imagery," NSF, \$510,945.00, 9/15/2010-8/31/2015.

- PI, USF Proposal Enhancement Grant, \$25,000, 5/1/2013-4/30/2014.
- PI, "Robotics Modeling of Skilled Hand Tasks," USF Neuroscience Collaborative Grant, \$100,000, 10/1/2010-9/30/2012. (externally reviewed, 10% funding rate)

Products

Journal Papers:

1. Huang, Y, Bianchi, M, Liarakapis, M and **Sun, Y** (2016) Recent Data Sets on Object Manipulation: A Survey, *Big Data*, 4(4):197-216.
2. Lin, B., **Sun, Y.**, Qian, X., Goldgof, D., Gitlin, R., You, Y., (2016) Video Based 3D Reconstruction, Laparoscope, Localization, and Deformation Recovery for Abdominal Minimally Invasive Surgery: A Survey, *International Journal of Medical Robotics and Computer Assisted Surgery*, 12(2): 158-78.
3. Lin, Y. and **Sun, Y.**, (2015) Grasp Planning to Maximize Task Coverage, *Intl. Journal of Robotics Research*, 34(9): 1195-1210.
4. Lin, B., **Sun, Y.**, Sanchez, J., and Qian, X. (2015) Efficient Vessel Feature Detection for Endoscopic Image Analysis, *IEEE Transactions on Biomedical Engineering*, 62(4): 1141-1150.
5. Lin, Y., and **Sun, Y.** (2015) Robot Grasp Planning Based on Demonstrated Grasp Strategies, *Intl. Journal of Robotics Research*, 34(1): 26-42.
6. Coovert, M., Lee, T., Shindev, I., **Sun Y.** (2014) Spatial Augmented Reality as a Method for a Mobile Robot to Communicate Intended Movement, *Computers in Human Behavior*, 34:241-248.
7. **Sun, Y.**, Ren, S., Lin, Y., (2014) Object-Object Interaction Affordance Learning, *Robotics and Autonomous Systems*, 62(4): 487-496.
8. Anderson, A., Lin, B., **Sun Y.**, (2013) Virtually Transparent Epidermal Imagery (VTEI): On New Approaches to In Vivo Wireless High-Definition Video and Image Processing, *IEEE Transactions on Biomedical Circuits and Systems*, 7(6): 851-60.
9. Lin B., **Sun Y.**, Qian X., (2013) Dense Surface Reconstruction with Shadows in MIS, *IEEE Transactions on Biomedical Engineering*, 60(9): 2411-20.
10. Castro C.A., Smith S., Alqassis A., Ketterl T., **Sun Y.**, Ross S., Rosemurgy A., Savage P.P., and Gitlin, R.R., (2013) A Wireless Robot for Networked Laparoscopy, *IEEE Transactions on Biomedical Engineering*, vol. 60, No. 4, pp. 930 - 936.
11. Alqassis A., Ketterl T., Castro C., Gitlin R., Ross S., **Sun Y.**, and Rosemurgy A. (2012) MARVEL In Vivo Wireless Video System, *Journal of Technology and Innovation*, vol. 14, no. 3, pp. 329-340.
12. Agrawal A, **Sun Y**, Barnwell J, Raskar R (2010) Vision Guided Robot System for Picking Objects By Casting Shadows. *Intl. Journal of Robotics Research*, Vol. 29, No. 2-3, pp. 155-173.
13. **Sun Y**, Hollerbach JM, Mascaro S.A (2009) Finger force direction estimation with computer vision. *IEEE Transactions on Robotics*, Vol. 25, pp. 1356-1369.
14. **Sun Y**, Hollerbach JM, Mascaro S.A (2008) Predicting fingertip forces by imaging coloration changes in the fingernail and surrounding skin. *IEEE Transactions on Biomedical Engineering*, Vol. 55, pp. 2363-2371.
15. **Sun Y**, Jiang CL, Dong M (2001) A skew-correction algorithm for Chinese characters in electronic maps of GIS, *Journal of Dalian University of Technology*, Vol. 42, No. 1, pp. 118-121. (in Chinese)
16. **Sun Y**, Yin F (2001) Using Genetic Algorithms to Design Buffers in Production Lines, *Acta Automatica Sinica*, Vol. 27, No. 6, Nov. pp. 863-866. (in Chinese)
17. **Sun Y**, Jiang CL, Yin F (2000) A Method of Improving Image Processing Speed in Windows, *Microcomputer Applications*, Vol. 21, No. 4, July, pp. 211-214. (in Chinese)

Conference Papers:

18. Ghada Zamzmi, Dmitry Goldgof, Rangachar Kasturi, Terri Ashmeade, Chih-Yun Pai, **Yu Sun** (2016) An Approach for Automated Multimodal Analysis of Infants' Pain, 1-6, 23rd International Conference on Pattern Recognition (ICPR)
19. **Sun, Y.**, Yun Lin, and Yongqiang Huang (2016) Robotic Grasping for Instrument Manipulations, URAI, 1-3 (Invited)
20. Paulius, D. Huang, Y., Milton, R., Buchanan, W.D., Sam J., and **Sun, Y.** (2016) Functional Object-Oriented Network for Manipulation Learning, IROS, 3655-3662.
21. Huang, Y. and **Sun, Y.** (2015) Generating Manipulation Trajectories Using Motion Harmonics, IROS, 4949-4954.

22. Lin, Y. and **Sun, Y.** (2015) Task-Based Grasp Quality Measures for Grasp Synthesis, IROS, 485-490.
23. Alzamzmi, G., Goldgof, D., Kasturi, R., **Sun, Y.**, Asmeade T. and Ruiz, G. (2015) Pain Assessment in Infants: Towards Spotting the Pain Expression Based on the Facial Strain, 3rd International Workshop on Emotion Representation, Analysis and Synthesis in Continuous Time and Space, pp 1-4.
24. Cooke, C., Anderson, A. L., & **Sun, Y.** (2014) Instantaneous Frequency-division Multiplexing (IFDM): An Analog Multicarrier Approach to Wireless In Vivo Video, Proceedings of the International Conference on Biomedical Engineering and Systems, Prague, Czech Republic, pp 1-8.
25. Lin, Y., **Sun, Y.** (2014) Grasp Planning Based on Grasp Strategy Extraction from Demonstration, IROS, pp. 4458-4463.
26. Johnson, A. S., Sanchez, J., French, A., & **Sun, Y.** (2014) Unobtrusive Augmentation of Critical Hidden Structures in Laparoscopy, Medicine Meets Virtual Reality 21: NextMed/MMVR21, 185-191.
27. Lin, B., **Sun, Y.**, Sanchez, J., & Qian, X. (2014) Vesselness based feature extraction for endoscopic image analysis, IEEE 11th International Symposium on Biomedical Imaging (ISBI), 1295-1298.
28. Lin, Y., **Sun, Y.** (2013) Task-Oriented Grasp Planning Based on Disturbance Distribution, ISRR, pp 1-16.
29. Dai, W., **Sun, Y.**, Qian, X., (2013) Functional Analysis of Grasping Motion, IROS, pp. 3507-3513.
30. Bringes, C., Lin, Y., **Sun, Y.**, Alqasemi R. (2013) Determining the Benefit of Human Input in Human-in-the-Loop Robotic Systems, IEEE ROMAN 2013, pp. 210-215.
31. Lin Y., **Sun Y.** (2013) Grasp Mapping Using Locality Preserving Projections and KNN Regression, IEEE Intl. Conference on Robotics and Automation (ICRA), pp. 1068-1073.
32. Johnson, A. S., & **Sun, Y.** (2013). Exploration of spatial augmented reality on person. In IEEE Virtual Reality (VR), pp. 59-60.
33. Alqassis A., Castro C., Ketterl T., **Sun Y.**, Gitlin R., Smith S., and Savage P. (2013) Laparo-Endoscopic Single Site Surgery using MARVEL--- a Novel Wireless Robotic Video Platform, IEEE Workshop in Robot Vision (WoRV)/Winter Vision Meeting (WVM), pp. 1-6.
34. Ren S., **Sun Y.** (2013) Human-Object-Object-Interaction Affordance, IEEE Workshop in Robot Vision (WoRV)/Winter Vision Meeting (WVM), pp. 1-6.
35. Lin B., **Sun Y.**, Qian X., (2013) Thin Plate Spline Feature Point Matching for Organ Surfaces in Minimally Invasive Surgery Imaging, SPIE Medical Imaging, pp. 867112-8.
36. Sarah Tudor, Stephanie Carey, Sang-Hie Lee, **Yu Sun**, and Yun Lin (2013). "Comparison of Motion Data Analysis of a Healthy and an Injured Pianist." PAMA 2013 Symposium ~ Medical Problems of Performing Artists, pp.96-98.
37. Castro C.A., Smith S., Alqassis A., Ketterl T., **Sun Y**, Ross S., Rosemurgy A., Savage P.P., and Gitlin R.D., (2012) MARVEL: A Wireless Miniature Anchored Robotic Videoscope for Expedited Laparoscopy, IEEE Intl. Conference on Robotics and Automation (ICRA), pp. 2926-2931.
38. Pence W.G., Farello F., Alqasemi R., **Sun Y.**, and Dubey R. (2012) Visual Servoing Control of a 9-DoF WMRA to Perform ADL Tasks, IEEE Intl. Conference on Robotics and Automation (ICRA), pp. 916-922.
39. Lin Y., Ren S., Clevenger M., and **Sun Y.** (2012) Learning Grasping Force from Demonstration, IEEE Intl. Conference on Robotics and Automation (ICRA), pp. 1526-1531.
40. Shinde, I., **Sun, Y.**, Coovert, M., Pavlova, J., Lee, T. (2012) Exploration of Intention Expression for Robots, HRI, pp. 1-2, Boston, MA.
41. **Sun Y**, Anderson A, Castro C, Lin B, Gitlin R (2011) Virtually Transparent Epidermal Imagery for Laparo-Endoscopic Single-Site Surgery, International Conference of the IEEE Engineering in Medicine and Biology Society (EMBC'11), Boston, MA, USA, August 30 - September 3, 2011, 2107-2110.
42. Pence W, Farello F, **Sun Y**, Alqasemi R, and Dubey R (2011) Autonomous Mobility & Manipulation of a 9-DoF WMRA, RSS workshop on Mobile Manipulation, USC, 2011,1-4.
43. Neningen C, **Sun Y**, Lee SH, and Chodil J (2011) A Complete Motion and Music Capture System to Study Hand Injuries among Musicians, Emergency Management & Robotics for Hazardous Environments, Knoxville, TN, Aug. 7-10, 2011, 1-11.
44. Lee, Sang-Hie, **Yu Sun**, Jeffrey Chodil, BM, and Carlos Neningen, BS (2011). Abstract, "Pianists' Hand Tasks in Preparation for Robotics Modeling" in in "Meetings" Medical Problems of Performing Artists, Snowmass, Colorado, July 21-24, 2011. Twenty-ninth Annual Symposium of the Performing Arts Medicine Association. MPPA vol.26, No.3. 176-177. (Publisher selected.)
45. Lee, Sang-Hie, **Yu Sun**, Carlos Neningen, and Jeff Chodil (2011). "Robotic Modeling of Skilled Hand Tasks." Twenty-Ninth Annual Symposium on Medical Problems of Performing Artists, July 21-24. Snowmass, Colorado.

46. Lin Y, **Sun Y** (2011) 5-D Force Control System for Fingernail Imaging Calibration, IEEE Intl. Conference on Robotics and Automation (ICRA), pp. 1374-1379.
47. **Sun Y** (2011) Fingertip Force and Contact Position and Orientation Sensor, IEEE Intl. Conference on Robotics and Automation, pp. 1114-1119.
48. Grieve T, Lincoln L, **Sun Y**, Hollerbach JM, Mascaro SA (2010) 3D Force Prediction Using Fingernail Imaging with Automated Calibration, Proc Intl. Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems, pp. 113-120.
49. Grieve T, **Sun Y**, Hollerbach JM, Mascaro S.A (2009) 3-D Force control on the human fingerpad using a magnetic levitation device for fingernail imaging calibration. World Haptics Conference, pp. 411-416.
50. **Sun Y**, Hollerbach JM (2008) Observability index selection for robot calibration. IEEE Intl. Conference on Robotics and Automation (ICRA), pp. 831-836.
51. **Sun Y**, Hollerbach JM (2008) Active robot calibration algorithm. IEEE Intl. Conference on Robotics and Automation (ICRA), pp. 1276-1281.
52. **Sun Y**, Hollerbach JM, Mascaro SA (2007) Imaging the finger force direction. IEEE Computer Society Conference on Computer Vision and Pattern Recognition (CVPR), pp. 1-6.
53. **Sun Y**, Hollerbach JM, Mascaro SA (2007) Eigennail for finger force direction recognition. IEEE Intl. Conference on Robotics and Automation (ICRA), pp. 3251-3256.
54. **Sun Y**, Hollerbach JM, Mascaro SA (2007) Finger force direction recognition by principal component analysis of fingernail coloration pattern. World Haptics Conference, pp. 90 – 95.
55. **Sun Y**, Hollerbach JM, Mascaro SA (2006) Measuring finger forces by imaging the fingernail. Proc 14th Intl. Symposium on Haptic Interfaces for Virtual Environment and Teleoperator Systems, pp. 125-131.
56. **Sun Y**, Hollerbach JM, Mascaro S.A (2006) Dynamic features and prediction model for imaging fingernail to measure finger forces. IEEE Intl. Conference on Robotics and Automation (ICRA), pp. 2813-2818.

Open Access Papers:

57. Matteo Bianchi and Jeannette Bohg and **Yu Sun** (2016) Latest Datasets and Technologies Presented in the Workshop on Grasping and Manipulation Datasets, arXiv., pp 1-15
58. Huang, YQ, **Sun, Y.** (2016) Datasets on object manipulation and interaction: a survey, arXiv, pp 1-8.
59. Ghada Zamzmi, Dmitry Goldgof, Rangachar Kasturi, **Yu Sun**, and Terri Ashmeade (2016) Machine-based Multimodal Pain Assessment Tool for Infants: A Review, arXiv, pp 1-30.

Book Editing

Sun, Y., Behal, A., Chung, C.R. (editors), New Development in Robot Vision, ISBN 978-3-662-43859-6, Springer, 2015.

Sun, Y. (editor), Robotics Grasping and Manipulation Competition, Springer, 2017 (Expected in April 2017).

Book Chapters

1. Lin, Y. and **Sun, Y.**, 2016. Task-oriented grasp planning based on disturbance distribution. In Robotics Research (pp. 577-592). Springer International Publishing.
2. **Sun, Y.**, and Y. Lin. (2015) Modeling Paired Objects and Their Interaction. In New Development in Robot Vision, pp. 73-87. Springer Berlin Heidelberg.
3. Lin, B., Johnson, A., Qian, X., Sanchez, J., & **Sun, Y.** (2013). Simultaneous Tracking, 3D Reconstruction and Deforming Point Detection for Stereoscope Guided Surgery. In Augmented Reality Environments for Medical Imaging and Computer-Assisted Interventions, pp. 35-44. Springer Berlin Heidelberg.
4. Johnson, A. S., and **Sun, Y.** (2013) Spatial Augmented Reality on Person: Exploring the Most Personal Medium, In Virtual Augmented and Mixed Reality. Designing and Developing Augmented and Virtual Environments, pp. 169-174. Springer Berlin Heidelberg.
5. Grieve, T., **Sun Y.**, Hollerbach, J.M., and Mascaro, S.A. (2011) Force prediction using fingernail imaging: an overview, Informatics in Control, Automation, and Robotics, pp. 37-48, J. Andrade Cetto, J.-L. Ferrier and J. Filipe (eds), Springer.

Patents and Patents Pending

Patents:

1. **Y. Sun**, J.E. Sanchez, X. Qian, B. Lin, Systems and Methods for Providing Augmented Reality in Minimally Invasive Surgery, US patent # 9,646,423, Issued on May 9, 2017.
2. **Y. Sun**, J.E. Sanchez, X. Qian, B. Lin, Systems and Methods for Providing Augmented Reality in Minimally Invasive Surgery, US patent # 9,547,940, Issued on January 17, 2017.
3. **Y. Sun** and A. Johnson, Systems and Methods for Projecting Images onto an Object, US patent #9,520,072, Issued on December 13, 2016.
4. **Y. Sun**, Y. Lin, Systems and Methods for Planning a Robot Grasp Based upon a Demonstration Grasp, US patent # 9,321,176 Issued on April 26, 2016.
5. **Y. Sun**, Fingertip, Force, Location, and Orientation Sensor, US patent, US patent #8,724,861, Issued on May 13, 2014
6. **Y. Sun**, Richard D. Gitlin, Adam Anderson, Alexander Rosemurgy, and Sharona Ross, See-through Abdomen Display for Minimally Invasive Surgery, US patent #8,504,136, Issued on August 6, 2013.

Pending:

7. G. A. Alzarnzmi, D. Goldgof, **Y. Sun**, R. Kasturi, T. Ashmeade, Machine-Based Infants Pain Assessment Tool, US patent pending.
8. **Y. Sun**, Functional Object-Oriented Networks, US patent pending.
9. **Y. Sun**, Y. Lin, Generate Robot Grasp to Resist Interaction Disturbance, US patent application.
10. **Y. Sun**, Y. Huang, Robot Motion Generating, US patent pending.
11. **Y. Sun**, M. Coovert, and I. Shindeev, Techniques to Enable Robot Intention Expression, US patent pending.
12. **Y. Sun**, Systems and Methods for Generating a Dynamic Graphical User Interface, US patent pending.

Invited Talks (Since 2015)

- **Invited Talk**, Department of Computer Science and Engineering, Texas A&M University, 3/22/2017
- **Invited Talk**, Robotics Program, WPI, 2/24/2017
- **Invited Talk**, Department of Aeronautics and Astronautics, Stanford University, 2/22/2017
- **Invited Talk**, Shenyang Institute of Automation, Chinese Academy of Science, 1/17/2017
- **Invited Talk**, “Hand and Mind,” Singularity University, Sunnyvale, CA, 12/13/2016
- **Invited Talk**, “Ideomotor Learning for Robotic Manipulation,” Bay Area Robotics Symposium, Stanford, CA, 11/18/2016
- **Invited Talk**, “Robotic Grasping for Instrument Manipulations,” IROS Workshop on Closed-loop Grasping and Manipulation: Challenges and Progress, Daejeon, Korea, 10/14/2016
- **Invited Talk**, “Bring AI into Physical World through Robotic Hands,” Google Research, Mountain View, CA, 9/21/2016
- **Invited Talk**, 13th International Conference on Ubiquitous Robots and Ambient Intelligence (URAI 2016), Xi’an, China 8/20/2016
- **Keynote Talk**, “Renaissance of Robotic Grasping,” CCF Global Artificial Intelligence & Robotics Summit, Shenzhen, China, 8/13/2016
- **Invited Talk**, “Interactive Motion and Wrench in Instrument Manipulation.” IEEE ICRA Workshop on Grasping and Manipulation Datasets, Stockholm, Sweden, 5/20/2016
- **Invited Talk**, Shanghai Jiao Tong University, Shanghai, China, 10/23/2015
- **Invited Talk**, “Robots Perceive, Learn, and Adapt,” New York University, 3/25/2015
- **Keynote Talk**, “Five Most Important Trends in Robotics Research,” Link: Hardware Partners @ Silicon Valley, San Francisco, CA, 1/13/2015.

Service

Institutional Service

- Award Committee of Computer Science of Engineering Department (2014-current)
- College of Engineering Design-for-X Lab Committee (2013-current)
- Graduate Committee of Computer Science of Engineering Department (2009-current)

Professional Service

Contributor, Next Generation Robotics, CRA-CCC whitepaper, 2016

IEEE Robotics and Automation Society:

- Founding Co-Chair, Technical Committee on Robotic Hands, Grasping, and Manipulation (2014-)
- Co-Chair, Membership Services Committee (2013-)
- Board Member, Member Activity Board (2013-)

Editorial Board:

- Associate Editor, IEEE Transactions on Robotics (TRO) (2015-2018)
- Associate Editor, IEEE Robotics and Automation Magazine (RAM) (2012-2015)
- Associate Editor, Assembly Automation (2015-2016)
- Associate Editor, ICRA 2014, IROS 2015, ICRA 2016, IROS 2016

Conference and Workshop:

- Program Committee, RSS 2017
- Program Committee, 28th International IEEE Conference on Tools with Artificial Intelligence, 2016
- Competition Co-Chair, IROS 2016
- Award Committee Member, IROS Travel Grant 2016
- Chair, NSF Doctoral Consortium @ IROS 2016
- Chair, IROS Robotic Grasping and Manipulation Competition, 2016
- Organizing Co-Chair, ICRA Workshop on grasping, and manipulation datasets, 2016.
- Program Committee, ROBIO 2015
- Program Committee, IEEE MFI 2015
- Organizing Co-Chair, RSS Workshop on Bridging the Gap between Data-Driven and Analytical Physics-based Grasping and Manipulation, 2015
- Organizing Co-Chair, ICRA Workshop on Robotic Hands, Grasping, and Manipulation, 2015.
- Program Committee, RSS Workshop on grasping and manipulation 2014
- Organizing Committee, Invited Sessions Chair, International Conference on Robotics, Vision and Signal Processing (2013)
- Program Co-Chair, Workshop on Robot Vision 2013
- Organizing Committee, Invited Sessions Chair, International Conference on Robotics, Vision and Signal Processing (2011)
- Program Committee, ICNC 2013 Workshop on Cyber-Physical System
- Program Committee, IEEE International Conference on Multisensor Fusion and Integration for Intelligent Systems (MFI), Salt Lake City, UT, 2010
- Local Arrangements Chair, World Haptics Conference 2009

Grant Review Panel:

NSF 2011, 2015, 2016

Volunteer:

Volunteer staff for Making exhibitions, SIGGRAPH 2015
Student volunteer, ICML 2006
Student volunteer, CVPR 2006

Public Service

Teacher, USF STEM for Scholars (Summer program for bright, ambitious high school students) 2016
Judge, Florida VEX State Robotics Championship (K12) 2014
Judge, 56 Annual State Science and Engineering Fair of Florida (K12) 2011
Judge, Hillsborough County Regional Science Fair (K12) 2010