

# CURRICULUM VITAE

## Chao Zhou, PhD

### Education

- 09/2001 - Ph.D. in Physics, Aug. 2007; MSc, May 2003  
 08/2007 Thesis: *In-Vivo* Optical Imaging and Spectroscopy of Cerebral Hemodynamics  
 Advisor: Arjun G. Yodh  
 Department of Physics and Astronomy  
 University of Pennsylvania, Philadelphia, PA, USA
- 09/1997 - Bachelor of Science  
 06/2001 Department of Physics  
 Peking University, Beijing, P.R. China

### Positions and Employments

- 06/2012 - Assistant Professor  
 Department of Electrical and Computer Engineering and Bioengineering Program  
 Lehigh University, PA, USA
- 08/2007 - Postdoctoral Associate with Prof. James G. Fujimoto  
 05/2012 Department of Electrical Engineering and Computer Science and Research Laboratory of Electronics  
 Massachusetts Institute of Technology, Cambridge, MA, USA
- 05/2002 - Research Assistant with Prof. Arjun G. Yodh  
 08/2007 Department of Physics and Astronomy  
 University of Pennsylvania, Philadelphia, PA, USA

### Awards and Honors

- 2013 Recipient of the Eugene Mercy, Jr. President and Provost's Fund for Faculty Development, Lehigh University
- 2013 Finalist, the QED Proof-of-Concept Program, University City Science Center, Philadelphia, PA
- 2011 Pathway to Independence Award, National Institutes of Health/National Institute of Biomedical Imaging and Bioengineering (NIH/NIBIB)
- 2007 Young Bursary winner for Brain07 Conference, International Society for Cerebral Blood Flow and Metabolism (ISCBFM)
- 2007 Organization for Human Brain Mapping (OHBM) Travel Award
- 2004, 2006 GSAC Travel Award, University of Pennsylvania
- 2004 Student Travel grant for Optical Society of America topical meeting
- 2000 Third Class Prize in the 8th Challenge Cup of Extracurricular Scientific and Technological Works Competition, Peking University
- 1998 Young Eagle Scholarship for Outstanding Academic Performance in the Honor Science Program, Peking University
- 1998 PanDeng Scholarship for Undergraduate Research, Chinese Academy of Sciences and Peking University

- 1997 Outstanding Freshmen Scholarship, Peking University  
 1996 Second Class Prize in the 13th Chinese Physics Olympiad, Chinese Physical Society

### **Grant Support**

**“Integrated Optical Coherence Tomography and Microscopy for Molecular-Targeted Imaging,”**  
 06/2011 - 11/2014, National Institutes of Health/National Institute of Biomedical Imaging and Bioengineering (NIH/NIBIB, K99/R00 Pathway to Independence Award)

**Role: Principal Investigator**

### **Peer-reviewed Journal publications**

(In reverse chronological order; Total citations: >2100; h-index = 25 according to Google Scholar)

1. F. Li, Y. Song, A. Dryer, W. Cogguillo, Y. Berdichevsky and **C. Zhou**, Nondestructive evaluation of progressive neuronal changes in organotypic rat hippocampal slice cultures using ultrahigh-resolution optical coherence microscopy, *Neurophotonics*, 1(2), 025002, 2014.
2. A. Alex, M. Noti, E.D. Tait Wojno, D. Artis, and **C. Zhou**, Characterization of eosinophilic esophagitis murine models using optical coherence tomography, *Biomed. Opt. Express*, 5(2), 609-620, 2014.
3. F. Li, T. Xu, D.-H.T. Nguyen, X.L. Huang, C.S. Chen and **C. Zhou**, Label-free evaluation of angiogenic sprouting in micro-engineered devices using ultra-high resolution optical coherence microscopy, *J. Biomed. Opt.*, 19(1), 016006, 2014.
4. **C. Zhou**, A. Alex, J. Rasakanthan, and Y. Ma, Space-division multiplexing optical coherence tomography, *Opt. Express*, 21(16), 19219-19227, 2013.
5. M. Noti, E. D. Tait Wojno, B. S. Kim, M. C. Siracusa, P. R. Giacomini, M. G. Nair, A. J. Benitez, K. R. Ruymann, A. B. Muir, D. A. Hill, K. R. Chikwava, A. E. Moghaddam, Q. J. Sattentau, A. Alex, **C. Zhou**, J. H. Yearley, P. Menard-Katcher, M. Kubo, K. Obata-Ninomiya, H. Karasuyama, M. R. Comeau, T. Brown-Whitehorn, R. de Waal Malefyt, P. M. Sleiman, H. Hakonarson, A. Cianferoni, G. W. Falk, M.-L. Wang, J. M. Sperge, and D. Artis, Thymic stromal lymphopoietin-elicited basophil responses can mediate the pathogenesis of eosinophilic esophagitis. *Nat. Medicine*, 19(8), 1005-1013, 2013.
6. A. Li, O.O. Ahsen, J.J. Liu, C. Du, M.L. McKee, W. Wasco, C.H. Newton-Cheh, C.J. O'Donnell, J.G. Fujimoto, **C. Zhou**,\* and R.E. Tanzi,\* Silencing Of The Drosophila Ortholog Of SOX5 In Heart Leads To Cardiac Dysfunction As Detected By Optical Coherence Tomography. *Hum. Mol. Genet.*, 22(18):3798-806, 2013, (\*: Co-corresponding author).
7. R.C. Mesquita, M. Putt, M. Chandra, G. Yu, X. Xing, S.W. Han, G. Lech, Y. Shang, T. Durduran, **C. Zhou**, A.G. Yodh, and E.R. Mohler III, Diffuse optical characterization of an exercising patient group with peripheral artery disease, *J. Biomed. Opt.*, 18(5):057007, 2013.
8. T.-H. Tsai, B. Potsaid, Y.K. Tao, V. Jayaraman, J. Jiang, P.J. S. Heim, M.F. Kraus, **C. Zhou**, J. Hornegger, H. Mashimo, A.E. Cable, and J.G. Fujimoto, Ultrahigh speed endoscopic optical coherence tomography using micromotor imaging catheter and VCSEL technology, *Biomed. Opt. Express*, 4(7), 1119-1132, 2013.
9. T.-H. Tsai, **C. Zhou**, Y.K. Tao, H.-C. Lee, O.O. Ahsen, M. Figueiredo, T. Kirtane, D.C. Adler, J. Schmitt, Q. Huang, J.G. Fujimoto, and H. Mashimo. Structural Markers Observed with Endoscopic Three-dimensional Optical Coherence Tomography Correlating with Barrett's Esophagus Radiofrequency Ablation Treatment Response. *Gastrointest. Endosc.*, 76(6):1104-1112, 2012.
10. T.-H. Tsai, **C. Zhou**, H.-C. Lee, Y.K. Tao, O.O. Ahsen, M. Figueiredo, D.C. Adler, J. Schmitt, Q. Huang, J.G. Fujimoto, and H. Mashimo, Comparison of Tissue Architectural Changes between

- Radiofrequency Ablation and Cryospray Ablation in Barrett's Esophagus using Endoscopic Three-Dimensional Optical Coherence Tomography. *Gastroenterol. Res. Pract.*, 2012:684832, 2012.
11. **C. Zhou**, T.-H. Tsai, H.-C. Lee, T. Kirtane, M. Figueiredo, Y.K. Tao, O.O. Ahsen, D.C. Adler, J. Schmitt, Q. Huang, J.G. Fujimoto, and H. Mashimo. Characterization of Buried Glands Pre- and Post-Radiofrequency Ablation using Three-dimensional Optical Coherence Tomography. *Gastrointest. Endosc.*, 76(1):32-40, 2012.
  12. V. Sebastian, S.-K. Lee, **C. Zhou**, M.F. Kraus, J.G. Fujimoto, and K.F. Jensen. One-step Continuous Synthesis of Biocompatible Gold Nanorods for Optical Coherence Tomography. *Chem. Commun.*, 48:6654-6656, 2012.
  13. **C. Zhou**, T. Kirtane, T.-H. Tsai, H.-C. Lee, D.C. Adler, J.M. Schmitt, Q. Huang, J.G. Fujimoto, and H. Mashimo. Cervical Inlet Patch - Optical Coherence Tomography Imaging and Clinical Significance. *World J. Gastroenterol.*, 18(20):2502-2510, 2012.
  14. H.-C. Lee, **C. Zhou**, D.W. Cohen, Y. Wang, A. Mondelblatt, T.-H. Tsai, A.D. Aguirre, J.G. Fujimoto, and J.L. Connolly. Integrated Optical Coherence Tomography and Optical Coherence Microscopy Imaging of Human Renal Tissue. *J. Urology*, 187:691-699, 2012.
  15. **C. Zhou**, T. Kirtane, T.-H. Tsai, H.-C. Lee, D.C. Adler, J. Schmitt, Q. Huang, J.G. Fujimoto, and H. Mashimo. Three-Dimensional Endoscopic Optical Coherence Tomography Imaging of Cervical Inlet Patch. *Gastrointest. Endosc.*, 75(3), 675-677, 2012.
  16. Y. Chen, S.-W. Huang, **C. Zhou**, B. Potsaid, and J.G. Fujimoto. Improved Detection Sensitivity Line-Scanning Optical Coherence Microscopy (LS-OCM). *IEEE J. Sel. Top. Quantum Electron.*, 18(3): 1094-1099, 2012.
  17. R.C. Mesquita, T. Durduran, G.Q. Yu, E.M. Buckley, M.N. Kim, **C. Zhou**, R. Choe, U. Sunar, A.G. Yodh. Direct Measurement of Tissue Blood Flow and Metabolism with Diffuse Optics. *Phil. Trans. Royal Soc. A*, 369, 4390-4406, 2011.
  18. T.-H. Tsai, B. Potsaid, M. F. Kraus, **C. Zhou**, Y.K. Tao, J. Hornegger, and J.G. Fujimoto. Piezoelectric Transducer Based Miniature Catheter for Ultrahigh Speed Endoscopic Optical Coherence Tomography. *Biomed. Opt. Express*, 2, 2438-2448, 2011.
  19. A. Li, **C. Zhou**, J. Moore, P. Zhang, T.-H. Tsai, H.-C. Lee, D.M. Romano, M.L. McKee, D.A. Schoenfeld, M.J. Serra, K. Raygor, H.F. Cantiello, J.G. Fujimoto, and R.E. Tanzi. Changes in the Expression of the Alzheimer's Disease-Associated Presenilin Gene in Drosophila Heart Leads to Cardiac Dysfunction. *Curr. Alzheimer Res.*, 8(3):313-322, 2011.
  20. B. Garita, M.W. Jenkins, M. Han, **C. Zhou**, M. VanAuker, A.M. Rollins, M. Watanabe, J.G. Fujimoto, and K.K. Linask. Blood Flow Dynamics of One Cardiac Cycle and Relationship to Mechanotransduction and Trabeculation during Heart Looping. *Amer. J. Physiol. - Heart*, 300(3): H879-H891, 2011.
  21. **C. Zhou**, D.W. Cohen, Y. Wang, H.-C. Lee, A. Mondelblatt, T.-H. Tsai, A.D. Aguirre, J.G. Fujimoto, and J.L. Connolly. Integrated Optical Coherence Tomography and Microscopy for Ex Vivo Multiscale Evaluation of Human Breast Tissues. *Cancer Res.*, 70(24):10071-10079, 2010.
  22. **C. Zhou**, Y.H. Wang, A.D. Aguirre, T.-H. Tsai, J.L. Connolly, and J.G. Fujimoto. *Ex vivo* Imaging of Human Thyroid Pathology Using Integrated Optical Coherence Tomography (OCT) and Optical Coherence Microscopy (OCM). *J. Biomed. Opt.*, 15(1):016001, 2010.
  23. **C. Zhou**, T.-H. Tsai, D.C. Adler, H.-C. Lee, D.W. Cohen, A. Mondelblatt, Y.H. Wang, J.L. Connolly and J.G. Fujimoto. Photothermal Optical Coherence Tomography (OCT) in *ex vivo* Human Breast Tissues Using Gold Nanoshells. *Opt. Lett.*, 35(5):700-702, 2010.
  24. T. Durduran, **C. Zhou**, E.M. Buckley, M.N. Kim, G.Q. Yu, R. Choe, W.J. Gaynor, T.L. Spray, S.M. Durning, S.E. Mason, L.M. Montenegro, S.C. Nicolson, R.A. Zimmerman, M.E. Putt, J.J. Wang, J.H. Greenberg, J.A. Detre, A.G. Yodh, and D.J. Licht. Optical measurement of cerebral hemodynamics

- and oxygen metabolism in neonates with congenital heart defects. *J. Biomed. Opt.*, 15(3):037004, 2010.
25. D.C. Adler, **C. Zhou**, T.-H. Tsai, H.-C. Lee, L. Becker, J.M. Schmitt, Q. Huang, J.G. Fujimoto, and H. Mashimo. Biased assessment of 3D optical coherence tomography in a single post-radiofrequency ablation patient without histological correlation Reply. *Endoscopy*, 42(2):180-181, 2010.
  26. A.D. Aguirre, J. Sawinski, S.-W. Huang, **C. Zhou**, W. Denk, and J.G. Fujimoto. High Speed Optical Coherence Microscopy with Autofocus Adjustment and a Miniaturized Endoscopic Imaging Probe. *Opt. Express*, 18(5):4222-4239, 2010.
  27. B.L. Edlow, M.N. Kim, T. Durduran, **C. Zhou**, M.E. Putt, A.G. Yodh, J.H. Greenberg, and J.A. Detre. The Effect of Healthy Aging on Cerebral Hemodynamic Responses to Posture Change. *Physiol. Meas.*, 31(4):477-495, 2010.
  28. M.N. Kim, T. Durduran, S. Frangos, B.L. Edlow, E.M. Buckley, H.E. Moss, **C. Zhou**, G.Q. Yu, R. Choe, E. Maloney-Wilensky, R.L. Wolf, M.S. Grady, J.H. Greenberg, J.M. Levine, A.G. Yodh, J.A. Detre, and W.A. Kofke. Noninvasive Measurement of Cerebral Blood Flow and Blood Oxygenation Using Near-Infrared and Diffuse Correlation Spectroscopies in Critically Brain-Injured Adults. *Neurocrit. Care*, 12(2):173-180, 2010.
  29. **C. Zhou**, S.A. Eucker, T. Durduran, G.Q. Yu, J. Ralston, S.H. Friess, R.N. Ichord, S.S. Margulies, and A.G. Yodh. Diffuse optical monitoring of hemodynamics in piglet brain with head trauma injury. *J. Biomed. Opt.*, 14 (3):034015, 2009.
  30. J. Luckl, **C. Zhou**, T. Durduran, A.G. Yodh, and J.H. Greenberg. Characterization of peri-infarct flow transients with laser speckle and Doppler after middle cerebral artery occlusion in the rat. *J. Neurosci. Res.*, 87(5):1219-1229, 2009.
  31. D.C. Adler, **C. Zhou**, T.-H. Tsai, J. Schmitt, Q. Huang, H. Mashimo, and J.G. Fujimoto. Three-dimensional endomicroscopy of the human colon using optical coherence tomography, *Opt. Express*, 17(2):784-796, 2009.
  32. **C. Zhou**, D.C. Adler, L. Becker, Y. Chen, T.-H. Tsai, M. Figueiredo, J.M. Schmitt, J.G. Fujimoto, and H. Mashimo. Effective treatment of chronic radiation proctitis using radiofrequency ablation. *Ther. Adv. Gastroenterol.*, 2(3):149-156, 2009.
  33. T. Durduran, **C. Zhou**, B.L. Edlow, G.Q. Yu, R. Choe, B.L. Cucchiara, M. Putt, Q. Shah, S.E. Kasner, J.H. Greenberg, A.G. Yodh, and J.A. Detre. Transcranial Optical Monitoring of Cerebral Blood Flow and Hemoglobin Concentration in Acute Stroke Patients during Positional Interventions. *Opt. Express*, 17(5):3884-3902, 2009.
  34. D.C. Adler, **C. Zhou**, T.-H. Tsai, H.-Chieh Lee, L. Becker, J.M. Schmitt, Q. Huang, J.G. Fujimoto, and H. Mashimo, Three-dimensional optical coherence tomography examination of non-ablated Barrett's esophagus and buried glands beneath neo-squamous epithelium following radiofrequency ablation. *Endoscopy*, 41(9):773-776, 2009.
  35. T.-H. Tsai, **C. Zhou**, D.C. Adler, and J.G. Fujimoto. Frequency Comb Swept Lasers, *Opt. Express*, 17(23):21257-21270, 2009.
  36. E.M. Buckley, N.M. Cook, T. Durduran, M.N. Kim, **C. Zhou**, R. Choe, G.Q. Yu, S. Shultz, C.M. Sehgal, D.J. Licht, P.H. Arger, M.E. Putt, H. Hurt, and A.G. Yodh. Cerebral hemodynamics in preterm infants during positional intervention measured with diffuse correlation spectroscopy and transcranial Doppler ultrasound. *Opt. Express*, 17(15):12571-12581, 2009.
  37. **C. Zhou**, T. Shimazu, T. Durduran, J. Luckl, D.Y. Kimberg, G.Q. Yu, X.H. Chen, J.A. Detre, A.G. Yodh, and J.H. Greenberg. Acute functional recovery of cerebral blood flow following forebrain ischemia in rat. *J. Cereb. Blood Flow Metab.*, 28(7):1275-1284, 2008.
  38. **C. Zhou**, R. Choe, N. Shah, T. Durduran, G.Q. Yu, A. Durkin, D. Hsiang, R. Mehta, J. Butler, A. Cerussi, B.J. Tromberg, and A.G. Yodh. Diffuse optical monitoring of blood flow and oxygenation in

- human breast cancer during early stages of neoadjuvant chemotherapy. *J. Biomed. Opt.*, 12(5):051903, 2007.
39. G. Q. Yu, T. Floyd, T. Durduran, **C. Zhou**, J. J. Wang, J. A. Detre, and A. G. Yodh. Concurrent diffuse optical and MRI measurements of blood flow in human skeletal muscle. *Opt. Express*, 15(3):1064-1075, 2007.
  40. U. Sunar, S. Makonnen, **C. Zhou**, T. Durduran, G.Q. Yu, H.W. Wang, W.M.F. Lee, and A.G. Yodh. Hemodynamic responses to antivasular therapy and ionizing radiation assessed by diffuse optical spectroscopies. *Opt. Express*, 15(23):15507-15516, 2007.
  41. **C. Zhou**, G.Q. Yu, D. Furuya, J.H. Greenberg, A.G. Yodh, and T. Durduran. Diffuse optical correlation tomography of cerebral blood flow during cortical spreading depression in rat brain. *Opt. Express*, 14(3):1125-1144, 2006.
  42. G. Q. Yu, T. Durduran, **C. Zhou**, T. C. Zhu, J. C. Finlay, T. M. Busch, S. B. Malkowicz, S. M. Hahn, and A. G. Yodh. Real-time in situ monitoring of human prostate photodynamic therapy with diffuse light. *Photochem. Photobiol.*, 82(5):1279-1284, 2006.
  43. U. Sunar, H. Quon, T. Durduran, J. Zhang, J. Du, **C. Zhou**, G.Q. Yu, R. Choe, A. Kilger, R. Lustig, L. Loevner, S. Nioka, B. Chance, and A.G. Yodh. Noninvasive diffuse optical measurement of blood flow and blood oxygenation for monitoring radiation therapy in patients with head and neck tumors: a pilot study. *J. Biomed. Opt.*, 11(6):064021, 2006.
  44. G.Q. Yu, T. Durduran, G. Lech, **C. Zhou**, B. Chance, R.E. Mohler, and A.G. Yodh. Time-dependent blood flow and oxygenation in human skeletal muscles measured with noninvasive near-infrared diffuse optical spectroscopies. *J. Biomed. Opt.*, 10(2):024027, 2005.
  45. G.Q. Yu, T. Durduran, **C. Zhou**, H.W. Wang, M.E. Putt, H.M. Saunders, C.M. Sehgal, E. Glatstein, A.G. Yodh, and T.M. Busch. Noninvasive monitoring of murine tumor blood flow during and after photodynamic therapy provides early assessment of therapeutic efficacy. *Clin. Cancer Res.*, 11(9):3543-3552, 2005.
  46. T. Durduran, R. Choe, G.Q. Yu, **C. Zhou**, J.C. Tchou, B.J. Czerniecki, and A.G. Yodh. Diffuse optical measurement of blood flow in breast tumors. *Opt. Lett.*, 30(21):2915-2917, 2005.
  47. T. Durduran, G.Q. Yu, M.G. Burnett, J.A. Detre, J.H. Greenberg, J. Wang, **C. Zhou**, and A.G. Yodh. Diffuse optical measurement of blood flow, blood oxygenation, and metabolism in a human brain during sensorimotor cortex activation. *Opt. Lett.*, 29(15):1766-1768, 2004.
  48. T. Durduran, M.G. Burnett, G.Q. Yu, **C. Zhou**, D. Furuya, A.G. Yodh, J.A. Detre, and J.H. Greenberg. Spatiotemporal quantification of cerebral blood flow during functional activation in rat somatosensory cortex using laser-speckle flowmetry. *J. Cereb. Blood Flow Metab.*, 24(5):518-525, 2004.

### **Book Chapters**

1. **C. Zhou**, J.G. Fujimoto, T.-H. Tsai, and H. Mashimo, Endoscopic Optical Coherence Tomography and Clinical Applications, *Optical Coherence Tomography: Technology and Applications*, 2nd Ed., J.G. Fujimoto and W. Drexler, Eds., Springer-Verlag, Berlin, Heidelberg, 2015.
2. A.D. Aguirre, **C. Zhou**, H.-C. Lee, O.O. Ahsen, and J.G. Fujimoto, Optical Coherence Microscopy, in *Optical Coherence Tomography: Technology and Applications*, 2nd Ed., J.G. Fujimoto and W. Drexler, Eds., Springer-Verlag, Berlin, Heidelberg, 2015.
3. G.Q. Yu, T. Durduran, **C. Zhou**, R. Cheng, A.G. Yodh. Near-infrared Diffuse Correlation Spectroscopy (DCS) for Assessment of Tissue Blood Flow. Chapter 13 In: D.A. Boas, C. Pitris, N. Ramanujam, editors. *Handbook of Biomedical Optics*. Oakland: Taylor and Francis, 2011.

### **Invited Talks**

06/2014      Light for Health (L4H) seminar series, ICFO-The Institute of Photonic Sciences, Spain

06/2014 Nanoscience Institute of Aragon (INA), University of Zaragoza, Spain  
 05/2014 Biodynamic Optical Imaging Center (BIOPIIC), Peking University  
 05/2014 Department of Mechanical Engineering, Department of Precision Instrument, Tsinghua University  
 05/2014 ECE department seminar, University of Delaware  
 11/2013 McGroddy Frontiers in Science Seminar Series, Saint Joseph's University  
 11/2013 Berks Med Device Group, Ben Franklin Technology Partners  
 10/2013 IEEE/OSA student Chapter Seminar Series, Lehigh University  
 06/2013 The Biosystems Dynamics Summer Institute, Lehigh University  
 05/2013 11th International Conference on Photonics and Imaging in Biology and Medicine, Huazhong University of Science and Technology, China  
 05/2013 Wuhan University of Science and Technology, China  
 05/2013 Third Affiliated Hospital of Zhengzhou University, China  
 01/2013 Wuhan National Laboratory for Optoelectronics, Huazhong University of Science and Technology, China  
 01/2013 State Key Lab of Software Engineering, Wuhan University, China  
 12/2012 LG Electronics, South Korea  
 12/2012 Department of Biological Sciences, Lehigh University  
 11/2012 Center for Advanced Materials & Nanotechnology, Lehigh University  
 11/2012 Division of Gastroenterology, University of Pennsylvania  
 10/2012 Department of Cancer Biology, University of Pennsylvania  
 09/2012 Advances in Biomedical Optics seminar series, Department of Physics and Astronomy and Center for Magnetic Resonance and Optical Imaging (CMROI), University of Pennsylvania  
 05/2011 School of Electrical Engineering, Zhengzhou University  
 02/2011 Department of Physics, University of South Florida  
 02/2011 Department of Electrical and Computer Engineering, Lehigh University  
 09/2010 Department of Electrical, Computer, and Biomedical Engineering, University of Rhode Island  
 03/2010 Research Laboratory of Electronics, Massachusetts Institute of Technology  
 03/2007 The Photon Migration Imaging laboratory at the Athinoula A. Martinos Center for Biomedical Imaging, Massachusetts General Hospital  
 03/2007 Research Laboratory of Electronics, Massachusetts Institute of Technology  
 04/2007 Physics Colloquium, Richard Stockton College of New Jersey  
 06/2005 Beckman Laser Institute, University of California at Irvine

### **Professional Activities**

Peer reviewer for *Optics Letters*, *Optics Express*, *Biomedical Optics Express*, *Applied Optics*, *Journal of Optical Society of America - A*, *Journal of Optical Society of America – B*, *Journal of Biomedical Optics*, *Light: Science & Applications*, *Photonics*, *Medical Physics*, *Human Brain Mapping*, *Physics in Medicine and Biology*, *Physiological Measurement*, *Transplantation*, *Journal of Clinical & Experimental Cardiology*, *Journal of Selected Topics in Quantum Electronics*, *Journal of Innovative Optical Health Sciences* and several conferences.

Editorial board member for *World Journal of Radiology*.

Guest Associate Editor for *Medical Physics*.

**Professional Memberships**

International Society for Optical Engineering (SPIE), Optical Society of America (OSA), American Heart Association (AHA), International Society for Cerebral Blood flow and Metabolism (ISCBFM)

**Teaching Experience**

Fall 2013, 2014	ECE 108, <i>Signals and Systems</i> , Lehigh University
Fall 2013	ECE 182, <i>Junior Lab</i> , Lehigh University
Spring 2013, 2014	ECE 350/450, BioE 396/496, <i>Introduction to Biophotonics / Optical Biomedical Imaging</i> , Lehigh University
Fall 2012	ECE 350/450, <i>Principles of Advanced Optical Imaging Technologies</i> , Lehigh University
05/2011	Guest lecturer for course 6.634 – <i>Nonlinear Optics</i> , Massachusetts Institute of Technology
01/2009	Guest lecturer for the IAP course 6.095 - <i>Introduction to Modern Optoelectronics for Undergraduates</i> , Massachusetts Institute of Technology
04/2007	Guest lecturer for an undergraduate course - <i>Medical Physics</i> , Richard Stockton College of New Jersey
09/2001 - 05/2002	Teaching assistant (TA) for PHYS 101 - <i>General Physics</i> ; PHYS 150 - <i>Principles I</i> ; PHYS 230 - <i>Principles III</i> ; and PHYS 361 - <i>Electromagnetism I</i> , Department of Physics and Astronomy, University of Pennsylvania