

ALESSANDRO SALANDRINO

Curriculum Vitae

January 25, 2018

Personal Information

Assistant Professor
Electrical Engineering & Computer Science
University of Kansas
1520 W. 15th Street
3030 Eaton Hall
Lawrence, KS 66045

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Education

Ph.D., Optics and Photonics, August 2011
University of Central Florida, CREOL, College of Optics and Photonics

MS, Optics and Photonics, December 2010
University of Central Florida, Orlando, FL

Laurea Magistralis, Electrical Engineering, May 2003
University of Rome Romatre

Employment History

Academic

University of Kansas, Lawrence, KS
Assistant Professor of Electrical Engineering and Computer Science, August 18, 2014 - Present

University of California Berkeley, Berkeley, CA
Postdoctoral Research Scholar, Prof. Xiang Zhang's group, September 2011 - July 2014

University of Pennsylvania
Visiting graduate research assistant (non-degree), Prof. Nader Engheta's group, November 2003 - June 2007

Professional Memberships

IEEE

Optical Society of America (OSA)

SPIE

Professional Service

Editorial Responsibilities

International

Editor, Associate

Optics Materials Express, (Appointed) Optical Society of America (OSA). (Fall 2015 - Present)

Editorial Board Member

Scientific Reports, (Appointed) Nature Publishing Group. (August 29, 2016 - Present)

Guest Editor

Materials (MDPI), (Appointed). Guest Editor for the special issue on "Nonlinear Optical Materials" (April 1, 2016 - February 1, 2017)

Other Professional Service

International

Grant Reviewer

(Appointed) European Research Council. Reviewing proposals for ERC Advanced Grant - 2014 (February 3, 2015 - March 3, 2015)

Program Organizer

(Appointed) SPIE - 2017 Metamaterials, Metadevices and Metasystems conference, San Diego, CA, USA. Advising the Chairs on a variety of issues relevant to the technical content of the conference and nominating the invited speakers (October 23, 2016 - August 10, 2017)

(Appointed) Optical Society of America - Integrated Photonic Research Symposium. Organizing sessions.

Selecting invited speakers. (November 29, 2016 - July 27, 2017)

National

Attendee, Meeting

DARPA - DSO Proposers Day, Arlington, VA, USA. Meeting with Program Directors (July 21, 2015 - July 22, 2015)

AFOSR Annual YIP review meeting 2015, Arlington, VA, USA. Meeting with Program Directors (June 15, 2015 - June 18, 2015)

(Appointed) AFOSR - Annual EM Contractor's Review 2015, Arlington, VA, USA. Meeting with Program Directors (January 6, 2015 - January 7, 2015)

Honors/Awards/Honor Societies

Individual Honors/Awards

Recipient of the AFOSR YIP grant (February 1, 2016 - Present)

2016 Miller Scholar Award, University of Kansas (2016)

Presidential Doctoral Fellowship, University of Central Florida (2007 - 2010)

SPIE Scholarship in Optical Engineering (2008)

Research/Scholarly Work

Publications

Total: 64

Journal Articles

Total: 33

33. Das, S., Salandrino, A., & Hui, R. (in progress). Tunable Hyper-photonic Devices. *Journal of the Optical Society of America B*.
32. Salandrino, A. (in review). Plasmonic Parametric Resonance. *Physical Review B*.
31. Fardad, S., Ramos, E. A., & Salandrino, A. (2017). Accumulation-layer surface plasmons in transparent conductive oxides. *Optics Letters*, 42(10), 2038-2041.
30. Das, S., Fardad, S., Kim, I., Rho, J., Hui, R., & Salandrino, A. (2016). Nanophotonic Modal Dichroism: Mode-Multiplexed Modulators. *Optics Letters*, 41(18), 4394-4397.
29. Fardad, S., Salandrino, A., Samadi, A., Heinrich, M., Chen, Z., & Christodoulides, D. N. (2016). Scattering detection of a solenoidal Poynting vector field. *Optics Letters*, 41(15), 3615–3618. <http://ol.osa.org/abstract.cfm?URI=ol-41-15-3615>
28. Wang, X., Fardad, S., Das, S., Salandrino, A., & Hui, R. (2016). Direct observation of bulk second-harmonic generation inside a glass slide with tightly focused optical fields. *Physical Review B (Rapid)*, 93(16), 161109. <http://link.aps.org/doi/10.1103/PhysRevB.93.161109> doi:10.1103/PhysRevB.93.161109
27. Salandrino, A., Wang, Y., & Zhang, X. (2016). Nonlinear infrared plasmonic waveguide arrays. *Nano Research*, 1-6. <http://dx.doi.org/10.1007/s12274-016-0994-0> doi:10.1007/s12274-016-0994-0 ISSN: 1998-0124
26. Fardad, S., Das, S., Salandrino, A., Breckenfeld, E., Kim, H., Wu, J., & Hui, R. (2016). All-optical short pulse translation through cross-phase modulation in a VO2 thin film. *Optics Letters*, 41, 238-241.
25. O'Brien, K., Suchowski, H., Rho, J., Salandrino, A., Kante, B., Yin, X., & Zhang, X. (2015). Predicting nonlinear properties of metamaterials from the linear response. *Nature Materials*, 14, 379.
24. Barth, D. S., Gladden, C., Salandrino, A., O'Brien, K., Ye, Z., Mrejen, M., Wang, Y., & Zhang, X. (2015). Macroscale Transformation Optics Enabled by Photoelectrochemical Etching. *Advanced Materials*. doi:10.1002/adma.201502322 ISSN: 0935-9648 PMID: 26332896
23. Cang, H., Salandrino, A., Wang, Y., & Zhang, X. (2015). Adiabatic Far Field Sub-Diffraction Imaging. *Nature Communications*, 6, 8942.

- <http://www.nature.com/ncomms/2015/150810/ncomms8942/full/ncomms8942.html>
doi:10.1038/ncomms8942
22. Das, S., Salandrino, A., Wu, J. Z., & Hui, R. (2015). Near-infrared electro-optic modulator based on plasmonic graphene. *Optics Letters*, *40*(7), 1516–1519.
<http://ol.osa.org/abstract.cfm?URI=ol-40-7-1516>
 21. Wu, C., Salandrino, A., Ni, X., & Zhang, X. (2014). Electrodynamical Light Trapping Using Whispering-Gallery Resonances in Hyperbolic Cavities. *Physical Review X*, *4*, 021015.
 20. Fardad, S., Salandrino, A., Heinrich, M., Zhang, P., Chen, Z., & Christodoulides, D. N. (2014). Plasmonic resonant solitons in metallic nanosuspensions. *Nano letters*, *14*(5), 2498-504.
doi:10.1021/nl500191e ISSN: 1530-6984 PMID: 24697412
 19. Suchowski, H., O'Brien, K., Wong, Z. J., Salandrino, A., Yin, X., & Zhang, X. (2013). Phase-mismatch Free Nonlinear Propagation in Optical Zero Index Materials. *Science*, *342*, 1223-1226.
 18. Salandrino, A., Fardad, S., & Christodoulides, D. N. (2012). Generalized Mie Theory of optical forces. *Journal of the Optical Society of America B*, *29*, 855.
 17. Zhang, P., Hu, Y., Cannan, D., Salandrino, A., Li, T., Morandotti, R., Zhang, X., & Chen, Z. (2012). Generation of linear and nonlinear nonparaxial accelerating beams. *Optics Letters*, *37*, 2820.
 16. Minovich, A., Klein, A. E., Liu, W., Salandrino, A., Janunts, N., Shadrivov, I. V., Miroshnichenko, A. E., Pertsch, T., Neshev, D. N., Christodoulides, D. N., & Kivshar, Y. S. (2011). Airy Plasmons: Bending Light on a Chip. *Optics & Photonics News*, *22*(12), 35. (Invited)
 15. Salandrino, A., & Christodoulides, D. N. (2011). Reverse optical forces in negative index dielectric waveguide arrays. *Optics Letters*, *36*, 3103.
 14. Salandrino, A., & Christodoulides, D. N. (2011). Superresolution via enhanced evanescent tunneling. *Optics Letters*, *36*, 487.
(4 ISI Citations)
 13. Salandrino, A., & Christodoulides, D. N. (2010). Airy plasmon: a nondiffracting surface wave. *Optics Letters*, *35*, 2082.
 12. Salandrino, A., & Christodoulides, D. N. (2010). Negative index Clarricoats-Waldron waveguides for terahertz and far infrared applications. *Optics Express*, *18*, 3626.
 11. Li, J., Salandrino, A., & Engheta, N. (2009). Optical Spectrometer at the nanoscale using optical Yagi-Uda nanoantennas. *Physical Review B*, *79*, 195104.
 10. Salandrino, A., Makris, K., Christodoulides, D. N., Lahini, Y., Silberberg, Y., & Morandotti, R. (2009). Analysis of a three-core adiabatic directional coupler. *Optics Communications*, *282*, 4524.
 9. Holloway, C. L., Love, D. C., Kuester, E. F., Salandrino, A., & Engheta, N. (2008).

- Sub-wavelength resonators: On the use of metafilm to overcome the $\lambda/2$ size limit. *IET Microwaves Antennas and Propagation*, 2, 120.
8. Alú, A., Salandrino, A., & Engheta, N. (2007). Coupling of optical lumped nanocircuit elements and effects of substrates. *Optics Express*, 15, 13865.
 7. Alú, A., Salandrino, A., & Engheta, N. (2007). Parallel, series, and intermediate interconnections of optical nanocircuit elements. 2. Nanocircuit and physical interpretation. *Journal of the Optical Society of America B*, 24, 3014.
 6. Alú, A., Silveirinha, M. G., Salandrino, A., & Engheta, N. (2007). Epsilon-Near-Zero Metamaterials and Electromagnetic Sources: Tailoring the Radiation Phase Pattern. *Physical Review B*, 75, 155410.
 5. Li, J., Salandrino, A., & Engheta, N. (2007). Shaping the Beam of Light in Nanometer Scales: A Yagi-Uda Nanoantenna in Optical Domain. *Phys. Rev. B*, 76, 245403.
 4. Salandrino, A., Alú, A., & Engheta, N. (2007). Parallel, series, and intermediate interconnections of optical nanocircuit elements. 1. Analytical solution. *Journal of the Optical Society of America B*, 24, 3007-3013.
 3. Alú, A., Salandrino, A., & Engheta, N. (2006). Negative effective permeability and left-handed materials at optical frequencies. *Optics Express*, 14, 1557.
 2. Salandrino, A., & Engheta, N. (2006). Far-Field Subdiffraction Optical Microscopy Using Metamaterial Crystals: Theory and Simulations. *Physical Review B*, 74, 075103.
press coverage and highlights:
-Nature Physics 2, 651, Research Highlights (2006)
-Physics News Update, AIP Bulletin of Physics News, No. 823-7, May 8, 2007
 1. Salandrino, A., Engheta, N., & Alú, A. (2005). Circuit Elements at Optical Frequencies: Nano-Inductor, Nano-Capacitor, and Nano-Resistor. *Physical Review Letters*, 95, 95504.
press coverage and highlights:
-Physics News Update, AIP Bulletin of Physics News, No. 737-1, July 14, 2005
-Science Daily, Sept. 27, 2005
-Nanotechnology Now, September 28, 2005

Conference Proceedings

Total: 30

30. Blunt, S. D., Allen, C., Arnold, E., Hale, R., Hui, R., Keshmiri, S., Leuschen, C., Li, J., Paden, J., Rodriguez-Morales, F., Salandrino, A., & Stiles, J. M. (2017). Radar research at the University of Kansas. In *SPIE Defense+ Security* (pp. 1018817-1018817-12). International Society for Optics and Photonics. (Invited)
29. Salandrino, A., & Ramos, E. A. (2017). High-Order plasmonic resonances in time-varying media. In *SPIE Nanoscience+ Engineering*. (Invited)
28. Bart, D., Gladden, C. W., Salandrino, A., Ye, Z., Mrejen, M., Wang, Y., & Zhang, X. (2016). Macroscale transformation optics enabled by photoelectrochemical etching of silicon. In *SPIE Nanoscience+ Engineering*.

27. Symm, E. D., & Salandrino, A. (2016). Accessing High-Order Resonances in Plasmonic Nanostructures. In *SPIE Nanoscience+ Engineering*. (Invited)
26. Salandrino, A., McCormick, P., Balcazar, M. D., & Blunt, S. D. (2016). Spatially Modulated Metamaterial Array for Transmit (SMMArT) and Slow-Leaky-Wave Antennas. In *IEEE Intl. Symp. Phased Array Systems & Technology, Waltham, MA, 18-21 Oct. 2016*. (Invited)
25. Salandrino, A., Chachayma Farfan, D. J., McCormick, P., Symm, E. D., & Blunt, S. D. (2016). Spatially Modulated Metamaterial Array for Transmit (SMMArT). In *IEEE Radar Conference*.
24. Salandrino, A. (2015). Coherent effects in nonlinear metamaterial-based devices. In *SPIE Nanoscience+ Engineering* (pp. 95440D–95440D). (Invited)
23. Fardad, S., Man, W., Zhang, Z., Salandrino, A., Heinrich, M., Chen, Z., & Christodoulides, D. N. (2014). Dielectric and metallic nanosuspensions with tunable optical nonlinearities. In *SPIE NanoScience+ Engineering* (pp. 91620N–91620N).
22. O'Brien, K., Suchowski, H., Wong, Z. J., Salandrino, A., Yin, X., & Zhang, X. (2014). Nonlinear optics in zero index materials. In *Conference on Lasers and Electro-Optics (CLEO), 2014* (pp. 1–2).
21. Salandrino, A., Cang, H., Wang, Y., & Zhang, X. (2014). Sub-diffraction Imaging via Surface Plasmon Decompression. In *CLEO: QELS_Fundamental Science* (pp. FTu1K–1).
20. Salandrino, A., et al. (2014). Bimodal Phase-Matching in Hybrid Photonic Plasmonic Systems. In *Gordon Research Conference - Plassmonics*. (Invited)
19. O'Brien, K. P., Suchowski, H., Rho, J. S., Salandrino, A., Kante, B., Yin, X., & Zhang, X. (2013). Mode matched harmonic generation in plasmonic nanostructures. In *CLEO: QELS_Fundamental Science* (pp. QTu2B–3).
18. Fardad, S., Salandrino, A., Chen, Z., & Christodoulides, D. N. (2012). Anomalous optical forces on a Mie-particle in a transverse Poynting vector flow. In *CLEO - QELS Quantum Electronics and Laser Science Conference* (pp. QW3E–3).
17. Zhang, P., Hu, Y., Cannan, D., Salandrino, A., Li, T., Morandotti, R., Zhang, X., & Chen, Z. (2012). Demonstration of nonparaxial beams self-bending along circular trajectories. In *Frontiers in Optics* (pp. FTh1F–5).
16. Salandrino, A., & Christodoulides, D. (2011). Optical tractor beams in scattering-induced left-handed fields. In *CLEO - QELS Quantum Electronics and Laser Science Conference* (pp. QTuI7).
15. Ren, H., Salandrino, A., Siviloglou, G. A., & Christodoulides, D. N. (2010). Anomalous optical force fields around high-contrast subwavelength nanowaveguides. In *CLEO - QELS Quantum Electronics and Laser Science Conference* (pp. QMA4).
14. Salandrino, A., Padilha, L. A., Webster, S., Fuentes-Hernandez, C., Kippelen, B., Hagan, D. J., & Van Stryland, E. W. (2008). Observation of plasmonic field-enhancement of the nonlinear response of gold thin films. In *CLEO - QELS Quantum Electronics and Laser Science*

Conference (pp. QThA6).

13. Li, J., Salandrino, A., & Engheta, N. (2007). Ideas for Optical Nanoantenna Design: From Microwave to Visible Frequencies. In *Frontiers in Optics* (pp. FThF5).
12. Alu, A., Silveirinha, M., Salandrino, A., & Engheta, N. (2006). Source Interaction with Epsilon-Near-Zero (ENZ) Materials. In *Organic Photonics and Electronics* (pp. JWD18).
11. Engheta, N., Alu, A., Salandrino, A., Li, J., Silveirinha, M. G., & Edwards, B. E. (2006). From Plasmonic Nanocircuit Elements to Volumetric Photonic Negative-Refractive Metamaterials. In *Frontiers in Optics* (pp. FMH2).
10. Engheta, N., Alu, A., Silveirinha, M. G., Salandrino, A., & Li, J. (2006). DNG, SNG, ENZ and MNZ metamaterials and their potential applications. In *Electrotechnical Conference, 2006. MELECON 2006. IEEE Mediterranean* (pp. 258–261).
9. Krishnan, D., Salandrino, A., & Engheta, N. (2006). Binary Encoding and Nanotagging Using Plasmonic Core-Shell Nanoparticles. In *Organic Photonics and Electronics* (pp. JWD63).
8. Li, J., Salandrino, A., & Engheta, N. (2006). Optical yagi-uda and reflector nanoantennas and their potential applications as nano-scale spectrum analyzers in molecular spectroscopy. In *Frontiers in Optics* (pp. FWC4).
7. Li, J., Salandrino, A., & Engheta, N. (2006). Radiation Characteristics and Beam Forming of Multi-Particle Nanoantennas at Optical Frequencies. In *IEEE International Workshop on Antenna Technology Small Antennas and Novel Metamaterials* (pp. 432–433).
6. Salandrino, A., Edwards, B. E., & Engheta, N. (2006). Sub-Diffraction Optical Lenses for Use in Far-Field Sub-Wavelength Optical Microscopy (FSOM). In *Frontiers in Optics* (pp. FWX2).
5. Engheta, N., Alu, A., & Salandrino, A. (2005). Double-Negative and Single-Negative Metamaterials at Optical Frequencies. In *Proceedings of the XXVIIIth URSI General Assembly, New Delhi*.
4. Engheta, N., Alu, A., & Salandrino, A. (2005). Nanocircuit elements, nano-transmission lines and nano-antennas using plasmonic materials in the optical domain. In *IEEE International Workshop on Antenna Technology: Small Antennas and Novel Metamaterials, 2005. IWAT 2005*. (pp. 165–168).
3. Engheta, N., Li, J., & Salandrino, A. (2005). Pattern Synthesis in Optical Nano-Antennas Using Collections of Metallic Nanoparticles. In *Frontiers in Optics* (pp. FTuC3).
2. Engheta, N., Salandrino, A., & Alu, A. (2005). Conjoined nanoparticles as parallel or series circuit elements at optical frequencies. In *USNC/CNC/URSI National Radio Science Meeting, Washington, DC, USA* (pp. 14).
1. Engheta, N. (2005). Negative Magnetic Response and Left-Handed Metamaterials in the Optical Domain Using Plasmonic Nanostructures. In *APS Meeting* (Vol. 1, pp. 16011).

Other Publications

Total: 1

1. Salandrino, A., & Christodoulides, D. (2011). Viewpoint: Airy plasmons defeat diffraction on the surface. In *APS Physics* (Vol. 4, pp. 69). (Invited)

Research Funding/Fellowships

University of Kansas

Externally-Funded Grant/Contract

Funded

Salandrino, A. (Principal), "Time-varying metamaterials: dynamic transformation optics and parametric phenomena," AFOSR (YIP), \$365,682, Submitted October 8, 2015 (February 1, 2016 - January 1, 2019).

Allen, C. (Principal), Salandrino, A. (Co-Investigator), Blunt, S. D. (Co-Investigator), "Helicopter collision avoidance radar and Hostile fire detection radar," W911NF-16-2-0222 Army Research Laboratory, \$499,948 (September 1, 2016 - August 31, 2018).

Shontz, S. M. (Principal), Huang, W. (Co-Investigator), Laird, B. B. (Co-Investigator), Miller, J. R. (Co-Investigator), Salandrino, A. (Co-Investigator), WANG, Z. J. (Co-Investigator), "High Performance Computing and Visualization Infrastructure for Simultaneous Parallel Computing and Parallel Visualization Research," ARO, AFOSR, \$511,937, Submitted Fall 2014 (August 15, 2015 - August 14, 2016).

Not Funded

Salandrino, A. (Principal), Fardad, S. (Co-Principal), "PRE-PROPOSAL: Extreme nonlinear optics in soft-matter metamaterials," DARPA - DSO, \$681,029, Submitted December 18, 2017 (2017).

Ahmadi, R. (Principal), Salandrino, A. (Co-Investigator), Beckage, N. (Co-Investigator), "EMI Based Condition Monitoring for Power Semiconductor Switches," Office of Naval Research, \$270,425, Submitted November 1, 2016.

Salandrino, A. (Principal), Hui, R. (Co-Investigator), "PRE-PROPOSAL: Development of a Multimodal Ultrafast Spectroscopy & Imaging System (MUSIS)," NSF - MRI, \$975,000, Submitted October 5, 2015.

Hui, R. (Principal), Salandrino, A. (Co-Investigator), "Volumetric CARS imaging based on single-laser excitation and fast axial-scan," R21, NIH, \$384,763, Submitted October 15, 2015.

Salandrino, A. (Co-Principal), Ahmadi, R. (Principal), Beckage, N. (Co-Principal), "PD2. EMI Based Condition Monitoring for Power Semiconductor Switches," US Navy, \$270,425, Submitted October 31, 2016 (June 1, 2017 - May 31, 2020).

Wu, J. (Principal), Hui, R. (Co-Investigator), Chan, W.-L. (Co-Investigator), Sakidja, R. (Co-Investigator), Salandrino, A. (Co-Investigator), "Tunable photonic devices based on plasmonic 2D materials," NSF - EFRI-2-DARE, \$1,823,866, Submitted Fall 2014 (January 1,

2016 - December 31, 2019).

Salandrino, A. (Principal), Blunt, S. (Co-Principal), "Impedance Screens for Active and Adaptive Electromagnetic Scattering Modulation," Air Force Research Lab - Rome, \$660,000, Submitted February 18, 2016 (September 1, 2016 - August 31, 2019).

Salandrino, A. (Principal), Hui, R. (Co-Investigator), Wu, J. (Co-Investigator), "Tunable Photonic Devices Based on Plasmonic Graphene," NSF - EPMD, \$484,342, Submitted November 2, 2015 (June 1, 2016 - May 31, 2019).

Hui, R. (Principal), Chan, W.-L. (Co-Principal), Salandrino, A. (Co-Principal), Wu, Z. (Co-Principal), "Metasurface enabled plasmonic-photonic devices," Defense Advanced Res Projects Agency, \$2,980,338, Submitted February 19, 2015 (September 1, 2015 - August 31, 2018).

Hui, R. (Principal), Salandrino, A. (Co-Principal), Wu, J. (Co-Principal), "Tunable photonic devices based on plasmonic graphene," NSF, \$490,106, Submitted Fall 2014 (June 1, 2015 - May 31, 2018).

Salandrino, A. (Principal), "Coherent effects in nonlinear metamaterial-based devices and waveguides," BAA-AFOSR-2014-0003 The Air Force Office of Scientific Research (AFOSR), \$381,076, Submitted Fall 2014 (February 1, 2015 - January 1, 2018).

Blunt, S. D. (Principal), Allen, C. (Co-Investigator), Perrins, E. (Co-Investigator), Liu, L. (Co-Investigator), Salandrino, A. (Co-Investigator), "MIMO RF Testbed for Waveform-Diverse and Joint Sensing/Communications Research," AFOSR, \$607,445, Submitted Fall 2014 (September 15, 2015 - September 14, 2016).

Internal Award

Funded

Hui, R. (Principal), Salandrino, A. (Co-Principal), "Fabrication of integrated photonic circuits using KU Core Facility," K-INBRE Institutional Funds, \$5,000 (October 1, 2015 - April 30, 2016).

New Faculty General Research Fund

Funded

Salandrino, A. (Principal), "Nonlinear susceptibility analysis and design in plasmonic nanostructures," University of Kansas, \$7,905 (2015).

Patents

Engheta, N., Salandrino, A., Edwards, B., Patent. "Far-field sub-diffraction optical lenses (fasdol)", US20090303578, U.S. Patent. (Granted: December 10, 2009).

Engheta, N., Salandrino, A., Patent. "Frequency-modulated coding and data recording and storage using plasmonic nanostructures", US20090080297, U.S. Patent. The Trustees of the University of Pennsylvania, (Granted: March 26, 2009).

Engheta, N., Salandrino, A., Alu, A., Patent. "Optical Circuits and Circuit Elements and Methods of Forming Same", US20080212920, U.S. Patent. The Trustees of the University of Pennsylvania, (Granted: September 4, 2008).

Summary List of Courses Taught

University of Kansas (Fall 2015)

EECS 700 - Plasmonics and Metamaterials

University of Kansas (Spring 2015)

EECS 220 - Electromagnetics I

University of Kansas (Fall 2014)

EECS 420 - Electromagnetics II

School Service

University of Kansas

Reviewer

Center for Undergraduate Research - Undergraduate Research Award. (Appointed) reviewing Undergraduate Research Award proposals (November 2014 - December 2014)

Department Service

University of Kansas

Electrical Engineering & Computer Science

Member

Equipment Committee. (Appointed) (Fall 2015 - Present)

Faculty Search Committee. Wireless Communications position. (Appointed) Interviewing candidates. (Fall 2016)

Service Presentations

Salandrino, A. (2013). Guest lecturer: ME 290, Plasmonic Materials (Graduate Course). University of California, Berkeley.