

MARC P. CHRISTENSEN

EDUCATION

Cornell University, Bachelor of Science, Engineering Physics	Ithaca, New York 1993
George Mason University, Master of Science, Electrical Engineering	Fairfax, Virginia 1998
George Mason University, Doctor of Philosophy, Electrical & Computer Engineering	Fairfax, Virginia 2001

HIGHER EDUCATION LEADERSHIP DEVELOPMENT

Harvard University, Graduate School of Education Higher Education Management Development Program (summer program)	Cambridge, Massachusetts 2008
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ACADEMIC LEADERSHIP

Southern Methodist University, Dean, Lyle School of Engineering,	Dallas, Texas 2013-present
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Founded in 1911, SMU is a private comprehensive research university located in Dallas, Texas, with an endowment of \$2B. In September 2021, SMU launched its third capital campaign, which aims to raise \$1.5B. It has over 12,000 students, with approximately 6,800 undergraduate students (ACT 31, 95th percentile) and 5,500 graduate students.

- **Advancement:** Responsible for raising over \$78M to advance the Lyle School of Engineering, including endowments of \$6.7M establishing research institutes; \$6.3M endowing faculty; \$10.5M supporting research, including the first endowed research excellence fund at SMU; \$11.5M supporting Entrepreneurship; \$6.8M supporting academic programs and initiatives; and \$8.9M endowing scholarships and graduate fellowships. The fundraising goals for the campaign that began in September 2021 derive from the Lyle School Strategic Plan.
- **Strategic Planning:** Led strategic planning activity with over 90% participation among faculty & staff. “Engineering with Impact,” the Lyle School Strategic Plan (<http://lyle.smu.edu>), focuses on the school’s core values with particular special attention to distinctive differentiation (leadership development, engineering & humanity, and grand challenges). The Future Funds, innovative fundraising opportunities introduced in this plan, are endowments for launching new initiatives in the critical areas of research, entrepreneurship, technologies for social good, and STEM & engineering education. Gap analysis between the current state and the school’s

aspirations total over \$200M. The strategic plan is the guiding document for fundraising for the school for the upcoming capital campaign.

- **Revenue Growth:** Grew revenues from a 6.5% deficit to a 4.5% surplus and built reserves to buffer the post-2018 falloff in international student enrollment. These reserves were critical during the recent pandemic as international students had represented over 60% of the school's revenue.
- **Supporting Diversity, Equity, & Inclusion (DEI):** Strong Ally and Anti-racist supporting DEI by setting expectations and creating a culture resulting in the growth of under-represented minorities and women in faculty, staff, and leadership positions.
 - Created first-ever role of Assistant Dean for Diversity, Equity, and Inclusion.
 - Responded to campus-wide concerns raised through social media by forming a Task Force that facilitated listening sessions and developed specific new programs to ensure the climate in the Lyle School is welcoming and inclusive for all students, staff, and faculty.
 - Organized student leaders to create a peer mentoring program.
 - Addressed identified needs for advancement opportunities and professional development in a summer program for staff and faculty.

The Lyle School's Latinx population has doubled over the past two years. The Black population is above the campus average. The engineering female undergraduate enrollment percentage has been over twice the national average in engineering schools (>30%) for over a decade across all majors.

- The Lyle School was recognized for its plans and achievements in DEI:
 - *Diverse Issues in Higher Education*
Ranked as a Top Producer of STEM Minority Graduate Students 2020 & 2021
Computer Science & Information Services (ranked #39 in 2020 & #42 in 2021)
Engineering (ranked #48 in 2020 & #45 in 2021)
 - Awarded Bronze Level (first and currently the highest level of recognition)
American Society of Engineering Educators (ASEE)
Diversity Recognition Program Jan. 2021
 - Programs Recognized in *INSIGHT into Diversity Magazine* Jul. 2021
Impact Nights Programming in Hunt Institute for Engineering & Humanity,
Hamon Engineering Camps in Caruth Institute for Engineering Education,
She Networks, She Wins, Society of Women Engineers
- **Developing Researchers:** Implemented a novel grantsmanship training program for junior and mid-career faculty. This training consists of a series of workshops focusing on developing relationships with funding agencies prior to the announcement of funding opportunities. The workshops culminate in a group trip to Washington D.C. The faculty development effort, combined with carefully considered new faculty hires, nearly doubled the Lyle School's annual proposals and grant awards. When a local large state university learned of the program from one of our researchers, they initiated it on their campus and continue to use a number of our faculty experts.
- **Strategic Hiring:** Recruited key strategic senior faculty, including three members of the National Academy of Engineering, one National Academy of Education member, and one The Academy of Medicine Engineering & Science of Texas (TAMEST) Edith & Peter

O'Donnell award recipient. Three members of the Lyle School faculty were inducted into the National Academy of Inventors.

- **Multidisciplinary Innovation:** Implemented the National Academy of Engineering Grand Challenge Scholars program. Created four novel multidisciplinary programs:
 - M.A. Design & Innovation (now joint with SMU's Meadows School of the Arts)
 - M.S. Datacenter Systems Engineering (first in the world)
 - M.S. Engineering Entrepreneurship (joint with SMU's Cox School of Business)
 - M.S. / M.B.A (joint with SMU's Cox School of Business)
- **Distance & Online Education:** The in-class experience of all graduate classes are streamed online to students across the globe. Select programs are marketed and packaged with external partners. All Lyle Alumni benefit by having access to view all graduate course content for free (non-transcribed).
- **Campus Leadership:**
 - Chaired successful search for Dean of Simmons School of Education and Human Development. Engaged Simmons Community in a rigorous national search and navigated highly charged situations involving internal candidates.
 - Executive Sponsor for cost-saving/restructuring initiatives during campus-wide activity. Chosen as first Executive Sponsor to head an initiative: Travel Management (undertaken as an early win) and chosen to lead the initiative widely recognized as the most complicated undertaken: Restructuring & Centralizing the Office of Information Technology. The initiatives were completed on schedule and generated ongoing savings of over \$3M annually.

PROFESSIONAL EXPERIENCE

Southern Methodist University	Dallas, Texas
Dean, Lyle School of Engineering	2013-present
Licensed Professional Engineer (TX #114995)	2013-present
Dean <i>ad interim</i> , Lyle School of Engineering	2012-2013
Bobby B. Lyle Endowed Professor of Engineering Innovation	2011-present
Professor with tenure, Department of Electrical Engineering	2010-present
Chair, Department of Electrical Engineering	2007-2012
Associate Professor with tenure, Department of Electrical Engineering	2007-2010
Assistant Professor, Department of Electrical Engineering	2002-2007
George Mason University	Fairfax, Virginia
Adjunct Faculty	2000
Applied Photonics	Fairfax, Virginia
Co-founder and Chief Technology Officer	1998-2002
BDM Federal (bought by TRW, now part of Northrup Grumman)	McLean, Virginia
Associate Staff Member & Technical Leader	1991-1998

BOARD MEMBERSHIPS

Perot Museum of Science & Nature	Dallas, Texas
Member, Nominations & Governance Committee (Board of Directors)	2021-present
Member, Executive Committee (Board of Directors)	2019-2021
Chair, Engagement Committee (Board of Directors)	2018-2021
Member, Engagement Committee (Board of Directors)	2015-2017
Member, Board of Directors	2017-present
Member, Museum Council	2015-2017
Southwest Research Institute	San Antonio, Texas
Member, Board of Advisory Trustees	2017-present

HONORS & AWARDS

Altshuler Distinguished Teaching Professor Award (Outstanding SMU Teacher)	2011
Gerald J. Ford Research Fellowship (Outstanding SMU Researcher)	2008
DARPA Young Faculty Award Recipient (selected from a pool of >150 faculty applicants)	2007
Golden Mustang Award, SMU (Pre-tenure Faculty Teaching Award: SMU).	2007
SEJC Outstanding Faculty, Electrical Engineering Department	2003, 2004, 2010
GMU Graduate Student Award for Distinguished Academic Achievement in ECE (Sole awardee out of 21 ECE Ph.D. candidates)	2001
GMU WebMethods Award for Outstanding Engineering Graduate Student (Sole awardee out of 297 Engineering Ph.D. candidates)	2001

EXTERNALLY FUNDED RESEARCH & GRANTS

Agency	Title	Dates	SMU Award (Total \$15.0M)	Total Award (Total \$21.7M)
DARPA	REVEAL: OMNISCIENT	2/2016-2/2020	\$5,100,000	\$5,100,000
	Phase 1	2/2016-2/2018	\$2,200,000	
	Phase 2	3/2018-2/2020	\$2,900,000	
CFT / RFSW	Joint Innovation Center for Diagnosis and Treatment of Age Related Macular Degeneration	1/2015-12/2017	\$1,000,000	\$2,500,000
DARPA	Neurophotonics Research Center	8/2010-7/2012	\$1,986,342	\$1,986,342
ARL	Hi-Tech Eyes: Biometrics and Active Illumination	8/2010-4/2012	\$1,400,000	\$1,400,000
ONR	PANOPTES for Sea Surveillance, PI Marc P. Christensen, Co-PIs D. Rajan, S. Douglas, P. Papamichalis, P Gui, Subcontract from NG-MS.	9/2007-8/2009	\$315,000	\$1,200,000
DARPA	PHASER: Active Lattice Filter Development, PI Marc P. Christensen, Subcontract from University of Texas at Dallas	2/2007-3/2010	\$274,132	\$1,550,000

Agency	Title	Dates	SMU Award (Total \$15.0M)	Total Award (Total \$21.7M)
DARPA	Young Faculty Award: Active Illumination with Micro-mirror-arrays for Computational Adaptive Multi-resolution Sensing: AIM-CAMS	5/2007-8/2009	\$149,000	\$149,000
ONR	Photonic Phase Lock Loop, PI Marc P. Christensen, Subcontract from University of Texas at Dallas and Drexel University	9/2006-8/2008	\$266,000	\$2,400,000
ARL	High-tech Eyes for the Battlefield, PI Marc P. Christensen, CoPI Dinesh Rajan, Scott Douglas, and Panos Papamichalis	9/2006-12/2011	\$3,685,002	\$3,685,002
NSF	SBIR: Dispersion Guided Photonic Crystal Laser, PI Marc P. Christensen. Subcontract from Photodigm Inc.	9/2005-8/2007	\$25,000	\$500,000
ONR	Lightweight Flat Form Factor Adaptive Imaging Sensor for Convoy and Fleet Protection, PI Marc P. Christensen, CoPI Dinesh Rajan & Scott Douglas	9/2005-8/2006	\$150,000	\$150,000
AFOSR	Quantum Cryptography STTR, PI Marc P. Christensen. Subcontract from Photodigm Inc.	9/2005-6/2006	\$9,987	\$100,000
PTAP	Photonics Technology Assistance Program: Request for 2-D Steerable Micro-mirror Array in Support of PANOPTES, PI Marc P. Christensen	7/2004 Equipment Grant	\$51,000	\$51,000
NRO	Photonic True Time Delay, PI Marc P. Christensen. Subcontract from Photodigm Inc.	7/2004-9/2005	\$29,722	\$350,000
DARPA	Information Optimized Co-design for PANOPTES, PI Marc P. Christensen, CoPI Dinesh Rajan & Scott Douglas	3/2004-12/2005	\$75,000	\$75,000
NSF	Rewarding Achievement and Promoting Success* (PI transfer) PI Marc P. Christensen, CoPI Betsy Willis	9/2003-8/2008	\$385,000	\$385,000
DARPA	Analysis of Irregular Sampling for Information Efficient Sensors, PI Marc P. Christensen, CoPI Dinesh Rajan	7/2003-6/2004	\$100,000	\$100,000

Agency	Title	Dates	SMU Award (Total \$15.0M)	Total Award (Total \$21.7M)
National Defense University	The role of integrated micro-laser array technology in future autonomous networked battlefield sensors, PI Marc P. Christensen	3/2003-2/2004	\$16,887	\$50,000

PATENTS

1. I. Sinharoy, M. P. Christensen, and P. Rangarajan, “Angular focus stacking,” ed: US Patent #10,638,030, 2020.
2. M. P. Christensen and P. Rangarajan, “Imaging hidden objects,” ed: US Patent #10,768,339, 2020.
3. P. Rangarajan, V. R. Bhakta, M. P. Christensen, and P. Papamichalis, “Enhancing imaging performance through the use of active illumination,” ed: US Patent #10,516,874, 2019.
4. M. P. Christensen and P. Rangarajan, “Imaging hidden objects,” ed: US Patent 10,453,211, 2019.
5. P. Rangarajan, V. R. Bhakta, M. P. Christensen, and P. Papamichalis, “Enhancing imaging performance through the use of active illumination,” #9,131,223, 2015.
6. Vikrant Bhakta, Manjunath Somayaji, and Marc P. Christensen, “Applying phase transfer function,” #9,030,594, 2015.
7. Vikrant Bhakta, & Marc P. Christensen, “A Method and Apparatus for Phase Transfer Function Determination,” #8,823,822, September 2014.
8. Prasanna Rangarajan, Vikrant Bhakta, & Marc P. Christensen, “Enhancing imaging performance through the use of active illumination,” #8,665,361, March, 2014.
9. Marc P. Christensen, Predrag Milojkovic, & Michael W. Haney, “Method and Apparatus for Distortion Reduction in Optoelectronic Interconnections,” #6,326,600, December, 2001.
10. Michael W. Haney & Marc P. Christensen, “Optoelectronic Sliding Banyan Network,” #5,467,211, November, 1995.

KEYNOTES, INVITED TALKS, & PANELS

1. M.P. Christensen P. Rangarajan, O. Cossairt, & F. Willomitzer, “Utilizing Spatially Controlled Coherent Illumination to Acquire Spatially Resolved Images of Non-Line-of-Sight Objects,” NATO Panel SET-265 RSM on Compressive Sensing Applications for Radar/ESM and EO/IR Imaging, May 2019.
2. M. P. Christensen and P. Rangarajan, “Active illumination computational imaging for optical super resolution, 3D topography, and indirect imaging,” in SPIE Commercial+ Scientific Sensing and Imaging, 2017, pp. 1022202-1022202-10.
3. M. P. Christensen and P. Rangarajan, “Challenges for the future of imaging: what’s next and where can we draw inspiration from?(Keynote Presentation),” in Emerging Imaging and Sensing Technologies for Security and Defence II, 2017, p. 1043805.
4. M. P. Christensen and P. Rangarajan, “Imaging Beyond the Limits: active imaging for enhancing resolution, 3D information, and indirect imaging,” Invited Talk at Frontiers in Optics, 2016, p. FTh5C. 1.

5. M. P. Christensen “Innovation in Engineering Education Panel,” National Society of Professional Engineers Annual Meeting, June 24, 2016.
6. M. P. Christensen, “The Future,” Keynote Presentation at Huitt-Zollars 40th Anniversary Management Celebration, Oct. 23, 2015.
7. M.P. Christensen, “Innovation in Engineering,” Keynote Presentation at Texas Instruments Technical Conference, Sept. 2, 2015.
8. M. P. Christensen, P. V. Rangarajan, I. Sinharoy, and P. Milojkovic, “Structured Light Optical Super-Resolution: Encoding for Limited Optical Bandwidth,” Invited Talk in Imaging and Applied Optics Technical Papers, Monterey, California, 2012, p. AW3B.1.

EDUCATION FOCUSED PAPERS & PRESENTATIONS

1. Marc P. Christensen, “Innovation & Failure: or how to fail your child,” a 3-minute TED talk at TED India, November, 2009.
2. Nathan Huntoon, Delores Etter, & Marc P. Christensen, “Work In Progress - Introduction to Innovation Modules: A Multi-faceted Approach to Introducing Innovation to Freshman Engineering Students,” *Frontiers in Education*, paper S3F, October (2010).
3. S. C. Douglas, M. P. Christensen, and G. C. Orsak, “Designing Pre-College Engineering Curricula and Technology: Lessons Learned From the Infinity Project,” *Proceedings of the IEEE*, Volume 96, Issue 6, June 2008 Page(s):1035 – 1048.
4. M. P. Christensen, David W. Willis, “Hands-on Interdepartmental Engineering Design Projects for First-Year Students,” *League for Innovation in Community College’s Conference on Information Technology (CIT)*, Dallas, TX, (October 2005).
5. M. P. Christensen, “Robots in the Classroom Can Be Fun and Easy!” *National Council of Teachers of Mathematics (NCTM) Regional Conference*, Hartford, Connecticut, (October 2005).
6. M. P. Christensen, Ted Mahler, “Dancing Robots: Robots in the Classroom can be Fun and Easy,” *Technology Education Professional Development Conference*, Corpus Christi, Texas, (July 2004).

REFEREED JOURNAL PAPERS

1. F. Willomitzer, P.V. Rangarajan, F. Li, M. B Muralidhar, M. P. Christensen, and O. Cossairt, “Fast non-line-of-sight imaging with high-resolution and wide field of view using synthetic wavelength holography,” *Nat Commun* 12, 6647, 2021.
2. I. Sinharoy, P. Rangarajan, and M. P. Christensen, “Geometric model for an independently tilted lens and sensor with application for omnifocus imaging,” *Applied Optics*, vol. 56, pp. D37-D46, 2017.
3. P. Rangarajan, I. Sinharoy, P. Milojkovic, and M. P. Christensen, “Active computational imaging for circumventing resolution limits at macroscopic scales,” *Applied Optics*, vol. 56, pp. D84-D107, 2017.
4. E. Faramarzi, D. Rajan, F. C. Fernandes, and M. P. Christensen, “Blind Super Resolution of Real-Life Video Sequences,” *IEEE Transactions on Image Processing*, vol. 25, pp. 1544-1555, 2016.
5. P. Milojkovic and M. P. Christensen, “Review of multiscale optical design,” *Applied Optics*, vol. 54, pp. 171-183, 2015.

6. A. R Ali, T. Ioppolo, V. Ötügen, M. Christensen, and D. MacFarlane, "Photonic electric field sensor based on polymeric microspheres," *Journal of Polymer Science Part B: Polymer Physics*, vol. 52, pp. 276-279, 2014.
7. E. Faramarzi, D. Rajan, and M. P. Christensen, "Unified Blind Method for Multi-Image Super-Resolution and Single/Multi-Image Blur Deconvolution," *Image Processing, IEEE Transactions on*, vol. 22, pp. 2101-2114, 2013 2013
8. M. Somayaji, M. P. Christensen, E. Faramarzi, D. Rajan, J.-P. Laine, P. Sebelius, A. Zachai, M. Chaparala, G. Blasche, K. Baldwin, B. Ogunfemi, and D. Granquist-Fraser, "Prototype development and field-test results of an adaptive multiresolution PANOPTES imaging architecture," *Applied Optics*, vol. 51, pp. A48-A58, 2012/02/01 2012.
9. M. Somayaji, V. R. Bhakta, and M. P. Christensen, "Experimental evidence of the theoretical spatial frequency response of cubic phase mask wavefront coding imaging systems," *Optics Express*, vol. 20, pp. 1878-1895, 2012/01/16 2012.
10. D. L. MacFarlane, M. P. Christensen, A. E. Nagdi, G. A. Evans, L. R. Hunt, N. Huntoon, J. Kim, T. W. Kim, J. Kirk, T. P. LaFave, L. Ke, V. Ramakrishna, M. Dabkowski, and N. Sultana, "Experiment and Theory of an Active Optical Filter," *Quantum Electronics, IEEE Journal of*, vol. 48, pp. 307-317, 2012.
11. D. L. MacFarlane, M. P. Christensen, K. Liu, T. P. Lafave, G. A. Evans, N. Sultana, T. Kim, J. Kim, J. B. Kirk, and N. Huntoon, "Four-port nanophotonic frustrated total internal reflection coupler," *Photonics Technology Letters, IEEE*, vol. 24, pp. 58-60, 2012.
12. D. L. MacFarlane, M. P. Christensen, L. Ke, T. P. LaFave, G. A. Evans, N. Sultana, T. W. Kim, J. Kim, J. B. Kirk, N. Huntoon, A. J. Stark, M. Dabkowski, L. R. Hunt, and V. Ramakrishna, "Four-Port Nanophotonic Frustrated Total Internal Reflection Coupler," *Photonics Technology Letters, IEEE*, vol. 24, pp. 58-60, 2012.
13. V. R. Bhakta, M. Somayaji, and M. P. Christensen, "Applications of the phase transfer function of digital incoherent imaging systems," *Applied Optics*, vol. 51, pp. A17-A26, 2012/02/01 2012.
14. P. Rangarajan, V. R. Bhakta, I. Sinharoy, M. Somayaji, and M. P. Christensen, "Space-Variant Optical Super-Resolution using Sinusoidal Illumination," *Computational Optical Sensing and Imaging*, p. CWA5, 2011.
15. A. El Nagdi, K. Liu, T. P. LaFave, L. R. Hunt, V. Ramakrishna, M. Dabkowski, D. L. MacFarlane, and M. P. Christensen, "Active integrated filters for RF-photonic channelizers," *Sensors*, vol. 11, pp. 1297-1320, 2011.
16. V. R. Bhakta, M. Somayaji, and M. P. Christensen, "Effects of sampling on the phase transfer function of incoherent imaging systems," *Optics Express*, vol. 19, pp. 24609-24626, 2011/11/21 2011.
17. V. R. Bhakta, M. Somayaji, S. C. Douglas, and M. P. Christensen, "Experimentally validated computational imaging with adaptive multiaperture folded architecture," *Applied Optics*, vol. 49, pp. B51-B58, 2010/04/01 2010.
18. S. L. Wood, S.-T. Lee, G. Yang, M. P. Christensen, and D. Rajan, "Impact of measurement precision and noise on superresolution image reconstruction," *Applied Optics*, vol. 47, pp. B128-B138, 2008/04/01 2008.
19. T. Mirani, D. Rajan, M. P. Christensen, S. C. Douglas, and S. L. Wood, "Computational imaging systems: joint design and end-to-end optimality," *Applied Optics*, vol. 47, pp. B86-B103, 2008/04/01 2008.
20. N. R. Huntoon, M. P. Christensen, D. L. MacFarlane, G. A. Evans, and C. S. Yeh, "Integrated photonic coupler based on frustrated total internal reflection," *Applied Optics*, vol. 47, pp. 5682-5690, 2008/10/20 2008.

21. N. A. El-Yamany, P. E. Papamichalis, and M. P. Christensen, "Adaptive framework for robust high-resolution image reconstruction in multiplexed computational imaging architectures," *Applied Optics*, vol. 47, pp. B117-B127, 2008/04/01 2008.
22. S. C. Douglas, M. P. Christensen, and G. C. Orsak, "Designing Pre-College Engineering Curricula and Technology: Lessons Learned From the Infinity Project," *Proceedings of the IEEE*, vol. 96, pp. 1035-1048, 2008.
23. J. Tong, D. L. MacFarlane, I. Panahi, L. R. Hunt, G. Kannan, G. A. Evans, and M. P. Christensen, "Direct form I realization of active photonic filters," *Fiber and integrated optics*, vol. 26, pp. 201-215, 2007.
24. M. Somayaji and M. P. Christensen, "Improving photon count and flat profiles of multiplex imaging systems with the odd-symmetric quadratic phase modulation mask," *Applied Optics*, vol. 46, pp. 3754-3765, 2007/06/20 2007.
25. M. Somayaji and M. P. Christensen, "Frequency analysis of the wavefront-coding odd-symmetric quadratic phase mask," *Applied Optics*, vol. 46, pp. 216-226, 2007/01/10 2007.
26. J. Tong, J. K. Wade, D. L. MacFarlane, S. Hanxing, S. McWilliams, G. A. Evans, and M. P. Christensen, "Active integrated photonic true time delay device," *Photonics Technology Letters, IEEE*, vol. 18, pp. 1720-1722, 2006.
27. M. Somayaji and M. P. Christensen, "Enhancing form factor and light collection of multiplex imaging systems by using a cubic phase mask," *Applied Optics*, vol. 45, pp. 2911-2923, 2006/05/01 2006.
28. P. Milojkovic, M. P. Christensen, and M. W. Haney, "Trade-offs between lens complexity and real estate utilization in a free-space multichip global interconnection module," *Journal of the Optical Society of America A*, vol. 23, pp. 1787-1795, 2006/07/01 2006.
29. H.-B. Lan, S. L. Wood, M. P. Christensen, and D. Rajan, "Benefits of optical system diversity for multiplexed image reconstruction," *Applied Optics*, vol. 45, pp. 2859-2870, 2006/05/01 2006.
30. T. Constantinescu, V. Ramakrishna, N. Spears, L. R. Hunt, J. Tong, I. Panahi, G. Kannan, D. L. MacFarlane, G. Evans, and M. P. Christensen, "Composition methods for four-port couplers in photonic integrated circuitry," *Journal of the Optical Society of America A*, vol. 23, pp. 2919-2931, 2006/11/01 2006.
31. M. P. Christensen, V. Bhakta, D. Rajan, T. Mirani, S. C. Douglas, S. L. Wood, and M. W. Haney, "TASK-SPECIFIC SENSING-Image Reconstruction-Adaptive flat multiresolution multiplexed computational imaging architecture utilizing micromirror arrays to steer subimager fields of view," *Applied Optics*, vol. 45, pp. 2884-2892, 2006.
32. M. P. Christensen, V. Bhakta, D. Rajan, T. Mirani, S. C. Douglas, S. L. Wood, and M. W. Haney, "Adaptive flat multiresolution multiplexed computational imaging architecture utilizing micromirror arrays to steer subimager fields of view," *Applied Optics*, vol. 45, pp. 2884-2892, 2006/05/01 2006.
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36. M. P. Christensen, M. W. Haney, D. Rajan, S. Wood, and S. Douglas, "Panoptes: A thin agile multi-resolution imaging sensor," Government Microcircuit Applications and Critical Technology Conference (GOMACTech-05), Las Vegas, Nev, pp. 4-7, 2005.
37. S. L. Wood, D. Rajan, M. P. Christensen, S. C. Douglas, and B. J. Smithson, "Resolution improvement for compound eye images through lens diversity," Digital Signal Processing Workshop 2004 and the Third IEEE Signal Processing Education Workshop, pp. 151-155, 2004.
38. S. Wood, M. Christensen, and D. Rajan, "Reconstruction algorithms for compound eye images using lens diversity," Defense Applications of Signal Processing 2004 Workshop, Midway Utah, vol. 27, 2004.
39. J. N. Mait, M. M. Haney, K. W. Goossen, and M. P. Christensen, "Shedding light on the battlefield: tactical applications of photonic technology," Defense and Technology Papers, vol. 1, 2004.
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2. S. Wood, M. P. Christensen, S. Douglas, J. Treichler, *Laboratory Manual: Engineering Our Digital Future*, Pearson Prentice Hall, Upper Saddle River, NJ, USA 2004.

MEMBERSHIP IN SCIENTIFIC AND PROFESSIONAL SOCIETIES

Institute of Electrical and Electronics Engineers (IEEE), Senior Member
IEEE Lasers and Electro-optics Society (IEEE/LEOS), Senior Member
IEEE Communications Society (IEEE/COMSoc), Senior Member
Optical Society of America (OSA), Senior Member
American Society of Engineering Educators (ASEE), Member
Global Engineering Deans Council (GEDC), Member
National Society of Black Engineers (NSBE), Member
Society of Professional Hispanic Engineers (SHPE), Member
Society of Women Engineers (SWE), Member
American Physics Society, Member

INSTITUTIONAL SERVICE

2017 Chair, Simmons School of Education & Human Development Dean Search Committee.
2015 Executive Sponsor & Chair, Information Technology initiative, Operational Excellence for the Second Century.
2014-2015 Executive Sponsor & Chair, Travel & Expense initiative, Operational Excellence for the Second Century.
2014-2015 Member, Steering Committee, Operational Excellence for the Second Century
2011-2013 SMU Academy of Distinguished Teachers, conduct CTE faculty evaluations.
2012-present Faculty Associate, Tower Center for Political Studies, SMU
2010-2012 Co-Chair, President's Committee for Faculty & Staff Participation in Unbridled Campaign
2009-2010 Member, President's Committee for Faculty & Staff Participation in Unbridled Campaign
2009-2011 Chair, Committee for Research Policy (AVP for Research level committee).
2007-2011 Theta Tau Advisor
2006-2007 School of Engineering Strategic Plan committee (Dean's level committee)
2004-2007 Engineering Research Development Council member (Dean's level committee)
2007-2008 SMU Robotics Club Faculty Advisor
2004 SMU BEST Robotics Activity Advisor
2003 Mustang Corral Faculty Mentor (entire weekend)
2002-2006 EE Laboratory Committee member
2004-2006 EE Undergraduate Curriculum Committee member
2003-2006 Eta Kappa Nu Faculty advisor.
2004 Seminar Speaker at Affiliates Day, Electrical Engineering Department
2004-2005 Seminar Speaker at Dallas ISD summer camp
2003-2004 Seminar Speaker at Homecoming Engineering Event

PROFESSIONAL SERVICE

- 2004-2021 Computational Optical Sensors and Imagers (COSI) OSA Topical Meeting Program Committee.
- 2017 Conference Chair, Computational Optical Sensors and Imagers (COSI) OSA Topical Meeting.
- 2016 Program Chair, Computational Optical Sensors and Imagers (COSI) OSA Topical Meeting.
- 2007-2010 Topical Editor for Imaging Science, *Journal of the Optical Society of America A (JOSA A)*.
- 1995–2007 Program Committee for IEEE/LEOS Workshop on Interconnections within High-Speed Digital systems. (2001 Program Chair, 2002 Workshop Chair)
Actively contributing committee member for 13 years.
- 1997–2007 Reviewer for Applied Optics, Optics Letters, & Proceedings of the IEEE.
- 2002-2005 Physical Systems for Information Processing Chair, in the Optical Society of America's Information Processing Division. (responsibilities include organizing symposia at OSA annual meeting, Optics in Computing Topical meeting, and the Conference on Lasers and Electro-Optics).
- 2003-2004 Photonics Track Co-chair for American Society for Mechanical Engineers International Packaging Conference (Interpack `03)
- 2002 Invited seminar speaker at Texas Instruments.
- 2001, 2002 Proposal review panel member for National Science Foundation SBIR Phase I (2001) and II (2002) projects.
- 1999 Invited seminar speaker at NSA's Laboratory for Physical Sciences.
Invited seminar speaker at Intel.
- 1999 Member of program committee: Parallel Interconnects `99.