

**TILANKA CHANDRASEKERA, Ph.D.**

**Assistant Professor**

Department of Design, Housing and Merchandising  
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**Degrees**

**Ph.D. (2015)**

Department of Architectural Studies, University of Missouri-Columbia (MU)

Research Emphasis: Design with Digital Media/Architecture

Dissertation: *The effect of Augmented Reality and Virtual Reality interfaces on Epistemic Actions and the Creative Process*

Advisor: Dr. So-Yeon Yoon (Cornell University)

**M.Sc. (2007)** - Recognized by the Royal Institute of British Architects (RIBA Part II)

Architecture, Department of Architecture, University of Moratuwa, Sri Lanka

Thesis Project: IT Exploratorium, Sri Lanka (Commended Pass)

Dissertation: Liquid Architecture: Hypersurface as an Architectural Idiom (Highly Commended Pass/Highest marks obtained for 2007)

**B.Sc. (2004)** - Recognized by the Royal Institute of British Architects (RIBA Part I)

Built Environment, Department of Architecture, University of Moratuwa, Sri Lanka

Thesis Project: Community Health Center, Colombo-Sri Lanka

Dissertation: A study on the inward orientation of the Sri Lankan urban house with reference to the factors and language used in achieving introversion

**Diploma in Computer Science (2000)**

London Business School (Affiliated with the Wigan & Leigh College, UK), Sri Lanka

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**Employment History**

**Teaching/Academic positions**

**Assistant Professor**, Department of Design, Housing and Merchandising,

Oklahoma State University (2013-Present),

Interior Design Internship Coordinator

Primary Collaborator and Founder-Mixed Reality Lab, OSU

**Graduate Instructor**, Department of Architectural Studies,

University of Missouri (2010-2013)

**Graduate Research Assistant**, Department of Architectural Studies,  
University of Missouri (2010-2013)

**Part time Lecturer and Design Tutor**, Department of Architecture, University of Moratuwa,  
Sri Lanka (2009)

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**Professional Employment**    **Architect**, Surath Wickramasinghe Associates, Sri Lanka (Jan. 2009-Jul.2009)

**Architect**, Design Group Five International, Sri Lanka (Jul. 2007-Jan 2009)

**Junior Architect**, Sunil Gunawardena Associates, Sri Lanka (Jul. 2003-Sep.2005)

**Consultant**, German Technical Cooperation (THSP), Sri Lanka.( Dec. 2005-Jul.2007)

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**Awards/Honors**

- Nominated for Regents Distinguished Teaching Award 2018
- Award for Excellence (Merit Award): The Council for Interior Design Accreditation (CIDA) -2017
- Highly Commended paper award (FARU Conference, Sri Lanka, 2017)
- RIATA Faculty Fellowship (Oklahoma State University)-2017/18
- Campus Technology Innovators Award Honorable Mention (Mixed Reality Lab)-2016
- Award for Excellence (Honorable Mention): The Council for Interior Design Accreditation (CIDA) -2015
- Future visions leader in Interior Design Education: The Council for Interior Design Accreditation (CIDA) -2014
- Innovative Education Award: The Council for Interior Design Accreditation (CIDA) - 2013
- Excellence in Teaching with Technology Award: University of Missouri-Columbia-2012
- King Medal for Excellence in Architectural & Environmental Design Research: ARCC (Architecture Research Centers Consortium) -2012
- EDRA Student Scholarship: Environmental Design Research Association Conference, Providence-2013
- Center for the Digital Globe Graduate Student Grant -2012 (\$500 Travel grant awarded by the CDiG, University of Missouri, Columbia)
- Scholarship: Design Management Institute international research conference "Leading Innovation through Design"-Boston, MA (Aug 8-9, 2012)
- Marcia W. Healy & Robert N. Healy Graduate Scholarship Award-2011/12 (\$2,000 Scholarship awarded by the University of Missouri, Columbia)
- Adeline M. Hoffman Graduate Award-2009 (\$10,000 Scholarship awarded by the University of Missouri, Columbia)
- Sri Lanka Institute of Architects Award of Excellence -2008 (Best overall performance by a student)
- Dr. Justin Samarasekera Award -2008 (M. Sc. Dissertation Award)
- Sri Lanka Institute of Architects Award-2008 (Highest total marks at the M. Sc. final examination.)

## Publications

### Peer reviewed Journal Publications

- Chandrasekera, T., Hebert, P., (2018) Emergency Preparedness in the Hospitality Industry in Sri Lanka, International Journal of Disaster Resilience in the Built Environment (Under review)
- Chandrasekera, T., & Yoon, S. Y. (2018). The Effect of Augmented and Virtual Reality Interfaces in the Creative Design Process. International Journal of Virtual and Augmented Reality (IJVAR), 2(1), 1-13.
- Chandrasekera, T., & Yoon, S. (2018). Augmented Reality, Virtual Reality and their effect on learning style in the creative design process. Design and Technology Education: An International Journal, 23(1), 55-75.
- Siamionava, K., Slevitch, L., Chandrasekera, T., (2017) Application of Virtual Visualization Tools in Hospitality Environments, International Journal of Electronic Engineering and Computer Science, Vol.2, No.4, Nov. 2017, Pages: 23-27.
- Chandrasekera, T., Kang, M., Hebert, P., & Choo, P. (2017). Augmenting space: Enhancing health, safety, and well-being of older adults through hybrid spaces. Technology and Disability, 29(3), 141-151.
- Siamionava, K., Slevitch, L., Chandrasekera, T., (2017) Understanding the Effects of Spatial Colors on Perceptions of a Hotel Room from a Cultural Perspective, American Journal of Business and Society, Vol. 3, No. 5, 2017, pp. 45-54
- Chandrasekera, T., Krishnamurthy, K., (2016) An Augmented Reality Model Sharing Platform for Virtual Design Critiques, International Journal of Electronic Engineering and Computer Science, Vol.1, No.2, Oct. 2016, Pages 40-43
- Chandrasekera, T., Yoon, S. Y., & D'Souza, N. (2015). Virtual environments with soundscapes: a study on immersion and effects of spatial abilities. Environment and Planning B: Planning and Design, 42, 000-000.
- Chandrasekera, T., Yoon, S.-Y (2015) Adopting Augmented Reality in Design Communication: Focusing on Improving Spatial Abilities, The International Journal of Architectonic, Spatial, and Environmental Design, Volume 9, Issue 1, March 2015, Pages 1-14
- Chandrasekera, T. (2015) towards an online based design critique framework for design education, International Journal of Education and Information Technology, Volume 1, Issue 3, June 2015, Pages 61-69
- Chandrasekera, T. (2015) Rejuvenating Dysfunctional Public Spaces Using Augmented Reality Systems (ARS), American Journal of Mobile Systems, Applications and Services, Volume 1, Issue 1, July 2015, Pages 64-76
- Chandrasekera, T. (2014) Using Augmented Reality Prototypes in Design education, Design and Technology Education: An International Journal, Volume 19, Issue 3, November 2014, Pages 33-42
- Chandrasekera, T., Vo, N., D'Souza, N (2013), The effect of subliminal suggestions on Sudden Moments of Inspiration [SMI] in the design process, Design Studies, Volume 34, Issue 2, March 2013, Pages 193-215

### Publications in Development

- Chandrasekera, T., Post disaster housing satisfaction survey: A case study of a tsunami village in Sri Lanka
- Chandrasekera, T., Virtual to the physical: 3D printing in Interior Design education

### Other Publications

- Chandrasekera, T. (2017) Designing for Diversity: Understanding Diversity through the Empathic Design Process, IDEC Exchange, Fall 2017
- Chandrasekera, T. , Pulay, A.(2016) Design Interventions Through Immersive Virtual Environments, IDEC Exchange, Fall 2016
- Chandrasekera, T. (2016) Mixed Reality Lab: Interior Design Matters on Teaching, Research and Community Outreach, IDEC Exchange, Spring 2016
- Chandrasekera, T., Yoon, S-Y (2015) Digital Prototyping in Interior Design: A Case Study in Interior Design Education, IDEC Exchange, Spring 2015

### Peer reviewed full paper publications in conference proceedings

- Mejia Puig, L., Arango, H., **Chandrasekera, T.** (2018) Unexpected Discoveries and their Enhancement of the Design Process, International Conference on Engineering & Product Design Education, London UK, Sept. 6-7, 2018.
- Chandrasekera, T., Hebert, P., (2017) Emergency Preparedness in the Hospitality Industry in Sri Lanka, Faculty of Architecture Research Unit (FARU) Annual Conference, Sri Lanka. Dec 7-8, 2017
- Chandrasekera, T., & Yoon, S. Y. (2015, September). The Effect of Tangible User Interfaces on Cognitive Load in the Creative Design Process. In Mixed and Augmented Reality-Media, Art, Social Science, Humanities and Design (ISMAR-MASH'D), 2015 IEEE International Symposium on Mixed and Augmented Reality (pp. 6-8). IEEE.
- Chandrasekera, T., Yoon, S.-Y., (2014). The effect of Virtual Reality and Augmented Reality in the Design Process., 17th Biannual Conference of the Design Communication Association, Atlanta, Georgia. Oct. 1-4, 2014
- Chandrasekera, T., Yoon, S.-Y., & D'Souza, N. (2013). The effect of soundscapes on auditory landmarks in immersive virtual environments, First International Symposium on Affective Engineering 2013 (ISAE2013), March 6 -March 8, 2013, Fukuoka, Japan.
- Chandrasekera, T., Yoon, S.-Y., & Balakrishnan, B. (2012). Digital Orthographic Projections in Architectural Representation: Augmented Reality based learning, 16th Biannual Conference of the Design Communication Association, Stillwater, Oklahoma. Oct. 21-24, 2012
- Ahmed, A\*, Chandrasekera, T\*, Yang, C (2010) The Effect of Spatial Knowledge on Sense of Belonging in University Environments, The 2011 Annual Architectural Research Centers Consortium Spring Research Conference, Detroit, Michigan. April 20 – 24, 2011 \*Co-Author
- Chandrasekera, T., Yoon, S.-Y., & D'Souza, N. (2010). The Effect of Soundscapes on Immersive Experience in Virtual Environments, 15th Biannual Conference of the Design Communication Association, Bozeman, Montana. Sept. 8-11, 2010.

### Peer reviewed abstracts, short papers and presentations in symposia and conferences

- Hebert, P. R., Jayadas, A., **Chandrasekera, T.** & Chaiyakul, Y. (2018) “No tech to low tech to high tech!” Luminaire designs inspire.” International Association of Lighting Designers (IALD) Enlighten Europe 2018, November 7-9, 2018, Barcelona, Spain.
- Hebert, P. R., Jayadas, A., **Chandrasekera, T.** & Chaiyakul, Y. (2018) “Students' low energy luminaire design projects.” Passive and Low Energy Architecture Conference (PLEA) 2018 December 10-12, 2018, Hong Kong.
- Chandrasekera, T., Ferreira, A., Hebert, P., (2018) Embracing Technology: Using 3D Scanned Museum Collections in Interior Design Education. Environmental Design Research

Association conference 2018, Oklahoma City. Jun 6-9, 2018.

- Chandrasekera, T., Jayadas, A., Pulay, A., Ippoliti, C., Mejia Puig, L. (2018) Symposium presentation at “Problem Solving in Multidisciplinary Teams through Digital Media”, Environmental Design Research Association conference 2018, Oklahoma City. Jun 6-9, 2018.
- Hebert, P., Jayadas, A., **Chandrasekera, T.**, (2018) Light reveals the built environment: A pictorial sample of students' lighting fixture design projects, Western Social Studies Association , Urban Studies Section Conference, San Antonio, TX, April, 4 – 7, 2018.
- Pulay, A., Asino, T., & **Chandrasekera, T.**, (2018, March). A Pilot Study Examining Student Opinions of Classroom Furniture for Collaborative Technology Use. Presentation at the Annual Conference of the Interior Design Educators Council. Boston, MA.
- Asino, T., Pulay, A., & **Chandrasekera, T.**, (2017, November). Examining the connection between educational technologies and classroom space. Association for Educational Communications & Technology, Jacksonville, FL.
- Chandrasekera, T., (2017) Tsunami Housing Villages: A post occupancy evaluation, Sri Lanka Association for the Advancement of Science (SLAAS) Annual Conference, Colombo, Sri Lanka. Dec 4-7, 2017
- Pulay, A., Tripp, A., Asino, T., & **Chandrasekera, T.**, (2017). Teacher attitudes about their classroom environment. Southwest Regional Conference of the Interior Design Educators Council, Dallas, TX., October 5-6 2017,
- Chandrasekera, T., Hebert, P.,(2017). Crisis Management: A Study of Emergency Preparedness in the Global Hospitality Industry, International Facility Management Association, World Workplace Conference, Houston, 2017
- Chandrasekera, T., (2017). Using Immersive Virtual Reality in Design reviews, Interior Design Educators Council, Chicago, IL, March 8-12, 2017.
- Chandrasekera, T., (2017) Mixed Reality Lab: Using affordable Virtual Reality and Augmented Reality environments in research and education, Second International Conference on Multidisciplinary Research 2017, Colombo, Sri Lanka. 07-08 January-2017.
- Hebert, P. R. **Chandrasekera, T.**, Jacobs-Grey, N., (2017) Querying Facility Managers in India's Hospitality Industry, Second International Conference on Multidisciplinary Research 2017, Colombo, Sri Lanka. 07-08 January-2017.
- Chandrasekera, T., (2016). Furniture Designing within the Virtuality-Reality Continuum, Interior Design Educators Council, Portland, Oregon, March 9-12, 2016.
- Chandrasekera, T., Yoon, S.-Y., (2015).Virtuality to Reality: Furniture Designing through Digital Prototyping, Interior Design Educators Council, Fort Worth, Texas, March 11-14, 2015.
- Slevitch, L., **Chandrasekera, T.**, Yang, J., Chung, Y., (2015) Application of virtual visualization techniques in understanding users' perceptions of lodging interior environments, Asia-Pacific Council on Hotel, Restaurant, and Institutional Education Conference, New Zealand, June 10-13, 2015
- Chandrasekera, T., Yoon, S.-Y., (2014). The effect of Virtual Reality and Augmented Reality in the Design Process., 17th Biannual Conference of the Design Communication Association, Atlanta, Georgia. Oct. 1-4, 2014
- Chandrasekera, T., Jacobs, N., (2014) A decade after: Post Occupancy evaluation of houses in tsunami affected areas in the Southern Region of Sri Lanka, 48<sup>th</sup> Annual Housing Education and Research Association Conference, Kansas City, KS, 6-8 October, 2014.
- Chandrasekera, T., Jacobs, N., (2014) Using virtual models and digital fabrication in early Design Studios, 48<sup>th</sup> Annual Housing Education and Research Association Conference,

Kansas City, KS, 6-8 October, 2014.

- Chandrasekera, T (2013) Reality-Virtuality Continuum and the place of the Designer: Designing with Digital Media, 47<sup>th</sup> Annual Housing Education and Research Association Conference, Tulsa, OK, 27-30 October, 2013.
- Chandrasekera, T., Yoon, S.-Y (2014) Adopting Augmented Reality in Design Communication: Focusing on Improving Spatial Abilities, The 7th International Conference on Design Principles and Practices, UBC Robson Square, Vancouver, Canada, 16-18 January 2014.
- Chandrasekera, T., Yoon, S.-Y., & D'Souza, N. (2013). The effect of soundscapes on auditory landmarks in immersive virtual environments, First International Symposium on Affective Engineering 2013 (ISAE2013), March 6 -March 8, 2013, Fukuoka, Japan.
- Chandrasekera, T., Yoon, S.-Y., (2013) Augmented reality based spatially related navigation system for internal navigation of healthcare environments, Environmental Design Research Association conference 2013, Providence. May 29-Jun 01, 2013. (Accepted Paper)
- Chandrasekera, T., Yoon, S.-Y., & Balakrishnan, B. (2012). Digital Orthographic Projections in Architectural Representation: Augmented Reality based learning, 16th Biannual Conference of the Design Communication Association, Stillwater, Oklahoma. Oct. 21-24, 2012.(Accepted Abstract)
- Chandrasekera, T., Yoon, S.-Y., (2012) Perceiving geometric configurations in digital environments: A study on the use of Virtual Reality (VR) and Augmented Reality (AR) in design education, Environmental Design Research Association conference 2012, Seattle. May 30-Jun 02, 2012. (Accepted Abstract)
- Chandrasekera, T., Ngoc, Vo., D'Souza, N. (2012). Game Changers: Sudden moments of Inspiration (SMI) in the Design process, Environmental Design Research Association conference 2012, Seattle. May 30-Jun 02, 2012. (Accepted Abstract)
- Chandrasekera, T (2012). Application of augmented reality and virtual reality in architectural Drafting studios, Research and Creative Activities Forum, University of Missouri-Columbia, Mar 17, 2012. (Research presentation)
- Chandrasekera, T., Yoon, S.-Y., & D'Souza, N. (2011). The Effect of Soundscapes on Immersive Experience in Virtual Environments, Environmental Design Research Association conference 2011, Chicago. May25-29 2011.
- D'Souza, N., Yoon, S.-Y., Balakrishnan, B., & **Chandrasekera, T.**, Symposium presentation at "Virtual Environments - Virtual Behaviors", Environmental Design Research Association conference 2011, Chicago. May25-29 2011.
- Ahmed, A, **Chandrasekera, T**, Yang, C (2010) The Effect of Spatial Knowledge on Sense of Belonging in University Environments, The 2011 Annual Architectural Research Centers Consortium Spring Research Conference, Detroit, Michigan. April 20 – 24, 2011
- Chandrasekera, T., Yoon, S.-Y., & D'Souza, N. (2010). The Effect of Soundscapes on Immersive Experience in Virtual Environments, 15th Biannual Conference of the Design Communication Association, Bozeman, Montana. Sept. 8-11, 2010.
- Chandrasekera, T (2011). Using Soundscapes in Virtual Environments, Research and Creative Activities Forum, University of Missouri-Columbia, Mar 5, 2011. (Research presentation)
- Chandrasekera, T (2011). The effect of Subliminal Suggestions on Sudden Moments of Inspiration (SMI) in the design process., Research and Creative Activities Forum, University of Missouri-Columbia, Mar 5, 2011. (Research presentation)

### **Peer reviewed poster presentations in conferences and symposia**

- Hebert, P., **Chandrasekera, T.**, and Sample, R. (2017) "3-D scanning supplement project for Frank Lloyd Wright artifacts: Increasing university and community access to a University collection", Mountains and Plains Museum Association Conference, Denver, CO, October 15-19, 2017.
- Hebert, P. R., Chaiyakul, Y., Aruni, N., Jaruphongtawit, R., Tongpong, N. & **Chandrasekera, T.** (2017). "Evaluating Illumination at an Art and Culture Museum in Thailand Targeted for Patrons Across the Life Course: Recent Fulbright Project Spurs U.S. & Thai Architecture and Design Programs' International Collaboration", Mountains and Plains Museum Association Conference, Denver, CO, October 15-19, 2017.
- Hebert, P., **Chandrasekera, T.**, Chaiyakul, Y., Rojarek, S. (2017) Food Safety Study at Facilities in Northern Thailand. Health Disparities Conference, New Orleans, LA. March 16-18, 2017
- Chandrasekera, T., Kang, M., Hebert, P. R., Choo, P. (2016) Augmented Reality based object locating and information system mobile application for individuals suffering from disabilities, Environmental Design Research Association Conference 2016, Raleigh, NC. 18-21 May 2016.
- Hebert, P. R. **Chandrasekera, T.** & Kang, M. (2015). "Faculty and Students Benefit the Smithsonian: Querying Facility Managers", Eighth Annual Oklahoma Service Learning Conference, Oklahoma City, Oklahoma, (Juried), October, 2015
- Chandrasekera, T., Yoon, S.-Y (2014) Using augmented reality tools to enhance design creativity, Environmental Design Research Association Conference 2014, New Orleans, 28-31 May 2014.
- Chandrasekera, T., Yoon, S.-Y., & D'Souza, N. (2012) Architectural Visualization using Augmented Reality Simulations, Environmental Design Research Association conference 2013, Providence. May 29-Jun 01, 2013. (Accepted Poster)
- Chandrasekera, T (2012). A Design for Intelligence: Augmented reality as a tool in early Architectural education, Design Management Institute (DMI) international research conference "Leading Innovation through Design"-Boston, MA-USA, Aug8-9, 2012 (Accepted Poster)
- Chandrasekera, T., Yoon, S.-Y., & D'Souza, N. (2012) Immersive Engines: Immersion in 3D Gaming platforms through Soundscapes, Environmental Design Research Association conference 2012, Seattle. May 30-Jun 02, 2012. (Accepted Poster)

### **Non peer reviewed abstracts, papers and poster presentations**

- Chandrasekera, T (2012). Enhancing creativity through spatial abilities: The effect of using new media in Architectural Education, "Inspired! Facilitating Student Creativity: Panel and Poster Session" Organized by the Creativity Workshop Committee, University of Missouri-Columbia, Columbia-USA, Oct 19, 2012 (Accepted Poster)
- Chandrasekera, T (2012). Revamping Architectural Drafting Studios using New media, HES Week poster session, University of Missouri-Columbia, March 23rd, 2012. (Poster presentation)
- Chandrasekera, T (2011). Using Soundscapes in Virtual Environments, HES Week poster session, University of Missouri-Columbia, April 07th, 2011. (Poster presentation)
- Chandrasekera, T (2011). The effect of Subliminal Suggestions on Sudden Moments of Inspiration (SMI) in the design process. HES Week poster session, University of Missouri-Columbia, April 07th, 2011. (Poster presentation)

- Chandrasekera, T (2008), Liquid Architecture: The dynamism in digital Architecture, Faculty of Architecture Research Unit [FARU] Conference, Colombo, Sri Lanka. Nov. 16, 2008.(Unpublished conference presentation)
- Chandrasekera, T (2008). Cost effective housing for tsunami affected areas in Sri Lanka, World Habitat day Exhibition, Colombo- Sri Lanka, 2008
- Chandrasekera, T (2008). Presentation of Student work display panels, Architect 2008 (annual exhibition and conference), Colombo- Sri Lanka, Organized by the Sri Lanka Institute of Architects, 2008
- Chandrasekera, T (2006). Cost effective housing for tsunami affected areas in Sri Lanka, Tsunami Housing Exhibition, Sri Lanka Institute of Architects, Colombo- Sri Lanka, Organized jointly by the University of Moratuwa-Sri Lanka and Colombo School of Architecture, 2006

#### Other Invited Presentations

- **Mandela Fellows Session Facilitator** at the Mixed Reality Lab, Applications within the Reality–virtuality continuum, Oklahoma State University, July 5, 2017
- **Invited Speaker**, Emerging Virtual & Augmented Reality Technology use, Business & Industry Services, Meridian Technology Center, June 21, 2017
- **Session Facilitator and Presenter**, Using Mixed Reality Environments to Enhance Education, Teaching with Technology Symposium Session, June 28, 2017, Oklahoma State University
- **Panelist and Guest Speaker**, Mixed Reality Lab: Reality–Virtuality continuum and its implications in Design, “Insert Tech Here”, Oklahoma State University (Research Week),February 22, 2017.
- **Key note speaker** (and session Chair)- Second International Conference on Multidisciplinary Research 2017, “*Designing future cities - Challenges & Opportunities*”, 07-08 January-2017, Colombo, Sri Lanka (Organized by the International Center for Research & Development)
- **Guest Lecture** – “*Empathic Design*”, Colombo School of Architecture, Sri Lanka, Jan 6, 2017.
- **Invited Speaker**, Science Café “*Digital Modeling and Fabrication*”, Edmond Low Library, Oklahoma State University, Jan 9-2016.
- **Invited Presentation**, “*Designing with Digital Media*”.Council for Interior Design Accreditation, Interior Design Educators Council, Fort Worth, Texas, March 11-14, 2015.
- **Guest Speaker**-“*Augmented Reality in Design Education*”, Augmented Reality Expo 2014, Santa Clara, CA. May 27-29, 2014.
- **Guest Lecture** – “*Digital Design Representation*”, Department of Architecture, University of Moratuwa, Sri Lanka, Jun 8, 2014.
- **Guest Presenter**-“*Designing with Digital Media*”. 4-H Roundup, Stillwater, OK, July 24, 2014.
- **Invited Speaker**- “*Augmenting the Designer: Design Education within the Reality - Virtuality Continuum*”, Augmented Reality Think Tank, Plano, Texas, Oct. 20-21, 2014.
- **Invitee** – (Out of the 17 invitees, US wide) CIDA Future Visions, Grand Rapids, MI, Nov 6-8, 2014
- **Invitee** – Next Generation Informal Assessment workshop, July 20-22, 2015 at the New York Hall of Science(NYSCI): Funded by NSF



## Press/Media

- Campus Technology. (2016). *Mixing It Up in the Design Lab: The Virtuality-Reality Continuum* [Press Release]. Retrieved from <https://campustechnology.com/articles/2016/04/19/the-virtuality-reality-continuum-in-design.aspx>
- Campus Technology. (2016). *Mixed Reality: From the Design Lab to the Professions* [Press Release]. Retrieved from <https://campustechnology.com/articles/2016/11/15/mixed-reality-from-the-design-lab-to-the-professions.aspx>
- Ostate TV segment (2017). *Mixed Reality Lab: Using Technology to Become Better Designers*. Retrieved from <https://www.ostate.tv/?play=XqZRDS4ZEn9B63sehbKzikMcK25zwxBD>
- Ostate TV segment (2017). *Inside OSU with Burns Hargis: Mixed Reality Lab*. Retrieved from <http://ostate.tv/?play=dh4JYuemsk8JK7TKACxb4K1bB2qz5bTz>
- Stillwater Newspress (2017) *Mixed Reality Lab puts focus on the future*, retrieved from [http://www.stwnewspress.com/news/mixed-reality-lab-puts-focus-on-the-future/article\\_6aebc626-e2e9-5dd9-a17d-7661e14ab1ef.html](http://www.stwnewspress.com/news/mixed-reality-lab-puts-focus-on-the-future/article_6aebc626-e2e9-5dd9-a17d-7661e14ab1ef.html)
- Stillwater Newspress (2018) *Experimenting with the future*, retrieved from [http://www.stwnewspress.com/news/experimenting-with-the-future/article\\_b9e5ea45-ddb7-5ba9-a4a1-8a3dac7a0333.html](http://www.stwnewspress.com/news/experimenting-with-the-future/article_b9e5ea45-ddb7-5ba9-a4a1-8a3dac7a0333.html)
- Campus Technology. (2018). *Hacking Real-World Problems with Virtual and Augmented Reality* [Press Release]. Retrieved from <https://campustechnology.com/articles/2018/02/12/hacking-real-world-problems-with-virtual-and-augmented-reality.aspx>
- O'Colly (2018) *Researchers to discuss virtual and augmented reality at symposium Friday*. Retrieved from [http://www.ocolly.com/news/researchers-to-discuss-virtual-and-augmented-reality-at-symposium-friday/article\\_23918d00-c103-11e8-93e4-cb5418a19b32.html](http://www.ocolly.com/news/researchers-to-discuss-virtual-and-augmented-reality-at-symposium-friday/article_23918d00-c103-11e8-93e4-cb5418a19b32.html)
- O'Colly (2018) *Virtuhoma hosted to bring VR/AR into the classroom*. Retrieved from [http://www.ocolly.com/news/virtuhoma-hosted-to-bring-vr-ar-into-the-classroom/article\\_7007721a-c40c-11e8-8678-0f79943bdb35.html](http://www.ocolly.com/news/virtuhoma-hosted-to-bring-vr-ar-into-the-classroom/article_7007721a-c40c-11e8-8678-0f79943bdb35.html)
- O'Colly (2018) *IFMA partners with Our Daily Bread for CANstruction charity event*. Retrieved from [http://www.ocolly.com/news/osu/ifma-partners-with-our-daily-bread-for-canstruction-charity-event/article\\_84c29b4c-cc01-11e8-aab4-17d055b34daf.html](http://www.ocolly.com/news/osu/ifma-partners-with-our-daily-bread-for-canstruction-charity-event/article_84c29b4c-cc01-11e8-aab4-17d055b34daf.html)
- Stillwater Newspress (2018) *CANstruction puts creative spin on food fundraising*. Retrieved from [http://www.stwnewspress.com/news/canstruction-puts-creative-spin-on-food-fundraising/article\\_2462417d-3694-52bb-aa47-576cf0af5f91.html](http://www.stwnewspress.com/news/canstruction-puts-creative-spin-on-food-fundraising/article_2462417d-3694-52bb-aa47-576cf0af5f91.html)

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## Patents

### In process

- ARMeX: Augmented Reality Model Exchanger, Chandrasekera, T., Krishnamurthi, K. (OSU Inventions Disclosure No. 2016.15)
- Augmented Reality based object locating and information system mobile application for older adults, Kang, M. (PI), Choo, P., **Chandrasekera, T.**, Hebert, P. (OSU Inventions Disclosure No. 2016.09)

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## Grants Funded

### Internal

- Applications of Psychophysiological factors in Design education, College of Human Sciences Technology Fee Proposal, \$ 23,000., Chandrasekera, T., (2018)
- Virtual+Augmented Reality Symposium: Problem solving in multidisciplinary teams through digital media, Humanities, Arts, and Design-Based Disciplines Research Grant, \$10, 000: Chandrasekera, T. (2017)

- Virtual and Augmented Reality use in Interior Design, College of Human Sciences Technology Fee Proposal, \$ 6,000., Chandrasekera, T., (2017)
- Virtual and Augmented Reality use in Interior Design, College of Human Sciences Technology Fee Proposal, \$ 4,746.00, Chandrasekera, T., (2016)
- Mixed Reality Lab Supplemental Funds, Design, Housing and Merchandising, \$7,500.00 Award: Chandrasekera, T.
- Oklahoma State University Presidents Fellow Funding: Supporting equipment for the Mixed Reality lab, \$5400 Award, Chandrasekera, T (2016)
- Mixed Reality Lab: Infrastructure Development, College of Human Sciences Laboratory and Research Program, \$31,000 Award: Chandrasekera, T.(PI), Robinette, K, Slevitch, L. (2014)
- Sketchup Licenses, Proposal for Technology Seed Money - College of Human Sciences, \$3125.00 Award (Annually Reoccurring): Chandrasekera, T (2014)

## Grants Funded

### External

- STEM through Design: Digital Media Workshops for Native American Middle School Girls, National Center for Women and Information Technology (NCWIT) Academic Alliance Seed Fund, \$10, 000. Chandrasekera, T., and Peek, G (2018)
- Classroom Interior Variables Influence on Teacher Absenteeism and Productivity. Interior Design Educators Council Special Projects Grant. \$3,000. Pulay, A., Asino, T., Tripp, P., & Chandrasekera, T. (2018)
- SITAND: Ergonomic Chair for Older Adults, NSF (National Science Foundation) iCorps \$3000: Chandrasekera, T., Ferreira, A., Jayadas, A. (2017)
- IFDA Elizabeth Brown Grant, Ergonomic Design for Older Adults through Virtual Reality, \$1000: Chandrasekera, T. (2017)
- Pepin Online (Phase II): Virtual Museum Collection. The Leevera Pepin Museum Fund, \$3,500 Award: Hebert, P., Chandrasekera, T., Smith, C. (2016)
- Pepin Online (Phase I): Virtual Museum Collection. The Leevera Pepin Museum Fund, \$3,450 Award: Hebert, P., Chandrasekera, T., Smith, C. (2016)
- VR First Technology Equipment: Supporting equipment for the Mixed Reality lab, Phase I, \$3000 Award (through equipment), Chandrasekera, T. (2016)
- Augmented Reality based object locating and information system mobile application for individuals suffering from disabilities. Bartlett Family Grant for Promoting Independent Living, \$10,000 Award: Chandrasekera, T.(PI), Kang, M., Hebert, P., Choo, P. (2014)
- Reality Capture and Simulation for Design Evaluation, MU Information Technology Committee, \$25,000 Award, University of Missouri-Columbia: Balakrishnan, B.(PI), D'souza, N., Oprean, D., Chandrasekera, T., Bucher, M., Schrimpf, B. (2012)
- Augmented Reality Technology for Architectural Education, MU Teaching with Technology Innovation Fund, \$1000 Award, D'Souza, N., Chandrasekera, T. (2013)

## Grants Not funded

- Can the Physical Classroom Environment Prevent Teacher Absences? Pilot Projects Research Training Program of the National Institute for Occupational Safety and Health (NIOSH). \$10,000 Award, Pulay, A., Asino, T., Chandrasekera, T., & Tripp, P.(2016)
- A Case Study Evaluating Effective Communication Techniques for Design Thinking in the Creative Design Process. Interior Design Educators Council Special Projects Grant. \$3000 Award, Pulay, A., Asino, T., Chandrasekera, T., & Tripp, P. (2016)
- Renovation/Development of Critical Research Facilities Application for The L.I.F.E. Lab for Active Aging, \$148,213 Award, Roberts, E., Bishop,A., Hermann,J., Mansy, K., Ekneligoda, N., Hebert,P., Rupert-Stroescu, M., Kang,M., Clare, G., Chandrasekera, T., Jayadas, A., Slevitch, L. (2016)
- Measuring Consumer's Reaction and Cognitive Load Using Mobile EEG Systems in Virtual Environments, Sony Faculty Innovative Award Grant, \$91,456 Award: Chandrasekera, T.(PI), Slevitch, L. (2016)
- Measuring the User Experience in Real-World Environments with Eye Tracking Glasses. College of Human Sciences Laboratory and Research Program, \$29,190 Award: Clare, G., Bishop, A., Pulay, A., Chandrasekera, T., Hermann, J.(2016)
- NSF Cyber Learning and Future Technologies Grant: Exploring a Layered Interactive Learning Strategy (LILS) during Design Field Visits using Mobile Tangible Interaction System (MOTIS), \$544,186 Award: Newton D'Souza (PI) Roy Young, Fallingwaters Institute: Tilanka Chandrasekera, OSU; Donna Russell, Walden, Karen Dobkins, UCSD. (2015)
- Reducing Falls in Rural Agrarian Older Adults through Mobile Virtual Reality Systems,

- Oklahoma Agricultural Experiment Station Projects, \$10,000 Award: Chandrasekera, T. (PI), Jayadas, A., Peek, G., (2014)
- ARMeX: Augmented Reality Model Exchanger, Technology Business Development Program (TBDP), \$30,000 Chandrasekera, T., Krishnamurthi, K.(2015)
  - Augmented Reality based object locating and information system mobile application for older adults (second iteration), Technology Business Development Program (TBDP), \$30,000 Award: Kang, M. (PI), Choo, P., Chandrasekera, T., Hebert, P.(2015)
  - Neuroaesthetics in Interior Design: Using virtual visualization techniques in understanding user perception of Hospitality industry interior environments, American Society of Interior Designers, Workplace Design Research Grant, \$50,665 Award: Chandrasekera, T.(PI), Slevitch, L. (2014)
  - Reducing fear of falling in older adults through Augmented Reality systems, Oklahoma Agricultural Experiment Station Projects, \$10,000 Award: Chandrasekera, T. (PI), Jayadas, A., Peek, G., (2014)
  - NSF: People-Activity-Clothing-Environment (PACE): System Design for Safety and Health of Adults Age 60 and Over, \$800,000.00 Award: Robinette,K(PI)., Chandrasekera, T., Cheng, Z., Kang, M., Petrova, A., Peksoz, S., Smith, C., Balasubramanian, M. (2013)
  - Sustainable Illumination Practices in Oklahoma (EPA Grant), \$200,000.00 Award: Kang, M.(PI), Hebert, P., Peek., G., Chandrasekera, T. (2013)
  - Encumbered & Special Needs Human Modeling Lab Core Facilities Support, \$ 232,937.00 Award: Robinette, K.(PI), Petrova, A., Chandrasekera, T., George, K., Park, N., Smith,C., Cheng, Z., Davenport, I. (2013)
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## Teaching

### Department of Design Housing and Merchandising, Oklahoma State University (2013-18)

#### Undergraduate

DHM 2103	Interior Design Studio I: Residential
DHM 3173	Digital Design Communication
DHM 3301	Supervised Field Experience (Co-Instructor)
DHM 3823	Professional Practices for Interior Design
DHM 3881	Interior Design Pre-Internship Seminar
DHM 4264	Interior Design Studio V: Large Scale Commercial
DHM 4373	Advanced CAD/ Revit Architecture
DHM 4433	Facility Management and Design.
DHM 4824	Professional Internship in Interior Design.

#### Graduate Level

DHM 5113	Theories of Creative Process in Design and Merchandising
DHM 5810	Problems in Digital Design Communication
DHM 6410	Independent Study Course in Design Cognition

**Department of Architectural Studies, University of Missouri (2010-13)**

ARCHST 1200 Architectural Drafting and Working Drawings

ARCHST 2230 Design Communication (Teaching Assistant)

ARCHST 3182 Design Studio II

**Department of Architecture, University of Moratuwa, Sri Lanka (2009)**

AutoCAD B.Arch Level II

Design Studio II B.Arch Level II (Visiting Tutor)

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**Advising**

Graduate Students

- Luis Puig (PhD Advisor) – In process  
The occurrence of Unexpected Discoveries in the Creative Design process (Product Design/Merchandising Graduate Student)
- Gabriella Pereira (PhD Committee Member) – In process  
Using technology with Older adults aging in place (Interior Design Graduate Student)
- Tara Dalinger (PhD Committee Member) –Completed, Spring 2018  
Exploration of a Relationship between P-12 Teachers cognitive Load and Intent to adopt Technology (Education Technology Graduate Student)
- Katja Siamionava (MS Committee Member) - Completed, Spring 2016  
Thesis Title: *Using Virtual Visualization Techniques in Understanding User Perceptions of Hotel Environments* (School of Hospitality and Tourism Management Graduate Student)
- Do Kim (MS Committee Member) – In Process  
Virtual Reality and Graphic Design (Graphic Design Graduate Student)

Undergraduate Students (Apart from regular undergraduate academic advising)

- Kyleigh McNabb (DHM/Interior Design), Use of digital tools in the Design Industry (Spring, 2017)
- Rachel Sample (DHM/Interior Design), Pepin Collection, 3D Scanning a Museum Object Collection (Fall, 2016)-Co Advising with Paulette Hebert
- Savanah Bush, (DHM/Interior Design), Pepin Collection, 3D Scanning a Museum Object Collection (December, 2017) -Co Advising with Paulette Hebert
- Yang Pei, (DHM/Interior Design), Pepin Collection, 3D Scanning a Museum Object Collection (Spring 2018)-Co Advising with Paulette Hebert
- Kate Korneva (DHM/Interior Design), Perception of layout of retail stores examining the effect of design factors on approach responses using virtual reality simulation (Ongoing)
- Andre Fereira (DHM/Interior Design), VR/AR Hackathon and Workshops (Fall,2017-Spring 2018)

## Student Achievements Advising

- Kate Korneva People's Choice Award, Understanding Perceived Retail Crowding (PRC) through Virtual Reality (VR) and Neuroimaging (Poster) CADRE Conference, 2018, Oklahoma State University (Undergraduate)
- Luis Puig, IFDA Irma Dobkin Universal Design Grant, \$2000 (2018) (Graduate)
- Craig Baron, Mario Bocanegra, Do Kim, Riva Nayaju, Evaluating User Experience in a custom-made Augmented Reality Application, Poster Presentation, CADRE Conference, 2018, Oklahoma State University (Graduate)
- Yang Pei, 3-D Scanning Supplement Project for Frank Lloyd Wright Artifacts: Developing An Immersive Virtual Environment, Poster Presentation, CADRE Conference, 2018, Oklahoma State University (Undergraduate)
- Andre Ferreira (2018) Embracing Technology: Using 3D Scanned Museum Collections in Interior Design Education. Environmental Design Research Association conference 2018, Oklahoma City. Jun 6-9, 2018(Undergraduate)
- Andre Ferreira, SITAND: Ergonomic Chair for Older Adults, NSF (National Science Foundation) iCorps Grant \$3000 (2017) (Undergraduate)
- Ashtyn Shugart, Brittany Burnam, Using Virtual Reality to Enhance Design Creativity in the Design Process, Research Week Poster Presentation, 2017(Undergraduate)
- Kyleigh McKnabb, Use of Digital Tools in the Design Industry, Kathleen Briggs, Kathleen Briggs Undergraduate Scholars Forum, 2016(Undergraduate)
- Emily Murtha, Erin Lon, Shelby Adams, Savanah Bush, Alyssa Martin, (Undergraduate) IFMA Student organization students won first place for their submission to IFMA WWP on Empathic Design and FM [https://www.youtube.com/watch?v=zs4u6A\\_e9R8](https://www.youtube.com/watch?v=zs4u6A_e9R8)

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## Research Assistantships

- Web designer -Design and Maintenance of the Design with Digital Media website(Department of Architectural studies, University of Missouri-Columbia)-2010
- Virtual Gallery project for the department of Architectural studies, University of Missouri-Columbia, Funded by the Technology Transformation Fund, MU-2010
- Architectural Design for Second life online writing lab (OWL) for University of Missouri-St Louis
- Development of a online collaborative environment using open wonderland (Java based open source collaborative virtual environment) funded by the Margaret W. Mangel Faculty Research Catalyst Fund, 2012
- Creative Convergence Network (CCN): International Symposium on Assessment and Facilitation of Creativity in New Media. Funded through Mizzou Advantage, 2012

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## Software and Research Skills

### Software

- 3D Visualization – 3Ds Max, Sketchup, Revit Architecture
- 2D Visualization – Adobe Photoshop, Adobe Illustrator
- BIM- Revit Architecture
- 3D simulations – Unity 3D, Openwonderland
- 2D Drafting- AutoCAD, ArchiCAD
- Parametric Design – Para3D, Rhinoceros, Grasshopper,
- Presentation – Adobe Flash, SwishMax
- Video editing- Adobe Aftereffects, Adobe Premiere, Ulead Media Studio
- Sound edition- Cooledit, Audacity
- Statistics – SPSS, JMP
- General- MS Office packages, Windows OS
- Mobile augmented reality and other applications – Qualcomm Vuforia, Unity3D

## Research

- Familiar with both quantitative and qualitative research methods, ethnography, think aloud protocols, protocol analysis, content analysis, survey research, interviews, statistical analyses, Observational research etc.
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## Professional Certifications and Affiliations

- Licensed Architect (ARB Registration No-CA09798) – Sri Lanka
  - Associate Member of Sri Lanka Institute of Architects/AIA (SL) -(<http://www.slia.lk>)
  - Environmental Design Research Association -([www.edra.org](http://www.edra.org))
  - Design Communication Association -(<http://www.designcommunicationassociation.org/>)
  - International Facility Management Association –([www.IFMA.org](http://www.IFMA.org))
  - Housing Education and Research Association (<http://www.housingeducators.org/>)
  - American Society of Architectural Illustrators ([www.asai.org](http://www.asai.org))
  - Sri Lankan Association for the Advancement of Science -(<http://www.slaas.org>)
  - Spatial Intelligence and Learning Center Spatial Network -(<http://www.spatiallearning.org>)
  - SIG, Design Creativity (under Design Society) - (<http://www.jaist.ac.jp/ks/labs/nagai/DesignCreativityW>)
  - Immersive Education Initiative -(<http://immersivededucation.org>)
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## Scholarly Service

- Co-Chair 49<sup>th</sup> Environmental Design Research (EDRA) Association conference, 2018, Oklahoma City, OK. June 6-9, 2018
- Associate Editor, Environmental Design Research (EDRA) Association conference Proceedings 2018, Oklahoma City, OK. June 6-9, 2018
- Organizer- Virtual and Augmented Reality Hackathon, 2018 (Oklahoma State University)
- Organizer- Virtual and Augmented Reality Symposium, 2018 (Oklahoma State University)
- Editorial Board Member: Journal of Education and Training Studies, 2016-Present
- Editorial Board Member: International Journal of Education and Information Technology 2015-Present
- Associate Editor for the International Journal of Visual Design (CG Publishing)-2014
- Associate Editor for the International Journal of Design Education (CG Publishing)-2014
- Associate Editor for The International Journal of Designed Objects (CG Publishing) -2013
- Scientific Committee/Reviewer: Faculty of Architecture Research Unit Conference-University of Moratuwa, Sri Lanka, 2015, 2016, 2017
- Technical Program Committee Member/Reviewer The International Conference on Mechatronics and Manufacturing Technologies, Wuhan, China, August 20th - 21st, 2016
- Reviewer for Housing Education and Research Association (HERA) conference 2014, 2015, 2016, 2017
- Reviewer for Environmental Design Research (EDRA) Association conference, 2011, 2012, 2013, 2014, 2015, 2016, 2017, 2018
- Reviewer for The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) conference, 2016, 2017, 2018
- Reviewer for International Facility Managers Association Conference (IFMA) conference, 2017

- Editorial Committee, Journal of Facility Management Education and Research, 2017-Present
- Reviewer, Journal of Interior Design (Wiley), 2017-Present

## Outreach Activities

### Workshops

**4-H Roundup** :4-H Roundup is an annual event (2014 marks the 93rd) where 4-H youth come to campus and participate in a variety of workshops and competitions. Presentation to two sessions of 40 Students Design with digital media –Summer, 2014

**Grandparent University**:Grandparent University is an annual event (2015 marks the 13th) where members of the alumni association (grandparents) bring legacies (grandchildren) to campus and participate in a variety of intergenerational workshops and campus activities.

Design with digital media (in collaboration with Dr. Gina Peek) Outcome: 6 hours instruction (22 Students).- Summer, 2015 (June 25-26, 2015).

Design with digital media (in collaboration with Dr. Gina Peek, and Gabriella Pereira) Outcome: 6 hours instruction (19 Students).- Summer, 2016 (June 15-17, 2016).

Design with digital media (in collaboration with Dr. Gina Peek, and Gabriella Pereira) Outcome: 6 hours instruction (22 Students).- Summer, 2017 (June 22-23, 2017).

Design with digital media (in collaboration with Dr. Gina Peek, and Gabriella Pereira) Outcome: 6 hours instruction (22 Students).- Summer, 2018 (June 21-22, 2018).

**Hackathon Workshops**: Three workshops focusing on developing Virtual Reality and Augmented Reality Content. (September, October and November, 2017)

**Unidos**: Designing with Digital Media workshop for Latino youth, (in collaboration with Dr. Gina Peek, and Luis Puig) Outcome: 2 hours instruction (15 Students).- Summer, 2018 (June 12, 2018).

**STEM for Native American Middle School Girls**: 2 week STEM program with an emphasis on Design, (in collaboration with Dr. Gina Peek, and Kate Korneva) Outcome: 2 weeks/60 Hrs instruction (6 Students).- Summer, 2018 (July 16-27, 2018).

### Events

**Augmented and Virtual Reality Hackathon, 2018**: The Hackathon featured multidisciplinary teams of five or more team members. These multidisciplinary teams worked together in solving the problem posed to them. The event was designed to run for two days, and at the end of the Hackathon, a panel of judges determined the winning solution. (Jan 26-27, 2018) - <https://goo.gl/2kpWUV>

**Augmented and Virtual Reality Symposium, 2018**: This event brought together experts from different domains (such as Mathematics, Chemistry, English, Interior Design, Anthropology etc.) to speak about the use of virtual and augmented reality technologies. (Sept. 28<sup>th</sup>, 2018) - <https://goo.gl/H1v4yh>

**CANstruction, 2018**: International Facility Management Associations Student Organization organized an event to create structures out of canned food. 11 student teams from different educational areas such as Architecture, Interior Design, Hospitality, Nutrition, and Engineering participated in this event. The food cans were donated to a local food bank. (Oct. 12, 2018) - <https://goo.gl/RVTKjY>

### Other

**Environmental Design Research Association (EDRA) 49 Conference, 2018**: Co-Chair (June 6-9, 2018)

- Juror for Campus Technology Impact Awards, Campus Technology Online Journal, 2017,2018
- Juror for the Interior Design competition, Family, Career and Community Leaders of America (2016, 2017)
- Awards selection committee: Award of Excellence, International Facility Managers Association (2016)
- Awards selection committee: Presidents Cup, Oklahoma State University (2016)
- Awards Selection committee: Award of Excellence, Council for Interior Design Accreditation (2016)
- Member CIDA Future visions: Helped in establishing new CIDA standards for 2017 and beyond. 22 members (8 academics, 10 professionals, 4 allied professionals) were invited from the field of Interior Design in Canada and the US
- Awards Selection committee: Teaching with Technology Award, University of Missouri, Columbia (2013)

**University and  
Departmental Service**

**Department**

- Interior Design Internship Coordinator, Oklahoma State University (2014-Present)
- VR First Coordinator
- Faculty, Students and Staff Recognition Committee member, DHM, Oklahoma State University (2014- Present)
- Department of Design Housing and Merchandising New Building Committee -2013-2014
- Adhoc Program Exchange Committee, Department of Design Housing and Merchandising (2015)
- Faculty Advisor: International Facility Management Association, Oklahoma State University Student Chapter:2013-Present
- Faculty Advisor: American Society of Interior Designers, Oklahoma State University Student Chapter:2014-2015
- DHM Strategic plan: Niche committee (2015)

**College**

- Faculty, Students and Staff Recognition Committee member, CoHS, Oklahoma State University (2015- Present)
- Human Sciences, Sustainability Think Tank – Oklahoma State University (2013-Present)

**University**

- Coalition for Advanced Digital Research & Education (CADRE) Council, OSU.
- University Technology Services Fee Committee, OSU.