

NEWTON D'SOUZA, Ph.D

Associate Professor,
Department of Interior Architecture,
College of Communication, Architecture and the Arts,
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EDUCATION**PhD, 2006**

School of Architecture and Urban Planning, University of Wisconsin- Milwaukee.
Dissertation: "Design Intelligence: A Case for Multiple Intelligences in Architecture Design."

M. A (Architecture by Research), 2001,

School of Design and Environment, Centre for Advanced Studies in Architecture,
National University of Singapore

Thesis: "An Interpretation of Christopher Alexander's Design Methods (1964-87)
using Walter Watson's Philosophy of New Pluralism."

B. Arch, 1993, Architecture Department, University Visvesaraya College of
Engineering, Bangalore University, India.

Thesis: "Institute for Oceanography – Confluence of Intellectual, Occupational
and Recreational Aspects of Marine Environments."

**EMPLOYMENT
HISTORY**

Associate Professor with Tenure, College of Communication, Architecture and
the Arts, Florida International University, Miami, 2016 onwards.

Associate Professor with Tenure, Director of Graduate Studies, Department
of Architectural Studies, College of Human Environment Sciences, University of
Missouri, Columbia, 2013 to 2016

Assistant Professor, Department of Architectural Studies, College of Human
Environment Sciences, University of Missouri, Columbia, 2007-2013

Teaching Assistant and Instructor, School of Architecture and Urban Planning,
University of Wisconsin-Milwaukee, 2002- 2006.

Teaching and Research Assistant, School of Design and Environment, National
University of Singapore, Singapore, 2000.

Chief Architect, M/S R.L.D'souza Consulting Engineers, Mangalore, India, 1996-
97.

Assistant Architect, M/S Neville D'souza Architects, Mangalore, India, 1996

Interior Designer, M/s Retail Designing and Merchandizing Pvt. Ltd., Bangalore, India, 1995

Assistant Architect, M/s Zachariah Consultants, Bangalore, India, 1993-94

Architectural Intern, M/s Christopher Noronha Architects, Mangalore, India, 1991-92

AWARDS

The Ernest L. Boyer International Award for Excellence in Teaching, Learning, and Technology, 25th International Conference on College Teaching and Learning, Jacksonville, Florida, 2014

2014 Awards for Innovative Excellence in Teaching, Learning, and Technology, 25th International Conference on College Teaching and Learning, Jacksonville, Florida, 2014

Excellence in Teaching with Technology Award, Graduate & Professional Teaching category, Educational Technologies (ET@MO), University of Missouri, Columbia, 2013

Distinguished Teacher Award, College of Human Environment Sciences, University of Missouri, Columbia, 2011

Chancellors Graduate Student Award, University of Wisconsin-Milwaukee, August 2005.

Graduate Student Research Travel Award, University of Wisconsin-Milwaukee, 2005

Best Research Paper Award, School of Architecture and Urban Planning, University of Wisconsin-Milwaukee, 2002

AWARD NOMINATIONS

The William T. Kemper Fellowship for Teaching Excellence Nominee, University of Missouri, Columbia, 2016

MU International Engagement Award Nominee, University of Missouri, Council of International Initiatives for advancing MU's global understanding and reputation, University of Missouri, Columbia, 2013

Gold Chalk Award Nominee, Graduate Professional Council, University of Missouri, Columbia, 2011

Journal of Design Studies Best Paper Award (2011, Finalist), Elsevier

International Award for Excellence in the Design Field (2008 Finalist), University Press, Australia, 2008

Carter Manny Dissertation Award Nominee, School of Architecture and Urban Planning, University of Wisconsin-Milwaukee, 2005

LEADERSHIP

Organizing Chair, Healthcare Design Colloquium: Digital Futures, Florida International University, Nov 3rd, 2017

Director of Graduate Studies, Department of Architectural Studies, College of Human Environment Sciences, University of Missouri, 2014 onwards

Chair, Graduate faculty Senate Awards sub-committee, Graduate Faculty Senate, University of Missouri, Columbia, 2015 onwards.

Chair, Graduate faculty Senate Functions sub-committee, Graduate Faculty Senate, University of Missouri, Columbia, 2014-15.

Organizing Chair, Mizzou International Symposium on Creativity and New Media, University of Missouri, April 19-21, 2013. Coordinated a panel of world-renowned scholars on creativity and design thinking, including Mihaly Csikzentmihalyi, Mary Lou Maher, Barbara Tversky, Peter Lloyd and Gabriella Goldschmidt.

Charette Leader, 2013, Design of a Campus Success center at Mizzou for Vice Provost for Undergraduate education. The goal is to revision a cutting-edge learning space that benefits all MU students and faculty. Team members: Bimal Balakrishnan, Asha Kutty, Arthur Mehrhoff.

Organizing Chair, Hallmark-Mizzou Creativity Workshop: Facilitating and Documenting the Effect of New Media on the Creative Process. Conducted an interdisciplinary creative process in liaison with Hallmark Inc. world headquarters at Kansas city and an interdisciplinary group of students from University of Missouri, Summer 2012

Chair, Creative Convergence Network, interdisciplinary faculty group exploring the impact of New Media on creative Disciplines, University of Missouri, Columbia.

Invited Engagements

External Examiner, Ph.D. Thesis, Stellenbosch University, South Africa

"Technology and Neuroscience and its implications to Interior Design Education/Research," Speaker, Council for Interior Design Forecasting Summit, Washington DC, April 8, 2018

"The Future of Practice: Research Collaborations between Academia and Practice," Panel member, AIA Christopher Kelley Leadership Development Program, Miami.

"Concept Mapping," Speaker, Faculty Research Retreat, College of Communication, Architecture and the Arts, Florida International University, March, 2017

"Reflections on Teaching and Learning with Mizzou Boyer Winners" Plenary speaker panel, Celebration of Teaching and Learning, University of Missouri, June, 2016,

"Decode-Encode-Design," University Visvesarya Architects Alumni General Body Meeting Keynote, Bangalore, India, August, 2015

"In Search of the 21st Century Campus: Positing the Relationship between Informal Learning Environments and 21st Century Learning Skills," Plenary speaker, Celebration of Teaching and Learning, 2015, University of Missouri.

"Conceptualizing Creativity in Design Thinking," Honors College for the Non-Arts Major, University of Missouri, 2015

"In Search of the 21st Century Campus: Positing the Relationship between Informal Learning Environments and 21st Century Learning Skills" with Asha Kutty and Arthur Mehrhoff, Campus Facilities Brown Bag, University of Missouri.

Environment Behavior Issues in the Age of New Media and its impact on Design, Cornell University, College of Human Ecology, March 2014.

Hallmark-Mizzou Creativity Workshop: Facilitating and Documenting the Effect of New Media on the Creative Process, Lead panelist, University of Missouri, November 2013

Architecture of India, School of Textile and Apparel Management Study Abroad Program, August 2010

R E S E A R C H

PUBLICATIONS

Book, Book Chapters and Special Issues Journals

D'souza, N, anticipated Aug 2017, **The Multi-Skilled Designer: Cognitive Foundation for Inclusive Architectural Thinking**, Book Publication, Research in Architecture Series, Routledge, anticipated Dec 2018

D'souza, N., Dastmalchi, M.: 2017, **"Comfy" Cars for the "Awesomely Humble": Exploring Slangs and Jargons in a Cross-Cultural Design Process** in *Analyzing Design Thinking: Studies of Cross-Cultural Co-Creation*, Ball, L.J., Christensen, B.O. and Halskov, K. (eds.). Taylor and Frances.

D'souza, N. (Eds), Sept 2016: **Investigating Design Thinking of a Complex Multidisciplinary Design Team in a New Media Context: Introduction**, Guest Editor for Special Section in *Journal of Design Studies*, Elsevier. Vol 46, pp 1-5.

D'souza, N.: 2015, **Places in the Virtual-Physical Continuum: The Impact of Virtual Behavior on Place Attributes of Online Coffees Shops**, Section II,

Perspectives on the Practice of Interior Design, *The Handbook of Interior Design*, Thompson, J. and Blossom, N. (eds.), Wiley Blackwell, pp 366-381

D'souza, N.: 2004, **Is Universal Design a Critical Theory?** Keates, S., Clarkson, J., Langdon, P., Robinson, P. (eds.) Chapter 1: Designing a more Inclusive World. Springer-Verlog, pp: 3-10.

**Refereed
Journal
Articles**

D'souza, N., Dastmalchi, M.:2016, **Creativity on the Move: Exploring small-c(p) and big-C(p) Creativity in a Multidisciplinary Design Team in Investigating Design Thinking of a Complex Multidisciplinary Design Team in a New Media Context**, Special Issues in *Journal of Design Studies*, Elsevier, Vol 46, pp 6-37

Chandrasekhara, 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*, Locke Science Publishing Co., Vol 42, pp 1003-1019

Chandrasekhara, T., Ng Voc, and D'souza, N.:2012, **The Effect of Subliminal Suggestions on Sudden Moments of Inspiration (SMI) in the Design Process**, *Journal of Design Studies*, Elsevier, Volume 34, Issue 2, March 2013, pp 193–215

D'souza, N.:2012, **The Metaphor of an Ensemble: Architectural Design and Skill Convergence**, *Journal of Design Research*, Inderscience, Vol 10, No. 3, pp 206-222

D'souza, N. Yoon, So-Yeon, Islam, Z.:2011, **Understanding Design Skills of the Net Generation of Designers: An Exploration through the VR-KIDS Project**, *Journal of Design Studies*, Volume 32, Issue 2, Elsevier, pp 180-209. [Finalist for Design Studies Award by the editorial review board, 2011]

D'souza, N.:2009, **Revisiting a Vitruvian Preface: The Value of Multiple Skills in Contemporary Architectural Pedagogy**, *Architectural Research Quarterly*, Cambridge University Press, Vol. 13. pp 173-181

D'souza, N.: 2008, **Design Patterns and Knowledge Dissemination in Environmental Design Research: A Cross- Disciplinary Model**, *Design Principles and Practices: An International Journal*, Vol 2, No1, Burrows, Loy and Cope (Eds), University press Journals, Australia, pp.75-86. [Finalist for International Award for Excellence in the Design Field, 2008]

D'souza, N.: 2007, **Design Intelligences: A Case for Multiple Intelligence in Architectural Design**. *International Journal of Architectural Research*, Vol 1, No 2, Archnet-IJAR, July 2007, MIT Press, pp 15-34

D'souza, N.: 2003, **Signs that don't Mine: Re-examining the Late Architecture of Charles Correa**, *Architecture + Design*, Journal of Indian Architecture, November, 2003, pp 90-96

**Refereed
Papers in
Conference
Proceedings**

D'souza, N., Balakrishnan, B., Hopfenblatt, J., Dastmalchi, M., and Kress, M. (2017), **iSTUDIO: An Interactive Form-making Environment for Architectural Pedagogy**, Proceedings of Design Communication Association Conference, Virtual+Actual: Process and Product of Design, Cornell University, Ithaca, New York

Zhang, L., Pradhananga, N., and D'souza, N. (2018), **Capturing Human Sensation Using Physiological Sensing Devices to Support Human-Centered Indoor Environment Design**, Construction Research Congress, 2018, Building Community Partnerships, New Orleans, Louisiana, April, 2018

D'souza, N., Dastmalchi, M. 2016, **Analyzing Cross-Cultural Design Jargons**, 11th Design Thinking Research Symposium, Copenhagen Business School, Denmark, Nov 2016

D'souza, N. and Chandrasekhara, K. 2014, **The Role of Design Skills in Design Review Conversations**, 10th Design Thinking Research Symposium, Purdue University, Indiana, Oct 2014.

Chandrasekera, T., D'Souza, N., & Yoon, S.-Y. 2013. **Soundscapes in Immersive Virtual Environments**. The International Symposium on Affective Engineering, Kitakyushu, Japan, pp.339-348

D'souza, N. Balakrishnan, B., and Dicker, J.: 2012, **Transparency: Literal, Phenomenal, Digital**. Proceedings of the 100th Annual Meeting of Association of Collegiate Schools of Architecture, Boston, pp 708-716.

D'souza, N.: 2010, **The Metaphor of an Ensemble: Creativity as a Process of Skill Integration in Design**, Proceedings of first International Conference on Design Creativity, Kobe University, Japan, pp 281-288.

Yoon, S.-Y., and D'Souza, N., 2009. **Different Visual Cognitive Styles, Different Problem-Solving Styles?** International Association of Societies for Design Research, IASDR, Seoul, Korea, 2010, pp 2341-2351.

D'souza, N.: 2007, **Describing Differences between Manual and Digital Modeling: A Holographic Approach to Architectural Design**, Proceedings of the Design Communication Association, DCA 2007, pp 325-338.

D'souza, N.: 2005, **The Analysis of Wholes and Parts in a Row House Design Project**, *Design Methods: Theories and Practice*, Vol 39, No 2, Grant, D. (Ed), Design Methods Institute, San Louis Obispo, CA, pp 3753-3759

D'souza, N.: 2005, **Architect as a Yogi: Meditative Practices and Architectural Imagery**, *Architecture + Design*, Journal of Indian Architecture, April, 2005, pp 23-27

D'souza, N.: 2005. **Architectural Intelligences, Proceedings of the International Workshop on Understanding Designers**, 17-18 October 2005, University of Provence, Aix-en-Provence, France, pp 425-433

D'souza, N. and Talbott, K.: 2003, **The (Non) Relationship between Efficiency and Choice of Computer Design Modeling: An Automated Protocol Analysis**. Digital Design. Proceedings of 22nd International European Academy of Computer Aided Architecture Design (eCAADe), Austria, pp 567-574

D'souza, N.: 2003, **Intertextuality or Indeterminacy? Re-examining Meanings in Contemporary Indian Architecture**, *People Shaping Places Shaping People*, Proceedings of Environment Design Research Association, EDRA34, Minneapolis, Minnesota, pp 62-67

D'souza N.: 2002, **Sign and Design: Modernity in India Reexamined**, Towards modern Asian Architecture. Li Shiqiao and Li XiaoDong (Eds.). Proceedings of the mAAN 2nd International Conference Towards Modern Asian Architecture, National University of Singapore, Singapore.

D'souza, N.: 2001, **A New Agenda for Asian Design Studios: Striking a balance between Context-specific and Universal Issues**, M. Tan (ed.) Proceedings of the 1st ACAE conference on Architectural Education for the Asian Century, National University of Singapore, pp 51-55

Peer reviewed
presentations,
posters and abstracts

Dastmalchi, M and D'souza, N. (2017). **Design as a Creative Discourse: Investigating ways of 'what,' 'how' and 'who' ' of creative interactions in a multidisciplinary design team**, Eight International Conference on Design Computing and Cognition (DCC'18), Bringing artificial intelligence, cognitive science and computational theories to design research, 2–4 July 2018, Italy (Accepted for poster presentation).

D'souza, N. (*symposium leader*), Kutty, A., Dobkins, K., Nanda, U., Balakrishnan, B.(2015). **Use of Neuroscience Concepts and Measurements in Environment Behavior Research: Challenges and Opportunities**, Environment Design Research Association 46, Los Angeles.

Online-Onsite Hybrid Synchronous Seminar: A Sense of Place, A Sense of Community (2014), Conference Presentation, 25th International Conference on College Teaching and Learning, Florida,

Thai, T. and D'souza, N. (2014). **Ecology of Rainscapes: Exploring Formal Aesthetics of Rain-Architecture in a Buddhist Library Design**, Poster and Abstract, Environment Design Research Association 45, New Orleans.

D'souza, N. and Balakrishnan, B. (2014). **Mizzou International Symposium on Creativity and New Media: Studying Media Affordances and Design Creativity**, Conference Presentation, Sixth International Conference on Design Computing and Cognition (DCC'14): Bringing artificial intelligence, cognitive science and computational theories to design research, University College London, London, UK

Chandrasekera, T., Yoon, S., and D'souza, N. 2013. **The Effect of Virtual Reality and Augmented Reality in the Design Process**. Conference Presentation, Design Communication Conference 14, Atlanta, Georgia 2014.

Alawadhi,A., D'souza, N., and Yoon,S., 2012, **Examining the Impact of Design Elements in a Retail Store on Customers' Perception of Crowding: An Empirical Study with a High-Fidelity Virtual**, Conference Presentation, DCA 2012 Conference, Oklahoma State University

Chandrasekera, T., Ngoc Vo, and D'souza, N.: 2012, **Game Changers: Sudden Moments of Inspiration (SMI) in the Design Process**, Conference Presentation, Environment Design Research Association 43, Seattle

Anthony, L., and D'souza, N.:2012, **Community Placemaking: Using Participatory Methods to Inform Design Strategies**, Conference Presentation, Environment Design Research Association 43, Seattle

Moore, N. and D'souza, N.: 2012, **Understanding Personal Learning Environments of Students in a Wireless Coffee Shops**, Poster Presentation, Environment Design Research Association 43, Seattle

Chandrasekera, T., Yoon, S., and D'souza, N.: 2012, **Immersive Engines: Immersion in 3D Gaming Platforms through Soundscapes**, Poster Presentation, Environment Design Research Association 43, Seattle

D'souza, N. (*symposium leader*), Balakrishnan, B., Yoon, S., Chandrasekhara, T. and Lin, Y.-F.: 2011, **Virtual Environments: Virtual Behaviors**, Conference Presentation, Environment Design Research Association 42, Chicago

D'souza, N. (*symposium leader*), Balakrishnan, B., Yoon, S., Oprean, D.: 2010, **The Environment Behavior Paradox in Virtual Environments**, Conference Presentation, Environment Design Research Association 41, Washington DC

D'souza, N.: 2009, **Assessing Multiple Intelligences in Architectural Design: The ADIAS**. Important Theory and Practice in Multiple Intelligences, Panel Presentation, *American Educators Research Association*.

D'souza, N.: 2009, **Are Blended Environments Challenging the Classical Attributes of Environment and Behavior?** Conference Presentation, Environment Design Research Association 40, Kansas City

Yoon, S., D'souza, N., and Cho, J.: 2009, **Using Virtual Reality to Understand Differences in Cognitive Styles among Architecture and Interior Design students**, Conference Presentation, Design Communication Association, Atlanta, Georgia

G R A N T S

Detail on Grants

PI, Florida International University Technology fee proposal 2,24,280 (Under review), **The FIU L-Cube: Learning with Living Labs**, Co-applicant: Pedro Greer, FIU. Participating members: Edgar Vieira, Nipesh Pradhananga, Erica Musser, Francisco Ortega, Shahin Vassigh, FIU.

Co-PI, NSF Information and Intelligent Systems (IIS): Core Programs, \$500,000 (Under review), **Integrating Human Comfort with Dynamic System Operation to Support Healthy and Comfortable Indoor Environments**. PI: Lu Zhang, Co-PI, Nipesh Pradhananga, Co-PI Lin Chen-Xiang, Florida International University

Co-PI, Miami-Dade Age-Friendly Initiative Mini-Grants, \$2,380 (Under review), **Evaluating Environmental and Landscape features for Miami's Metrorail**, Edgar Vieira, PI.

PI, College of Communication, Architecture and the Arts Interdisciplinary Seed Grant Competition, 2016-2017, \$5,000, **An Underline for the Underserved: Exploring Simulation Research for Sustainable Aging in Place Around Miami's Metrorail**, Jan 2017, Florida International University. Co-PI Ebru Ozer, Landscape Architecture, Edgar Vieira, Physical Therapy, Iveris Martinez, School of Medicine.

Co-PI, Office of Research and Economic Development, Florida International University, **Integrating Multidimensional Human Factors and Indoor Environment Evaluation for Supporting Human-Centered Decision Making**

in **Indoor Environment Design**, Pilot Program to Promote Cross-College Collaboration, 2016-2017, \$2,000. PI: Lu Zhang, School of Construction.

PI, MU Faculty Development Leave and Project Award, \$11,000, **Documentation of Design works, Enhancing Industry Contacts, and Learning Unique Cultural Ethos of Reputed Design Schools**, Summer 2017, Aug 2016, University of Missouri.

PI, MU Research Council, \$10,000, **The Multi-Skilled Designer: A Cognitive Explanation for Diversity in Architectural Thinking**, Research Monograph for Book Publication at Taylor and Francis., Aug 2016, University of Missouri.

PI, MU Information Technology Committee Interdisciplinary Innovation Fund, \$33,660, **iSTUDIO: An Interactive Form-making Environment for Art and Architectural Teaching**, Oct 2013. Co-PI's: Asha Kutty, Architectural Studies; Matt Ballou, Fine Arts; Bimal Balakrishnan, Architectural Studies

Co-I, Seeding Interdisciplinary Research Collaboration (SIRC), \$1,500. 2014, **Interdisciplinary Post-occupancy Evaluation of a Reggio Emilia-inspired preschool in Kansas City**, Co-I's Ruth Tofle, Architectural Studies, Elke Alkenberger, Architectural Studies, Michelle Mathews, Child Development Laboratory.

Co-PI, MU Office of Vice Provost for Undergraduate Studies, \$12,000, October 2013 to June 2014. **In Search of the 21st Century Campus: Positing the Relationship between Informal Learning Environments and 21st Century Learning Skills**. Co-PI's: Asha Kutty, Architectural Studies and Arthur Mehrhoff, Art and Archeology.

PI, Agricultural Experiment Station, \$7,451.39 per year, Sept 2013-2016. **Conceptualizing Healing Gardens for Baptist Nursing Home at Ashland, MO**, United States Department of Agriculture.

PI, Mizzou Advantage, University of Missouri Strategic Initiative, Office of the Provost, \$24, 867.00, Jan 2013 to December 2013, **Creative Convergence Network –Phase 2 (CCN2): Impact of New Media on Interdisciplinary Creativity in Digitally-mediated Remote Collaborative Environments**.

Co-PI, University of Missouri, e-learning initiative, \$ 153,000, Feb 2013, **New Online Masters Concentration in Design Research**. Team members: Ruth Tofle and Bimal Balakrishnan (Department of Architectural Studies, MU).

PI, **Augmented Reality Technology for Architectural Education** \$1,000, MU Teaching with Technology Innovation Fund, 3013-2014, Co-PI: Tilanka Chandrasekhara

PI, Mizzou Advantage, University of Missouri Strategic Initiative, Office of the Provost, \$28,187.00, Aug 2011 to December 2012, **Creative Convergence Network (CCN): International Symposium on Assessment and Facilitation of Creativity in New Media**. Interdisciplinary Co-I Team: So-Yeon Yoon (Architecture), Bimal Balakrishnan (Architecture), Sanda Erdelez (Information Science and Learning Technology), Roger Cook (Film Studies), Suzanne Burgoyne (Theatre), Kathleen Unrath (Art education), Matt Kritis (Textile and

Apparel), Ken Sheldon (Psychology), Jeffrey Uhlmann (Computer Science), Julie Chatman (Graphic Design), Arthur Mehrhoff (Art and Archeology)

Co-PI, MU Research Council, \$3,724, Aug 2012 to August 2013, **Effects of Visual Cognitive Styles on Spatial Design Problem Solving: A Cross-Cultural Study of Korean and American Students Majoring in Architecture and Interior Design**, MU Research Council, PI: So-Yeon Yoon

PI, Research Board, University of Missouri System, \$21,366.00, March 2011 to March 2012, **Evaluating Creativity among Design Students Using a VRLE**. Co-PI's: So-Yeon Yoon, Bimal Balakrishnan

Co-I, MU Interdisciplinary Innovations Fund, \$31,315.00, March 2012 - August 2013, **Reality Capture and Simulation for Design Evaluation**, PI: Bimal Balakrishnan

Co-I, MU Interdisciplinary Innovations Fund, \$22,500, March 2012 - August 2013, **Leading the Future of the Retail Industry through Creating Digital/Virtual Student Project Showcases**, Co-PD's Jana Hawley, Myunghee Sohn and Jung Ha-Brookshire

Collaborator, Mizzou Advantage, University of Missouri Strategic Initiative, Provost Office, \$20,000.00, Aug 2011 to December 2012, **New Media, New Technologies, and the Future of the Arts**. PI: Robert Shay

PI, Margaret W. Mangel Faculty Research Catalyst Fund, Human Environment Sciences, University of Missouri, Columbia, \$2,500.00, August 2010 to August 2011, **Enhancing Creativity through a VRLE**, Co-PI's: So-Yeon Yoon, Bimal Balakrishnan

Co-I, MU Interdisciplinary Innovations Fund, \$31,315.00, March 2009 - August 2010, **Collaborative Design and Education (CoDE) Environment at the Immersive Visualization Lab (iLab)**, PI: Bimal Balakrishnan

Co-I, MU Interdisciplinary Innovations Fund, \$24,755.00, March 2009 - August 2010, **Immersive Visualization Lab (iLab)**, PI: Bimal Balakrishnan

Co-I, Margaret W. Mangel Faculty Research Catalyst Fund, \$2,850.00, March 2009 - August 2010. **Examining the Relationship between Design Intelligence and 3D Visualization Strategies for Architectural Design**, PI: Bimal Balakrishnan

Co-I, Faculty Development Project Award, \$3,100.00, February 2009 - August 2010, **Hybrid Design Studios in Architectural Studies: Combining Online Virtual and Physical Environment Instruction**, PI: So-Yeon Yoon

Co-I, Margaret W. Mangel Faculty Research Catalyst Fund, \$2,621.00, February 2009 - August 2010, **Understanding the Effect of Color Environments: Physiological and Self-Report Measures**, PI: So-Yeon Yoon

Co-PI, ET@MO Academic Transformation Fund for the project, Educational Technology at Missouri, \$5,200.00, August 2008 - August 2009, **Virtual Gallery for Architectural Studies' Student Projects**, Co-PI: So-Yeon Yoon

Collaborator, MU Interdisciplinary Innovations Fund 2008-2009, University of Missouri, \$25,000.00, August 2008 - August 2009, **Production of the movie "Venzaga Azteca,"** PI; Roger Cook and Jeffery Uhlmann

PI, Margaret W. Mangel Faculty Research Catalyst Fund, Human Environment Sciences, \$2,650.00, August 2007 - December 2008, **VR-Kids: Virtual Reality for Kids interested in Design Studies.**

Undergraduate Research Grants

Faculty Advisor, AIA AAH STERIS Student Design Charrette for **Healthcare Design**, \$6,000, Orlando Florida, 2017

Faculty Mentor, Project for Undergraduate Research Experience (PURE), \$2000, Lucas Wade, **Using Mind Mapping tools to explore Emotional Responses to Environmental Features of likely crime Areas at Mizzou Campus**, August 2015.

Faculty Mentor, Project for Undergraduate Research Experience (PURE), \$2000, Casey Osteen, Exploring Sustainable Flood Architecture Prototype Housing for Natural Disaster Victims, **Project Type Research for Showcasing Engineering Instrument of Thomas Edison at MU Engineering Lobby**, August 2015.

Faculty Mentor, Project for Undergraduate Research Experience (PURE), \$2000, Michael Ritchie, **Exploring Sustainable Flood Architecture Prototype Housing for Natural Disaster Victims**, August 2014.

Faculty Mentor, Project for Undergraduate Research Experience (PURE), \$2,000, Andrea Herries, **"Hands on, Minds on: Evaluating Investigative Experiences of Young Children in Outdoor Classrooms**, August 2014.

Faculty Mentor, Project for Undergraduate Research Experience (PURE), \$2,000, Karen Johnson, **Programing by Design; Autistic Spectrum Disorder Classroom Design**, Human Environmental Sciences, August 2013

Faculty Mentor, Project for Undergraduate Research Experience (PURE), \$2,000, David Eslahi, **Enhancing Creativity through Virtual Reality Learning Environments**, Human Environmental Sciences, August 2012

Faculty Mentor. Project for Undergraduate Research Experience (PURE), \$2,000, Nathan Moore, **Understanding Personal Learning Environments of Students in Online Coffee Shops**, Human Environmental Sciences, August 2011

Grants (finalist or unfunded)

PI, Graham Foundation for the Arts, **The Multi-skilled Designer: A Cognitive Foundation for Inclusive Architectural Thinking**, Book Production grant, \$ 7,000, Nov 2017.

PI, NSF Cyber Learning for Work in the Human-Technology Frontier, \$544,186 **EXP: Collaborative Research: Inspiring STEM Careers Through Embodied Field Visits using a Mobile Tangible Interaction System (MOTIS)**, Co-PI's: Shahin Vassigh, FIU; Tilanka Chandrasekera, OSU; Donna Russell, Walden.

PI, Association of Society for Interior Designers-Transform grant, **Embodying Wellness: Envisioning Elder-friendly Design Catalysts Using Psychophysiological Measures and Mobile Simulations**, \$70,0000, March 15th 2017, Finalist.

Co-I, Arts Place America Grant, **Development of Lexington Auditorium, and Civic Center**, Missouri, \$43,301, Co-I's Asha Kutty, Architectural Studies, Bimal Balakrishnan, Architectural Studies, Lee Anne Woolery University of Missouri Extension.

PI, **The 'Wow' Experience in Architecture, An Exploratory study using Psychophysiological, Neural and Behavioral Measures**, \$57,873, 2015, Hay Fund Neuroscience-Architecture Research Program, Academy for Neuroscience and architecture (ANFA), Co-PI's Karen Dobkins, University of San Diego, Upali Nanda, American Art Resources, Bimal Balakrishnan, Architectural Studies

Co-I, MU Information Technology Committee Interdisciplinary Innovation Fund, **'Swift 3D Scanner': Converting a smartphone to a precise and fast handheld 3D scanner**, \$24,977, Oct 2014. PI: Hadi Ali Akbarpour; Computer Science, Filiz Bunyak, Computer Science, Kannappan Palaniappan, Computer Science

PI, Graham Foundation for the Arts, **Architecture Design and its Multiple Approaches: Using Design Cognition as a Lens for Design Inclusivity**, Book Proposal, \$ 24,450, Sept 2014

White Papers and Research Reports

Towards a 21st Century Campus: Design Guidelines for Informal Learning Spaces at Mizzou, with Asha Kutty and Arthur Mehrhoff, University of Missouri, Columbia submitted to the Vice-provost of Undergraduate studies.

Revisoning Student Success Center at Mizzou, with Asha Kutty, Bimal Balakrishnan and Arthur Mehrhoff, University of Missouri, Columbia submitted to the Vice-provost of Undergraduate studies.

Milwaukee Idea Home Design Process Documentation, Milwaukee, 2006, Funded by the Community Design Solutions, School of Architecture and Urban Planning, UWM9.1 **The Focus on Energy Program**, Milwaukee, 2005, White paper proposals for Mayors Green Building Team, Milwaukee, State of Wisconsin treasury funded project, PI: James Wasley.

T E A C H I N G

COURSES TAUGHT

Graduate

Masters Thesis Studio (with Katie Rothfield, FIU)
Research Methods
Philosophy of Design Research (Ph.D. Core Course)
Environment-Behavior II (Ph. D. Core Course in Environment-Behavior emphasis)
Design Thinking and Creative Process (Design Research Concentration)

Human Factors Research for Design (Design Research Concentration)
 Graduate Orientation Seminar (Ph. D. Core Course)
 Place Making in Design
 Graduate Summer Workshop
 Graduate Problems Course: Research Methods and Prospecting the Research
 Readings in Environmental Design (Independent Studies)
 Graduate Design Studio
 Architectural Robotics (with Margie Skubic, Electronics and Computer
 Science, MU)

Undergraduate

Thesis Studio (Architecture)
 Thesis Studio (Interior Design)
 Design Studio IV (Interior Design)
 Design Studio IV (Architecture + Interior Design)
 Design Studio III (Architecture + Interior Design)
 Design Studio II (Architecture+ Interior Design)
 Design Studio 1 (Architecture + Interior Design)
 Programming for Thesis
 Human Factors Programming
 Problems in Environmental Design

Teaching Assistantship

Architecture Design studio 2
 Architecture Design studio 3
 Introduction to Architectural Theory (approx. enrollment 400)
 Introduction to Architectural History (approx. enrollment 400)
 Sketching
 Building Systems
 Environmental Control Systems and Architectural Technologies

GRADUATE ADVISING

Former Service as a Ph.D. Committee Chair

Lori Kinley, **Conceptualization of Place Identity in Virtual Learning Environments.**

Roy Young, **Moments of inspiration and Transformative Learning in Iconic House Museums.**

Mohammad Dastmalchi, **Creativity in Multidisciplinary Teams.**

Holly Rodwick, **Informal Learning Environments.**

Jennifer Stockhausen, **The Level of Control within Work Environments as Experienced by Millennials Entering the Work Force.**

Kinkini Chandrasekara, **Architectural Design Critique Process in the Digital Environment.**

Former Service as a Ph.D. Committee Member

Suining Ding, **Implementing Evidence-based Design and Shifting the Design Process: A Case Study.**

Amy Frisz, **An Investigation of Presence and Design Cognition in Blended Learning Environments.**

Gregory Galford, **Control through Architecture: The Environment of Isolation and how it Affects Behavior.**

Kathryn Rivera, **Autistic Environments.**

**Chair/member of
Completed Thesis and
Dissertations**

Member, Ph.D. Committee. Elke Altenburger, Fall 2016, Thesis: **The Spaces in between at Orbit High: An analysis of Teenage behavior During Breaks at School.**

Member, Ph.D. Committee. Sarah Angne, Spring 2016, Thesis: **Becoming Christ Cathedral: the Emergence, Rise, and Transformation of the Crystal Cathedral**

Member, Ph.D. Committee. Ellis, Natalie. Fall, 2015. Thesis: **A Descriptive Study of Workplace Attributes: Environmental Preference Index Examined Through Organizational System Preference.**

Member, Ph.D. Committee. Parker, Jan. Fall, 2015. Thesis: **Environmental Preferences of Users in Co-Located Colleges.**

Co-chair, Ph.D. Committee, Islam, AKM Z, 2015, Ph.D. Thesis: **Modality Shift in Design Process: Understanding the Rationality Behind Modality Shift and its Effect on Architectural Design.**

Member, Ph.D. Committee, Vo, Ng. 2015 **College Students' Choices of Informal Learning Spaces.**

Member, Ph.D. Committee, Anthony, L., 2015, **The Influence of Organizational Culture and Power on Status: How it is Manifested in the Open Office.**

Co-Chair, Ph.D. Committee. Chandrasekera, Fall 2015, PhD Thesis: **The effect of AR and VR interfaces on Epistemic Actions and Creative Process.**

Member, Ph.D. Committee, Danielle Oprean, 2014, PhD Thesis: **Understanding the Immersive Experience: Examining the influence of Visual Immersiveness and Interactivity on Spatial Experiences and Understanding.**

Member, Ph.D. Committee, Ahmed Alawadhi, 2014, PhD Thesis: **Perception of Crowding At Retail Stores: An Empirical Study examining the Effect of Design Factors on Approach Responses using Virtual Reality Simulation.**

Member, Ph.D. Committee, Yu-Fong Lin, 2014, PhD Thesis: **Retail Display Lighting on American and Taiwanese Consumers' Perception: Browsing in a Virtual Reality Store.**

Member, Ph.D. Committee, Christenson, R. , 2014, Ph.D. Thesis: **Transinstitutionalization: A case study of two residential care facilities in rural Midwest North America.**

Member, Ph.D. Committee, Marina Muraroli, 2014, PhD Thesis: **Exploring the Relative Impacts of Different Motivations to Adopt Green Housing Features.**

Member, Ph.D. Vivian Izsack, 2014, **Café, Culture and Community: Re-Establishing a Sense of Place in Little Havana's Calle Ocho.**

Member, Ph.D. Committee, Amanda Andrade, 2013, PhD Thesis: **A study of Workplace Attributes: 'Place to Work' Index examined through Organizational Preference.**

Member, Ph.D. Committee, Mario Paul, May 2013, PhD Thesis: **Factors that influence Ease of Wayfinding in a Hospital Setting**

Member, Ph.D. Committee, Emily Roberts, August 2012, PhD Thesis: **Legislating Home: The Impact of the Regulation of Small House Settings for Long Term Care Residents in Nova Scotia, Canada**

Member, Ph.D. Committee, Tommy Abercrombie, August 2011, Thesis: **Experience by Design: A Post occupancy Evaluation of the Tarrant County College Fire Service Training Center**

Member, Ph.D. Committee, Ellen Fischer, August 2011, PhD Thesis: **Using the Physical Classroom Environment as a Tool for Learning: A Case Study**

Member, Ph.D. Committee, 2011, Ji Young Cho, PhD Thesis: **The Pedagogy of Aesthetics: A Study of Three Architectural Design Studios.**

Member, Ph.D. Committee, 2010, Lynsey Schwabrow, PhD Thesis: **Part-time Schedules for Children in Campus Child Care Centers: A MAUT Analysis of Challenges Faced by Administrators**

Member, Ph.D. Committee, 2009, Kim Rich, PhD Thesis, **An Evaluation of Two University LEED Projects: A Case Study at Southern Methodist University**

Member, Ph.D Committee, 2010, Marianna Trost, PhD Thesis: **5S: A Case study**

Member, Ph.D. Committee, 2009, Diana Ingham, PhD Thesis: **Aging in the Farm: Towards a Model of Passionate Place Attachment**

Member, Ph.D. Committee, 2008, Brian Sinclair, PhD Thesis: **Urban Mongolia: An integrative culturally-sensitive sustainability-focused design + planning framework for Ger districts.**

Chair, Masters Committee, Thong Thai, 2012, Thesis: **Exploration of Formal Aesthetics in Extreme Rain Conditions: Design of a Buddhist Library in Vietnam**

Member, Masters Committee, 2012, Thesis: **Authentic Thresholds: Interior Design Client Involvement in the Creation of Sense of Home**

Member, Masters Committee, 2011, Susan Wampler, Thesis: **Methods and Strategies for Bridging Design Practitioner-Researcher Gap**

Member, Masters Committee, 2009, Chen Yang, **Professional Practice Experiences**

Member, Masters Committee, Christopher Cloyd, **A Study of Stereoscopic Image Creation with 3D Studio Max**, 2008

S E R V I C E

Scholarly /International Service

Book Reviewer, Invited Routledge Book Reviewer, Design Thinking, 2017

Reviewer, Design Communication Association Conference proceedings, Cornell University, 2017

Reviewer, Journal of Design Studies, Elsevier, 2013 to present

Reviewer, Design Communication Association, 2017-2018 Cornell University

Editorial Board, Journal of Design, Economics, and Innovation, 2015, Elsevier

Reviewer, International Journal of Design Creativity and Innovation, Taylor and Francis, 2012

Reviewer, Journal of Engineering Design, Special issue on Design Creativity, Taylor and Francis, from 2011

Reviewer, Journal of Learning Spaces, University of North Carolina Press, from 2011

Reviewer and member of Editorial Review Board, Handbook of Research: Didactic Strategies and Technologies for Education Incorporating Advancements, IGI Global, 2012

Reviewer, Environment Design Research Association, Washington DC, 2010

Reviewer, Design Communication Association, Montana, 2010

Book Reviewer, 'From Brief to Build,' Lawrence-King Publishing, National, January 2011

Faculty Mentor, Annual Graduate Student Workshop for the Environment Design Research Association, Seattle, 2012

Faculty Mentor, Annual Graduate Student Workshop Environment Design Research Association, Chicago, 2011

	Associate Editor , Design Principles and Practices: An International Journal, 2008
University and Departmental Service	<p>Member, Promotion and Tenure Committee, College of Communication, Art and Architecture, Florida International University, 2017 onwards</p> <p>Member, Curriculum Committee, College of Communication, Art and Architecture, Florida International University, 2016 onwards</p> <p>Member, Design Thinking Team, Carta Robotics Lab, 2017 onwards.</p> <p>Member, Health and Environments Consortium, Florida International University, 2017 onwards.</p> <p>Director of Graduate Studies, Department of Architectural Studies, College of Human Environment Sciences, University of Missouri, 2014-2016</p> <p>Member, Dean's Search Committee, College of Human Environment Sciences, 2016</p> <p>Member, Faculty Council, University of Missouri, College of Human Environment Sciences, Fall 2015</p> <p>Chair, Graduate Faculty Senate Awards Sub-Committee, University of Missouri, Columbia, 2014-15</p> <p>Member, Distance Learning Council, University of Missouri, 2014</p> <p>Member, Faculty Council on College Policy, College of Human Environment Sciences, 2014-2016</p> <p>Member, Graduate Doctoral Committee, Department of Architectural Studies, 2007-2016.</p> <p>Faculty Collaborator, Immersive Visualization Lab, 2012-16</p> <p>Member, Scholarship Committee, Human Environmental Sciences, 2009 to present.</p> <p>Participant, High School Art Day, Department of Fine Arts and Department of Architectural Studies, Human Environment Sciences, Fall, 2011</p> <p>Member, Status and Appeals Committee, Human Environmental Sciences, January 2007 to 2009</p> <p>Interviewer, Missouri Scholars, UM system, March 2008</p> <p>Competition judge, Recycling Art Gallery, Stotler Lounge, MU, 2010</p>
Faculty-led Student Projects	Emergency Room Revisioning for West Kendall Baptist Hospital , Graduate studio 4, Department of Interior architecture, Florida International University.

Architectural Robotics course teaching in Department of Computer Science, University of Missouri, Fall 2015, with Marge Skubic.

Design proposal for **Multi-cultural Chapel for Aloysius Institute of Management and Information Technology**, Mangalore, India, 2012.

Revisoning the Student Success Center at MU Campus. Vice-provost of undergraduate studies involving faculty and students from all 13 colleges at MU, 2013.

Renovation of Lyceum Theater Lobby, Arrowrock, Missouri, 2012

MU Students Veteran Memorial Wall, Memorial Union, 2012

BoardWalk 2011, **3rd place winner in the General Commercial category for Spearhead Resort**, Maryville University, International Interior Design Association

Faculty Mentor, Karen Johnson, national finalist, **2013 Gensler Brinkmann Scholarship competition**

Student work curation, Master's Thesis, Thong Thai, **The Rain Dance: Exploring Formal Aesthetics in a Buddhist Library Design**, Architectural Studies Rogers Gallery

Professional Development

10th Annual Architecture + Health Educators Summit, July 20, 2017, Chicago Illinois, Offices of Stantec | SLS at the Radisson Blu Aqua, Chicago IL

Cyberlearning 2017: What's Next? Making Connections to Shape the Future, The Center for Innovation Research in Cyber learning, CIRCL NSF April 18-19, 2017, Arlington, VA 22203.

Post-election Healthcare Design Colloquium, March 2, 2017, University of Miami School of Architecture, Miami, Florida.

IBM Design Thinking Workshop, American Institute of Graphic Arts, January, 2017, Florida International University, Miami Beach urban Studios, Miami, Florida.

Sculpting the Architectural Mind: Neuroscience and the Education of an Architect, March 6-7 2015, Academy of Neuroscience for Architecture, Brooklyn, New York.

Leadership Experience: Making the Move from Professor to Administrator—Is This for You? 2014, International Conference on College Teaching and Learning, Jacksonville, Florida.

Media Psychophysiology Boot Camp, January 2012, School of Journalism, University of Missouri, Columbia

Faculty Grant Writing Institute, May 2009, Selected by the MU's office of research, University of Missouri, Columbia

Past perfect Museum Software Training for Architectural Virtual Gallery, January 2009, College of Human Environment Sciences

ET@MO Teachnology, July 2008, Educational Technology at Missouri, University of Missouri-Columbia

44th Faculty Writing Workshop, 2008, Reynolds Alumni Center

VR Worlds: Online Workshop on Virtual Reality, April, 2007, SLOAN-C Workshop Series: Virtual Reality (VR) Worlds: Benefits and Uses for the Higher Education Professional

Media Coverage

Video highlighting the Study of Interdisciplinary Team Creativity, 2017. National Socio-environmental Synthesis Center (SESYNC) video series https://www.youtube.com/watch?v=4EBpLw8xauY&list=PLIGFwrZq94y_NoX0JaGet0mcuSGPhL-s7&index=2

Top Drawer: Highlighting the New and Noteworthy, April 2014. http://www.columbiatribune.com/business/saturday_top-drawer/article_f2a051c4-bc5a-11e3-af9c-0017a43b2370.html

MU's iLab opens doors to promote interaction, May 2014. http://www.columbiatribune.com/news/education/mu-s-ilab-opens-doors-to-promote-interaction/article_587fea1c-cd00-11e3-ab16-10604b9f7e7c.html

New memorial honors MU students who have died at war: Missing column said to represent impact, Nov 2013. http://www.columbiatribune.com/news/education/mu-s-ilab-opens-doors-to-promote-interaction/article_587fea1c-cd00-11e3-ab16-10604b9f7e7c.html

Mizzou Summit explores Creativity and New Media, News Daily, 2013 <http://www.newsdaily.com/article/e105d2d75134bf1ae7bf2570f366e95e/mizzou-summit-explores-creativity-and-new-media>

Virtual Reality Can Improve Design Skills in Younger Generation, MU Researcher Looks For Ways to Bridge Generational Technology Gap, MU News Bureau, March 3, 2011

MU Architecture Student's Design could become Permanent Veterans Memorial, Columbia-Missourian, November 2012

Membership in Organizations

Member, Environment Design Research Association, August 2008 to present

Member, Interior Designers Educators Council, 2012

Member, SIG-Creativity, International Conference on Engineering Design, Stanford University, 2009

Member, SIG-Multiple Intelligences, American Educators Research Association, San Diego, 2009

Member, American Educators Research Association, August 2008

Member, Design Communication Association, August 2007

PROFESSIONAL PRACTICE

ARCHITECTURAL and INTERIOR PRACTICE (Selected)

Residential Projects

Condominiums for M/s Motwani Builders (1,26,000 SFT), Zachariah Consultants, Bangalore, India, 1994

Mass Housing for M/s R. N. Shetty and Co. (20 Acres), Zachariah Consultants, Bangalore, India, 1994

Individual Residence for R. L. D'souza (2000SFT), M/s R. L. D'souza Consulting Engineer, 1999

Commercial Projects

Shopping Mall for M/s Brigade Developers (67,000 SFT), Zachariah Consultants, Bangalore, India, 1995

Shopping / Office Retail for M/s Real Deal Developers (48,000 SFT), Zachariah Consultants, Mangalore, India, 1995

Retail/Corporate Interior Design

Corporate Office Interiors for M/s Siemens India (3000 SFT), Zachariah Consultants, Bangalore, India, 1994

Titan showroom at Colombo for M/s Titan, R., D & M (1000 SFT), Bangalore, India, 1995

Levi Strauss showroom, Mumbai, 100 SFT, R., D & M, (1,000 SFT), Bangalore, India, 1995

Health Care Projects

Medical School and Residence Hostel for Father Muller's Charitable Institution (2,60,000 SFT), Neville D'souza Architects, Mangalore, India, 1998

Educational Facilities

School Building for Bethany Convent (60,000 SFT), Neville D'souza Architects, Mangalore, India, 1998