

ANIJO PUNNEN MATHEW

*Assistant Professor, Institute of Design, IIT Chicago
350 N. Lasalle St., 4th Floor, Chicago, IL-60654, USA*

1. CREDENTIALS

1.1 Academic Qualifications:

Doctor of Philosophy (PhD) Candidate

*Faculty of Mathematics, Computing, and Technology
The Open University, UK*

Supervisors:

Yvonne Rogers, Department of Computing
Peter Lloyd, Department of Design and Innovation
October 2007 - ~

Master in Design Studies (MDesS)

*Graduate School of Design (GSD)
Harvard University, USA
Focus: Digital Media and Production Environments
June 2003*

Bachelor of Architecture (B.Arch)

*(graduated top of class with Institute Gold Medal)
Birla Institute of Technology (BIT)
Mesra, Ranchi, INDIA,
May 2000*

1.2 Professional Experiences:

Assistant Professor

*Institute of Design
Illinois Institute of Technology
August 2008-Present*

Assistant Professor

*College of Architecture, Art, and Design
Mississippi State University
August 2003-June 2008*

Design Consultant

*Ambiaance Designs (formerly 3 Design Studio)
Mumbai, INDIA.
August 2003-January 2008*

Founder-Principal

*3 Design Studio
Mumbai, INDIA.
August 2001-September 2002*

Architect

*Design Combine
Kochi, Kerala, INDIA.
May-August 2001*

Marketing Executive (Regional Assistant Manager)

*HCL Infosystems Ltd.
Kochi, Kerala, INDIA.
May 2000-May 2001*

Trainee Architect

Architecture Autonomous

Goa, INDIA.

May-November 1999

1.3 Other Teaching Experiences:

Graduate Teaching Assistant

Graduate School of Design (GSD),

Harvard University

Teaching Assistant to Allen Sayegh, Alen Berger, George Hargreaves, and Hope Hasbrouck. Also involved in design and research with Allen Sayegh (@ INVIVIA) and through coursework with Stephen Intille (@ the Changing Places Consortium, MIT Media Lab).

2. SCHOLARSHIP

Summary:

My research interests fall within two broad areas – a) computation *for* design and b) computation *in* design. Within the former, I work towards a *scholarship of pedagogy* – looking at various prototyping methods and design mechanisms for the process of design. In the latter my work revolves around a *scholarship of research* – evaluating new semantic appropriations of architecture (place) as enabled by new technologies and media convergence. My scholarship has earned international repute in organizations such as ACM SIGCHI, ACADIA, and ARCC. In particular testimony to my work the Architectural Research Centers Consortium (ARCC) selected me as their New Researcher of the Year for 2006-07.

2.1 Research Affiliations:

Design Research & Informatics Lab

Mississippi State University
August 2003-June 2008

2.2 Research Projects:

2009 onwards: Just in Place Learning

Just in Place learning is learning in context.

Just in Place Learning is supported by several new technological advancements which allow us to weave virtual informatics into our physical environment. Environmental control systems; internet based systems for information exchange; advanced mobile technologies for instant communication; ubiquitous computing technologies, all enable information to be placed upon physical structures such as walls, floors, buildings, monuments, sculptures, streets, furniture etc. Just in Place Learning proposes to combine such technological systems with constituent elements of our physical world to enable the production, consumption, and sharing of knowledge in unique contexts where spatial, temporal and material configurations have meaning and relevance for learning.

In collaboration with Chicago Learning Network, a MacArthur Foundation sponsored initiative at the IIT Institute of Design and with William Mazarella, University of Chicago

2009 onwards: Engaging Prototyping and Sketching for Early Stage Decision Making

The types and complexity of problems that designers now tackle are expanding. Designers are no longer concerned with the object alone but must represent interrelated services and environments as a holistic design solution. This project looks at engaging prototyping and sketching methods at the early stages of design. The project interviewed several designers across different design practices including architecture, industrial design, interaction design, communication design, strategy and planning and constructed methodologies and tools that designers use for generative, evaluative and narrative prototypes. The project also outlines the process of building a culture in corporations and design firms around prototyping and sketching that is flexible and ready at hand.

AutoDesk sponsored project through the IIT Institute of Design.

2007 onwards: PhD Research - Beyond Technology: Aesthetics and Embodied Experience in Interactive Environments

As technology ubiquitously penetrates our lived experiences designers are exposed to new methods and manners of semantic appropriations of architecture and experience. New technologies like ubiquitous computing enable Human Computer Interaction (HCI) and Human Information Interaction (HII) to evolve from creating task and work oriented interfaces to designing embodied experiences. For designers, the understanding of place and qualities of experience will be crucial in the construction of principles underlining the design of (future) interactive spaces. This research is an attempt to understand the metrics and qualities of interactive technology that can enable designers to design intelligent places that can engage intercorporeal engagements beyond the limits established by technology.

External PhD at the Open University, UK under the supervision of Yvonne Rogers, Department of Computing and Peter Lloyd, Department of Design and Innovation

2007: Evaluation of Environmental Factors that Influence Health of Rural School Children

Research at rural schools to determine if architecture and design of schools and the communities they are set in have an influence on the health of school children with the explicit intention of future interventions to augment architectural design through interactive interfaces. The project also involves a social marketing campaign to introduce the concepts of a healthy lifestyle to rural populations.

Design Research & Informatics Lab in collaboration with MSU Food Science, Nutrition, and Health Promotion Department, and MSU Extension Service.

2007: “Health and Wealth” Delta Assessment Survey

A large (~1500 data set) quantitative survey to be deployed in south eastern United States (Tennessee, Arkansas, Louisiana, Mississippi) to evaluate healthcare delivery models (with special focus on acceptance of “intelligent” interfaces as a model to augment current models).

Design Research & Informatics Lab in collaboration with MSU Social Science Research Center (SSRC); Clinton School of Public Service, University of Arkansas; Harvard School of Public Health.

2006 - 2008: Computation in the Process of Design

Several projects evaluate and provide framework for the use of computational media and interfaces in the process of design. Primary components of this research are based on the Human-Computer-Interface (HCI) relative to digital design tools, i.e. Hardware (HW), Software (SW) and Input/Output (I/O) methods and strategies and the adoption of these tools by graduate design students.

Design Research & Informatics Lab; MSU CAAD Graduate Program

2006: WalkMSU: A Computer Mediated Intervention in Campus to Encourage Physical Activity

Spatial Intervention Project in MSU Campus to motivate college students to increase physical activity through ‘just in time’ interventions intended to improve awareness and persuade people to remain fit and healthy.

Design Research & Informatics Lab in collaboration with MSU Food Science, Nutrition, and Health Promotion Department; and MSU Center for Advanced Vehicular Systems (CAVS).

2006: Cat-Eyes: An Assistance System for Independent Shopping.

Concept and evaluation of an interactive visual + aural + tactile Interface developed to create a better shopping experience for physically challenged, old elderly people and people with visual impairment combining RFID with AR technology.

Design Research & Informatics Lab in collaboration with MSU Center for Advanced Vehicular Systems (CAVS).

2006: AuralScapes: Using Arrhythmic Sound to Augment Isolated Space

Implementation and evaluation of a computer mediated system in an isolated space that uses uninterrupted (arrhythmic) sound to provide an aural connection to the outside environment and evaluation of its influence on productivity.

Design Research & Informatics Lab; MSU CAAD

2006-2007: Focus Group Study Assessing Technology Acceptance in Rural MS

Focus Group Study at West Point and Meridian, MS to evaluate rural population’s perception of technology and “smart” homes to augment healthcare models. This study will be the first in a series of surveys and studies to understand rural acceptance of “intelligent” technology embedded within architectural spaces.

Design Research & Informatics Lab in collaboration with MSU Social Science Research Center (SSRC); the City of Meridian, MS; and Dugan Memorial Nursing Home, West Point, MS.

This study led to the book – “Technology to Aid Aging in Place - New Opportunities and Challenges” {see Publications}

2005-2008: Modular Housing Systems: Integration “Smart” Technology into Modular Architecture

Integration of emerging technologies in the process and product of architecture with an emphasis on Factory-Built Modular Housing Systems and technology transfer from the computing, aerospace, automotive, marine and furniture industries.

Design Research & Informatics Lab in collaboration with MSU Raspet AeroSpace Lab, MSU Franklin Institute of Furniture Manufacturing and Marketing (IFMM) and MSU Center for Advanced Vehicular Systems (CAVS).

2005: Prototype “Smart” Home for Meridian, MS.

Concept prototype – sketch designs and options for a retirement home based on “smart” technologies and “interactive” systems to augment traditional healthcare delivery models for elderly people.

Developed for AmeriCorps LIFE (Living Independence for Everyone); and City of Meridian, MS.

2003: Persuasive Computing and Digital Interfaces in a Subway Station

@ Harvard GSD + MIT Media Lab – Changing Places Consortium.

2.3 Awards/Recognitions:

2007: ARCC New Researcher of the Year

The Architectural Research Centers Consortium (ARCC) New Researcher of the Year is intended to acknowledge and reward emerging figures in architectural and environmental design research that demonstrate innovation in thinking, dedication in scholarship, contributions to the academy, and leadership. The award includes recognition at a national level, a plaque and monetary award, plus an honorarium to present research at the annual ARCC conference.

2000: Institute Gold Medal for 1995-2000 Batch (University Topper)

Birla Institute of Technology, Mesra, India honours top students with a certificate of merit and a gold medal to commend academic performance during their tenure.

2.4 Grants/Foundation Funding:

2009-10 AutoDesk Support

From AutoDesk with the IIT Institute of Design

Role: Principal Investigator (with Martin Thaler)

Proposal: Tools for Early Stage Decision Making in the Design Process

\$75000

2007-08 OMNOVA Solutions Foundation Monies

From the OMNOVA Solutions Foundation

Role: funding for CAAD DRIL

Proposal: Design and Development of "Smart" Technologies for Rural Homes

\$20000

2006-07 Delta Health Alliance, Inc.: Improving Health in the Mississippi Delta through Coordinated School Health Program - Health Resources and Service Administration (HRSA) + Department Health and Human Services

Role: Principal Investigator (sub contract proposal with MSU Food Science, Nutrition, and Health Promotion Department)

Proposal: Evaluation of Environmental Factors that Influence Health of School Children +Social Marketing Campaign to introduce concepts of healthy lifestyle in rural MS

\$40000

2006-07 Hearin Foundation Funding for Housing Research

The Robert M. Hearin Foundation and the College of Architecture, Art, and Design, Mississippi

Role: Co-PI (With Dr. Larry Barrow, Shilpi Kumar and Sarah Pittman)

Proposal: Housing Research – Augmenting Traditional Healthcare Models in the State of Mississippi.

\$30000

2005-08 Hearin Foundation Funding for Research and Development

The Robert M. Hearin Foundation, Mississippi

Role: Co-PI (With Dr. Larry Barrow, Shilpi Kumar and Sarah Pittman)

Proposal: Graduate Program – Curriculum Development + Rural Healthcare – Smart Housing.

\$270000 (\$170000 for research)

2004-05 Research Initiation Program Grant

Office of Research, Mississippi State University

Role: Principal Investigator

Proposal: Development and Evaluation of Social, Demographic and Healthcare Data in the State of Mississippi.

\$7500

2004-05 Humanities and Arts Research Program Grant

Office of Research, Mississippi State University

Role: Principal Investigator

Proposal: Study of Demography and Medical Healthcare Models in the State of Mississippi.

\$5000

2.5 Funded Projects:

2007: Informatics Design for ARCC

\$2000 (part service)

2007: Informatics Design for Tupelo Furniture Market, MS.

\$9000

2007: Informatics Design for Franklin Furniture Institute, MS.

\$9000

2007: Informatics and Branding Design for Saltillo Township, MS.

\$7800.

2007: Informatics Design for Alply Industries, MS.
\$6600 (part service).

2005: Informatics and Visualization for Riley Education and Performing Arts Center, Meridian, MS.
Riley Center for Performing Arts, Meridian, MS
\$12700.

2.6 Publications

2.6.1 Books:

[B.1] Technology to Aid Aging in Place - New Opportunities and Challenges – Lalatendu Satpathy and Anijo Mathew; published as a specialized book by VDM Verlag; November 2007.

2.6.2 Book Chapters:

[BC.1] RFID Handbook: Applications, Technology, Security, and Privacy
Book Chapter: *RFID Tagging and the Design of "Place"*. Invited by editors - Dr. Syed Ahson (Motorola Inc.) and Dr. Mohammad Ilyas (Florida Atlantic University); published by CRC Press in Spring 2008.

2.6.3 Edited Journal Publications:

[E.1] Mathew, Anijo; *Spring 2008* edition of the ARCC journal titled *Architecture as a Communicative Medium*. The issue invited papers that explore communication in its various forms in the design and/or critique of architecture. Discussion may include (but not limit to) study of historic precedents and theoretical constructs in the relationship of language and architecture; the use of semantic expression in the teaching of architecture; new semantic appropriations of architecture as enabled by new technologies; sustainability as a form of expression in architecture/design; as well as the evolution and extinction of architectural entities and philosophies in evolving socio-cultural contexts. Papers may present empirical research that deal with the design of architecture (and/or its elements) or speculative research that looks at theoretical frameworks for empirical work leading to the design of architecture (and/or its elements). We encourage participation from disciplines outside architecture (art, landscape, computation, planning) to frame design and the built environment within the context of semantics and linguistic expression.

Mathew, Anijo; *Editorial: Architecture as a Communicative Medium*. Published in the Spring 2008 edition of ARCC Journal. The ARCC Journal is the journal of The Architectural Research Centers Consortium (ARCC). The journal is a blind peer reviewed journal that invites submissions on a wide variety of topics in architecture, interior design, industrial design, planning, and landscape architecture. The issues of journal will occur twice a year and focus on specific themes of architectural research.

2.6.4 Refereed Journal Publications:

[J.1] Mathew, Anijo; *On Design Education: Reviving the Design Studio for the Millennials* Published in the International Journal of Architecture, Conservation and Urban Studies (ABACUS). Ed. Dr. Manjari Chakraborty; Spring 2008 Issue.

[J.2] Mathew, Anijo; *Interactive Dynamic Simulations: Experiencing Place through Digital Representation*. International Journal of Architecture, Conservation and Urban Studies (ABACUS). Ed. Ajay Khare; Fall 2006 Issue.

[J.3] Mathew, Anijo & Barrow, Larry; *Digital Design Methodology and Terminology: Evolving a Formal Language Framework for Pedagogy and Practice*. E-Journal: EAAE "Writings in Architectural Education" 2003-2005.

2.6.5 Refereed Conference Publications:

[C.1] Mathew, Anijo & Taylor, Justin; *AuralScapes: Engaging Ludic Ambiguity in the Design of a Spatial System*. In CHI '08: alt.CHI - Extended Abstracts on Human Factors in Computing Systems (Florence, Italy, April 4 – April 10, 2008). CHI '08. ACM Press, New York, NY, Pages 2533-2542. 2008

- [C.2] **Mathew, Anijo;** *Beyond Technology: Efficiency, Aesthetics, and Embodied Experience*. Proceedings of the 2007 Annual Conference of the Association for Computer Aided Design In Architecture (ACADIA), in conjunction with the Canada Design Research Network (CDRN) in Halifax, Nova Scotia; hosted by the Dalhousie University School of Architecture and NSCAD University. October 1-7, 2007
- [C.3] **Satpathy, Lalatendu, & Mathew, Anijo;** *“Smart” Housing for the Elderly: Understanding Perceptions and Biases of Rural America*. Proceedings of the 2007 Annual Conference of the Association for Computer Aided Design In Architecture (ACADIA), in conjunction with the Canada Design Research Network (CDRN) in Halifax, Nova Scotia; hosted by the Dalhousie University School of Architecture and NSCAD University. October 1-7, 2007
- [C.4] **Singh, Vikash & Mathew, Anijo;** *WalkMSU: An Intervention to Motivate Physical Activity in University Students*. In CHI '07 Extended Abstracts on Human Factors in Computing Systems (San Jose, CA, April 28 – May 3, 2007). CHI '07. ACM Press, New York, NY, 2657-2662. 2007
- [C.5] **Pobiner, Scott & Mathew, Anijo;** *Who Killed Design?* In CHI '07 Extended Abstracts on Human Factors in Computing Systems (San Jose, CA, April 28 – May 3, 2007). CHI '07. ACM Press, New York, NY, 1525-1528. 2007
- [C.6] **Kochak, Sneha & Mathew, Anijo;** *Design of a Personal Interface in a University Gymnasium to Encourage Student Usage*. 2006 CSCW (Computer Supported Cooperative Work) Extended Abstracts of the CSCW2006 international conference held at the Banff, Alberta, Canada, 4-8 November, 2006.
- [C.7] **Singh, Vikash & Mathew, Anijo;** *Nurse-Resident Interface for Efficient Workflow: Case Study and Design*. 2006 CSCW (Computer Supported Cooperative Work) Extended Abstracts of the CSCW2006 international conference held at the Banff, Alberta, Canada, 4-8 November, 2006.
- [C.8] **Taylor, Justin, Williams, Joe & Mathew, Anijo;** *The Significance of Arrhythmic Sounds in Interior Space*. 2006 CSCW (Computer Supported Cooperative Work) Extended Abstracts of the CSCW2006 international conference held at the Banff, Alberta, Canada, 4-8 November, 2006.
- [C.9] **Mathew, Anijo;** *Aesthetic Interaction: A Model for Re-thinking the Design of Place*. Proceedings of the 2006 Annual Conference of the Association for Computer Aided Design In Architecture (ACADIA) themed *Synthetic Landscapes*, University of Kentucky, held at Louisville, Kentucky 12-14 October, 2006.
- [C.10] **Taylor, Justin & Mathew, Anijo;** *The Value of Arrhythmic Sounds in Isolated Space*. Proceedings of the 2006 Annual Conference of the Association for Computer Aided Design In Architecture (ACADIA) themed *Synthetic Landscapes*, University of Kentucky, held at Louisville, Kentucky 12-14 October, 2006.
- [C.11] **Satpathy, Lalatendu, & Mathew, Anijo;** *RFID Assistance System for Faster Book Search in Public Libraries*. In CHI '06 Extended Abstracts on Human Factors in Computing Systems (Montréal, Québec, Canada, April 22 - 27, 2006). CHI '06. ACM Press, New York, NY, 1289 – 1294. 2006
- [C.12] **Satpathy, Lalatendu, Pierce, Nathaniel & Mathew, Anijo;** *Cat Eye: An Assistance System for Independent Shopping*. Proceedings of 2006 International Conference on Aging, Disability and Independence (ICADI) national conference at St. Petersburg, FL. February 1-5, 2005.
- [C.13] **Mathew, Anijo & Satpathy, Lalatendu;** *Smart Spaces, Responsive Environments, and Assistive Technology: The Role of The Designer*. Proceedings of 2006 International Conference on Aging, Disability and Independence (ICADI) national conference at St. Petersburg, FL. February 1-5, 2005.
- [C.14] **Mathew, Anijo;** *Smart Homes for the Rural Population: New Challenges and Opportunities*, Proceedings of the 2005 Annual Conference of the Association for Computer Aided Design In Architecture (ACADIA) themed *Smart Architecture: Integration of Digital and Building Technologies I* ISBN 0-9772832-0-8] Savannah (Georgia) 13-16 October 2005, pp. 24-35. 2005
- [C.15] **Barrow, Larry & Mathew, Anijo;** *Digital Design and Manufacturing – A New Era of Visualization and Representation*. Proceedings of 2005 Design Communication in Architecture (DCA) bi-annual national conference at Montana State University in Bozeman, MN themed *Pixel Pencil Progression*. August 31 - September 3, 2005.
- [C.16] **Mathew, Anijo;** *The Use of Interactive Dynamic Simulations for the Purpose of Architectural Presentation*. Proceedings of 2005 ARCC (Architectural Research Centers Consortium) National

Conference on Architectural Research in Jackson, MS entitled, *The Reach of Research*. Mississippi State University - College of Architecture, Art & Design. April 6-9, 2005.

- [C.17] **Mathew, Anijo:** *Using the environment as an interactive interface to motivate positive behavior change in a subway station*. In CHI '05 Extended Abstracts on Human Factors in Computing Systems (Portland, OR, USA, April 02 - 07, 2005). CHI '05. ACM Press, New York, NY, 1637-1640. 2005

2.6.6 Popular Articles/Newsletter Articles/Citations:

- [A.1] **Look...it's alive!**
Report from the ACADIA 2007 Metabolic Network Sensory Workshop
ACADIA (Association for Computer Aided Design In Architecture) Newsletter Volume 4:07
Invited by Philip Beesley, Mahesh Sengala (President), and Aron Temkin (Newsletter Editor) of ACADIA. 2007.
- [A.2] **Look...it's alive!**
Report from the ACADIA 2007 Metabolic Network Sensory Workshop
CDRN (Canadian Design Research Network) Newsletter October 29 issue
Invited by Philip Beesley, Douglas MacLeod (Executive Director), and Kate Andronov (Communications Coordinator) of CDRN. 2007.
- [A.3] **Smart Homes for Healthcare**
Popular article for ArchitectureWeek at the invitation of B.J. Novitski, Managing Editor and Kevin Matthews - Editor in Chief
ArchitectureWeek Page T1.1. 02.15.06 edition. http://www.architectureweek.com/2006/0215/tools_1-1.html. 2006.
- [A.4] **World Trade Center Memorial Site Competition**
<http://www.wtcsitememorial.org/ent/entl=832520.html>. 2003.

2.7 Other Peer-Reviewed Work:

- [W.1] **Pobiner, Scott, Mathew, Anijo, Taylor, Justin;** *What is a CHI Portfolio?* Design Community Event at CHI 2008; Florence, Italy, April 5-10, 2008.
- [W.2] **Pobiner, Scott (Parsons The New School for Design) & Mathew, Anijo (Mississippi State University);** *Who killed Design?* Interactive Session. CHI 2007 Trends.
Panel Session at CHI 2007 with panelists: Meg Armstrong (*Parsons The New School for Design*); Bill Moggridge (*IDEO*); Terry Winograd (*Stanford HCI*); Bill Buxton (*Microsoft Research*).
- [W.3] **Mathew, Anijo;** *Aesthetic Interaction: A Model for Re-thinking the Design of Place*, Mississippi State University College of Architecture, Art, and Design Research Symposium. 10 November 2006.
- [W.4] **Mathew, Anijo;** *Smart Homes for the Rural Population: New Challenges and Opportunities*, Mississippi State University College of Architecture, Art, and Design Research Symposium. 10 November 2006.
- [W.5] **Mathew, Anijo (Mississippi State University) & Senagala, Mahesh (University of Texas at San Antonio);** *Smart Futures*. Plenary Session at ACADIA (Association for Computer-Aided-Design in Architecture) annual international conference entitled - *Synthetic Landscapes*, University of Kentucky, held at Louisville, Kentucky 12-14 October, 2006. Panelists: Michael Fox (Fox Lin Inc.), John Nastasi (Nastasi Architects), Tristan d'Estree Sterk (oframBFRA), Murali Paranandi (Miami University).

2.8 Technical Reports:

- [T.1] **Mathew, Anijo;** *Development and Evaluation of Social, Demographic and Healthcare Data in the State of Mississippi*; Technical Report submitted to the Office of Research at Mississippi State University in fulfillment of the Research Initiation Grant 2004-05.

2.9 Student Peer Reviewed Publications and Exhibitions:

- [S.1] **Salamanca, Juan, Miller, Timothy, & Leidolf, Anthony;** *Storytelling Platform Based on Emotional Levels*. Proceedings of the 2009 Conference of the International Association of Societies of Design Research: Rigor and Relevance in Design. Seoul, South Korea. 18-22 October, 2009.
- [S.2] **Patel, Rohit;** Student Exhibition: *Hybrid Representation: Mixing Media*. Graduate Student Exhibition, College of Architecture, Art, and Design Giles Gallery, Mississippi State University. 2007
- [S.3] **Satpathy, Lalatendu;** Seminar Presentation: *Cat Eye: An Assistance System For Independent Shopping for Physically Challenged and Visually Impaired People*. Graduate Research Symposium, Mississippi State University, Mississippi State. 2006
- [S.4] **Wang, Guochang;** *Lycée Jules Verne School designed by Architecture Studio*; DCA Juried Design Communication Exhibition. Design Communications in Architecture (DCA) National Conference; Montana State University. 2005
- [S.5] **Palamwar, Vrushali;** *Room Interior*; Design Drawing Exhibition. DCA Juried Design Communication Exhibition. Design Communications in Architecture (DCA) National Conference; Montana State University. 2005
- [S.6] **Palamwar, Vrushali;** *Chapel for the Capuchinas Sacramentarias del Purismo Corazon*; Design Drawing Exhibition. DCA Juried Design Communication Exhibition. Design Communications in Architecture (DCA) National Conference; Montana State University. 2005
- [S.7] **Bagavandas, Mythili;** *Mexican Colors*; Design Drawing Exhibition. DCA Juried Design Communication Exhibition. Design Communications in Architecture (DCA) National Conference; Montana State University. 2005
- [S.8] **Bagavandas, Mythili;** *Chapel on Mt. Rokko, Kōbe, Hyogo by Tadao Ando*. DCA Juried Design Communication Exhibition. Design Communications in Architecture (DCA) National Conference; Montana State University. 2005
- [S.9] **Wang, Guochang;** images published - *ELEMENTAL - The World's Best Discreet Art*. Ballistic Publication, 2004

2.10 Invited Talks and Presentations

2007: Interactive Session

Who killed Design?

Interactive Session at CHI 2007 Trends. Panelists: Meg Armstrong (*Parsons The New School for Design*); Bill Moggridge (*IDEO*); Terry Winograd (*Stanford HCI*); Bill Buxton (*Microsoft Research*).
San Jose, CA. April 30, 2007

2007: Keynote Presentation

Interactive Architecture: Re-thinking the Design of Place

Keynote Presentation at ARCC 2007 Spring Research Conference: "Green Challenges in Research, Practice, and Design Education"
Eugene, Oregon. April 18, 2007.

2006: Plenary Session

Smart Futures

Plenary Session at 2006 Annual Conference of the Association for Computer Aided Design In Architecture (ACADIA) themed *Synthetic Landscapes*, University of Kentucky, held at Louisville, Kentucky 12-14 October, 2006. Panelists: Michael Fox (*Fox Lin Inc.*), John Nastasi (*Nastasi Architects*), Tristan d'Estree Sterk (*oframBFRA*), Murali Paranandi (*Miami University*).
Louisville, KY. October 13, 2006.

2.11 Workshop Taught/Organized:

2009: Rapid Prototyping for Mobile Experiences

(Oscar Murillo, Microsoft's Strategic Prototyping Group, organized by Anijo Mathew)
IIT Institute of Design
Chicago. October 29-30, 2009

The one and a half day workshop will explore using rapid prototyping techniques to design compelling end - user mobile experiences for communities that until now may have been underserved by mobile software and hardware implementations. By the end of the workshop, participants will be asked to propose a mobile application, service and/or device design and, through re - enactment, illustrate how it will be employed by their target persona in a real world scenario.

2009: Sketching with Hardware

(Dave Vondle, IDEO, organized by Anijo Mathew)
IIT Institute of Design
Chicago. October 17, 2009

This workshop extends the Thinkering with Hardware workshop. Sketching is a tool for conveying and capturing the right level of information as quickly as possible. When designing for interactive systems there is often value to bringing sketching off of the notepad and realizing the interaction in technology. In this workshop you will be introduced to a set of tools (in this case, Arduino + Flash/Actionscript) and will break into teams to create a game that incorporates a variety of physical interactions.

2009: Bauhaus Labs

(taught by Anijo Mathew with Martin Thaler)
IIT ID/School of the Art Institute/Bauhaus University Weimar
Chicago. May 28-June 12, 2009.

This workshop revisits the intensive summer sessions initiated by visionary artist and educator László Moholy-Nagy who brought together a collective of teachers possessing broad, multi-disciplinary views to work directly with students. The objective of the 3 week workshop is to give students a deeper knowledge of the design process based on principles of design. This encompasses original principles expressed by the founders of the Bauhaus and a reinterpretation of these principles extended to encompass the viewpoint of designers today.

2009: Thinkering with Hardware

(taught by Anijo Mathew)
IIT Institute of Design
Chicago. March 28, 2009.

This workshop is designed to help interaction designers learn to “thinker” through tinkering with physical computing artifacts. The idea is to bring together talented individuals from the realm of interaction design, introduce them to new concepts/artifacts in the realm of physical computing, and allow them to put the two together. Most importantly, it will be an opportunity for interaction designers to get their hands dirty with electronics, soldering, and wiring, and learn how to interface hardware artifacts with virtual interactions.

2.12 Workshop Participation:

2007: Metabolic Networks Sensory Workshop

ACADIA (Association for Computer Aided Design in Architecture) 2007
Halifax, Nova Scotia. October 1-2, 2007.

2005: HCI Challenges in Health Assessment

CHI (Human Factors in Computing Systems) 2005
Portland, Oregon. April 2-7, 2005.

2.13 Patents:

Provisional Patent Application – Interactive Eyewear Apparatus and Method for Independent Shopping

S. No. 60/763866 (Disclosure # 04-1214-127) with Mississippi State University - Office of Intellectual Property and Technology Licensing. Design Research & Informatics Lab with co-inventors: Larry Barrow, Sarah Pittman, Shilpi Kumar, Lalatendu Satpathy and Nate Pierce.

2.14 Competitions:

2005: Entry: Luxe Pack Design Award
Co-designer, Mississippi State University - DRIL

2003: Entry: World Trade Center Memorial Site
Co-designer, Harvard University-MIT
<http://www.wtcsitememorial.org/>

2003: Entry: Animated Short for Siggraph 2003: Ned Sloman in Happy Anniversary.
Team Member, Department of Continuing Education (DCE), Harvard University

2001: Honorable Mention: Cross Country Vehicle Design for the 4th Annual International Mitsubishi Motors Design Competition
Co-designer
Industrial Design Centre, Indian Institute of Technology, Bombay, INDIA

3. TEACHING

3.1 Teaching (Curriculum Development):

IIT Institute of Design – Prototyping Initiative

Active role in developing a culture of prototyping at the IIT Institute of Design. The initiative started with a summer project, sponsored by AutoDesk which looked at prototyping across multiple platforms.

The initiative aims to answer the following questions:

What do students need to know? [CURRICULUM]

How can students get it? [COURSES]

Where does it fit in the broader ID vision? [CONTEXT/PROTOCOLS]

What can ID provide? [TOOLS/INFRASTRUCTURE/POLICY]

. with Martin Thaler.

IIT Institute of Design – Interaction Design Track

Active role in developing new courses and material for the Interaction Design/Communication Design tracks at the IIT Institute of Design with John Grimes, Tom MacTavish, and Martin Thaler.

MSU CAAD Graduate Program – Design+Technology Emphasis Area – HCI Track

The College of Architecture, Art, and Design's Graduate Program leading to a Master of Science in Architecture was established in 1995. In 2003, an emphasis area in Design+Technology was developed in collaboration with Dr. Larry Barrow that looks at computational media and the relationship between representation, interaction and communication. Within this broad area, a specific curriculum in Interaction Design was developed specifically such that graduate students can explore concepts of HCI/HII and its relationship with architecture and design.

3.2 Teaching: Courses at IIT ID (* indicates new independent courses developed)

Interactive Environments*

The Interactive Spaces seminar will look at different variations of interactive and reactive spaces, evaluating current research and designs in this field. The seminar will concentrate on the construction of virtual space, identities and characteristics of physical and virtual actors, immersion of computing into physical space, and hybrid environments. Students will use a case-study method to study and critique examples of interactive spaces. Through these examples, students will be able to evaluate the technological, economic, and socio-cultural implications of “new” interactive spaces and places which offer new ways of working, playing, praying, learning etc. External speakers may be invited to participate in the discourse when available.

Extensions of Media and Technology*

The Extensions of Media and Technology seminar is designed to engage students in a critical discussion about contemporary media and technology and the socio-cultural contexts in which they are situated. Theoretical notions as well as contemporary critique of media, technology and their appropriations are explored through the discussion sessions. Based on the topic of discussion each week, students will also be asked to critique designs that engage (or do not engage) user experience and embodied interaction; or define (or do not define) extensions of media and technology in specific social and cultural contexts.

Communication Design Workshop*

This Communication Design Workshop enables students to evaluate sketching and prototyping techniques in the early stages of the design process. The students work on a tangible interaction design problem through numerous conceptual, behavioral schematics and design narratives which communicate the intention of the designer as well as evaluate user experience. At the end of the workshop, students are expected to come up with innovative design solutions for the interaction design problem as well as engage in discussions about the evolution of their schematics through multiple layers of sketches, prototypes and communication peripherals.

Interactive Media Workshop

This Interactive Media Workshop enables students to explore communication through both theoretical and constructive perspectives. Tutorials, case studies, and design methods are used to investigate communication designs in large and small scale environments. Exploratory and evaluative methods are used to prototype interactive interfaces; while emerging technologies and media are used for the design of different levels of conceptual and developmental prototypes. At the end of the workshop, students are expected to come up with designs which incorporate new semantic appropriations of places and products: examining the possibility of physical architecture/physical artifacts as elements of connectivity that help users to mediate between the information world and everyday physical activity.

Ubiquitous Computing*

The seminar is designed to engage students in a focused discussion about Ubiquitous Computing and its applications. The lecture sessions explore social and technical foundations that lead to the development of ubiquitous computing technologies; students are expected to read critical viewpoints of the technology from the perspective of today's socio-cultural contexts as well as engage in discussion about the implication of ubiquitous computing on design and society.

3.3 Teaching: Courses at CAAD (* indicates new independent courses developed)

Architecture and Virtual Spaces (AVS)*

Internet technology has transformed many processes and conditions; physical and virtual worlds have become intertwined in a heretofore unknown social and cultural condition. Physical architecture is now often augmented, and at times, supplanted by virtual architecture. The student will explore these phenomena via research in virtual spaces and places which are offering new ways of working, playing, praying, and learning.

Interactive Media (IM)*

We are constantly interacting with our environment and surrounding, hence any design involves interaction design. However the field of Interaction Design specifically looks at interaction problems and evaluates solutions for these problems in spatial and product design. This course attempts to bridge the gap between architecture and interaction design through projects that explore the design, implementation and testing of interactive spaces and products.

Digital Design Studio

The course explores current technologies with a concentration on digital design techniques and the use of digital tools – sketch interfaces, 3d modeling interfaces, and CAD/CAM resulting in physical and virtual output. The influence of technology on design, representation and the practice of architecture, or the student's respective field, is reviewed. Students are asked to place emphasis on the product and process evolution through the use of both new and traditional design technology and interaction with the interfaces/media is evaluated.

Storytelling in Computer Animation (SCA)

Emerging digital media offers new means of expression and communication of information. This course, Storytelling in Computer Animation, focuses on cinematography and design. The student is challenged to understand use of the camera as an extension of the viewer's eye, as well as compositing and special effects.

Special Topics in Architecture – Interaction Design* + Information Design*

Design is taking on new meaning and today's architects have to negotiate with two kinds of computer usage – first, the use of digital media as a tool *in* the design of spaces, and second, the use of digital media embedded *within* designed spaces. These Special Topics allow design students to explore the fields of Interaction Design and Information Design in both virtual and physical environments. The courses are designed so that the student can chose "independent" projects that move from conceptual level thinking to implementation as real world artifacts or interfaces.

Special Topics in Architecture – Visualization*

Visualization in the context of new computing tools brings a new context of reference within the realm of architecture and architectural practice. This Special Topics is designed to help students explore the various computational and traditional media types available in today's market. Students are encouraged to mix media types and to experiment with multimedia, hypermedia and hybrid media renderings. The course is designed such that the student has control over the content of the visualization.

Meridian Summer Design Studio – Design of "Smart" Retirement Community to Aid Healthy Aging

Designed and taught a Summer Studio for undergraduate Architecture students to evaluate and design a space that uses technology to help the elderly age in place and promote independent living. The design studio was located at the E.F. Young Hotel in the heart of the African-American Business District in downtown Meridian, MS. Student research on the viability of such a project and individual design schemes/ideas were presented to the City of Meridian. The project received considerable press coverage in state and local newspapers as well as a mention on the City of Meridian website. *The project was sponsored in part by the Hearin Foundation; the John C. Stennis Institute of Government; and the City of Meridian.*

3.4 Student Awards:

ARCC King Medal for Outstanding Research 2006

Satpathy, Lalatendu; 2006; Awarded to a graduate student by the Architectural Research Centers Consortium for excellence in architectural research.

MSU Office of Research Graduate Student Researcher Award 2005-06

Satpathy, Lalatendu; 2006; Awarded to a graduate student by Mississippi State University's Office of Research for the best graduate student research in the University.

MSU-Graduate Student Association Research Award 2006

Satpathy, Lalatendu; 2006; Awarded to a graduate student by Graduate Student Association at MSU for excellence in student research.

Graduate Student Scholarship

Satpathy, Lalatendu; International Conference on Aging, Disability and Independence (ICADI). 2006. Scholarship to attend conference. 20 students awarded internationally.

Design Drawing Exhibition – Best of Show (Graduate Observation Image category) Bagavandas, Mythili; *Chapel on Mt. Rokko, Kolle, Hyogo by Tadao Ando*; 2005 DCA Juried Design Communication Exhibition

Design Drawing Exhibition – Citation Award (Graduate Design Image category) Bagavandas, Mythili; *Mexican Colors*; 2005 DCA Juried Design Communication Exhibition

ARCC King Medal for Outstanding Research 2005

Wang, Guochang; 2005; Awarded to a graduate student by the Architectural Research Centers Consortium for excellence in architectural research.

3.5 Invited Class Presentations and Juries:**2009: School of the Art Institute of Chicago**

Design Jury Member
Architecture, Interior Architecture and Designed Objects Department

2007: Lecture Presentation

Ubiquitous Computing in our Lived Environment
ABE 4473: ELECTRICAL APPLICATIONS
Agriculture and Bio Engineering Department
Mississippi State University

2007: Lecture Presentation

Design of Spaces and Healthy Behavior
Learning Communities: OBESITY, WEIGHT MANAGEMENT, AND SOCIETY
Mississippi State University

2006: Lecture Presentation

Design of Spaces to Motivate Healthy Behavior amongst Inhabitants
Learning Communities: OBESITY, WEIGHT MANAGEMENT, AND SOCIETY
Mississippi State University

3.6 Student Theses (Advisor):**2006: Lalatendu Satpathy**

Smart Housing: Technology to Aid Aging in Place - New Opportunities and Challenges

Abstract: With cheaper and more ubiquitous computing, "smart" spaces and responsive environments are increasingly becoming plausible and affordable. Can the profession of architecture respond to current computing technologies? Most critics agree that one of the first (most important) problems that "smart" homes will help to address is that of spiraling costs of elderly healthcare and care giving. But what is the problem with healthcare? Will the technologies that are designed for the urban home work in a rural setting? The thesis addresses the above questions through research of current problems and models of rural healthcare and through a documentation of existing studies and a focus group study at Meridian, MS. The thesis also examines the role of architecture (and architects) in the context of ubiquitous computing and "smart" spaces in rural areas.

3.7 Student Theses (Committee Member):**2006: Shaima Al' Arayedh**

The Mass Housing Dilemma - An Industrial Design Process in Architecture

3.8 Student Independent Studies (Selected):

2007:

Rohit Patel

Hybrid visualization – mixing traditional and digital media types

Lauren Bridges

Evaluating the use of Visualization for Sustainable Interior Design

Rohit Patel

Design and Visualization of an Urban Intervention in Venice

Lauren Bridges

Evaluating the use of Visualization for Architectural/Interior Preservation

Joy Ting

Interactive Product for Music Education in Elementary Schools

2006:

Sneha Kochak

Wayfinding Design for the Blind

Joe Williams

Design and Fabrication (CAD/CAM) of a Table Unit for Tablet PC Interaction

Vikash Singh

Database Driven Web Interface for MSU CAAD Alumni

Vikash Singh

Computer Mediated Intervention in Campus to Encourage Physical Activity

Julie Bartholomew

Evaluation of Interior Design Students' use of Computation in the Design Process

Sneha Kochak

Design of a Personal Interface in a University Gymnasium to Encourage Student Usage

Joe Williams

Design of a Spatial Informatics System in Campus for Event Information

Justin Taylor

Using Arrhythmic Sound to Augment Isolated Space

Seishi Unuma

Global Illumination Techniques to Render Interior Spaces

Vikash Singh

Nurse-Resident Interface for Efficient Workflow: Case Study and Design

2005:

Vrushali Palamwar

Simulated Lighting Design to Mimic Global Illumination Techniques

Gouchang Wang

Color Bleeding in Globally Illuminated Spaces

Namratha Emmela

Ambient Sensing Systems in Rural Homes to Aid Aging in Place

2004:

Mythili Bagavandas

Evaluation of Global Illumination Techniques for Accurate Lighting Simulations

4. SERVICE

Notable Service Assignments:

In 2009, I was **invited to chair the Design Community at CHI2010** by Elizabeth Mynatt, chair for 2010 with Scott Pobiner, Assistant Professor and Director, Design and Management program at Parsons, The New School for Design. The ACM Conference on Human Factors in Computing Systems (CHI) series of academic conferences is generally considered the most prestigious in the field of human-computer interaction. It is hosted by ACM SIGCHI, the Special Interest Group on Computer-Human Interaction. CHI has been held annually since 1982 and attracts thousands of international attendees.

In 2009, I was **nominated and elected from the Steering Committee as the Membership Co-ordinator for Association for Computer-Aided Design in Architecture (ACADIA)**. ACADIA was formed in the early 1980's for the purpose of facilitating communication and critical thinking regarding the use of computers in architecture, planning and building science. ACADIA is considered the premier organization of architectural computing in the country and its membership consists composed of educators and practitioners who work in the field of computing and architectural research.

Since 2009, I serve as an **ex-officio board member of the Architectural Research Centers Consortium (ARCC)**. ARCC is an international association of architectural research centers committed to the expansion of the research culture and a supporting infrastructure in architecture and related design disciplines. Since its founding as a non-profit corporation in 1976, ARCC has represented a concerted commitment to the improvement of the physical environment and the quality of life.

In 2008, I was **invited to co-chair the Design Community for CHI 2009**. My colleagues in the community include Mark Baskinger of Carnegie Mellon University School of Design and Robert Fabricant, Executive Creative Director at Frog Design.

In 2008, I was **nominated and elected to the Steering Committee** of the Association for Computer-Aided Design in Architecture (ACADIA) with the term beginning in October 2008.

In 2007, I was **invited to chair the Research and Student Initiatives sub committee on the board of the Association for Computer-Aided Design in Architecture (ACADIA)** by Mahesh Senagala, President of ACADIA. My sub committee colleagues include Michael Fox, Founder and Principal of Fox Lin Inc. and Assistant Professor of Architecture at Cal Poly Pomona; and Yehuda Kalay, Professor of Architecture at UC Berkeley.

In 2007, I was **nominated and elected to the board member of the Architectural Research Centers Consortium (ARCC)**. ARCC is an international association of architectural research centers committed to the expansion of the research culture and a supporting infrastructure in architecture and related design disciplines. Since its founding as a non-profit corporation in 1976, ARCC has represented a concerted commitment to the improvement of the physical environment and the quality of life.

In 2006, I was **invited to be part of the editorial advisory and review board of the Journal of Architecture, Conservation and Urban Studies (ABACUS)**, an international research journal by Dr. Ajay Khare, Head of Department of Architecture at Birla Institute of Technology, India.

Chair of Lecture Series at CAAD (2004-07)

In the position of Chair of the Lecture Committee I have corresponded with and invited several architects, designers, and artists to speak at the College of Architecture, Art, and Design. Speakers include: James Turrell, Charlie Lazor, Peter Eisenman, SHoP, MADE, Smith-Miller+Hawkinson, SIMPARCH, Grace La – James Dallman, Sean Godsell, Crispin Sartwell, Alberto Perez-Gomez, Mark West, John Nastasi, Jae Cha, Trey Trahan among others.

Faculty Advisor to the National Organization of Minority Architecture Students (NOMAS)

I have acted as the faculty advisor to NOMAS since 2005. In this period, I initiated the idea of, as well as helped NOMAS design and organize the NOMASymposium. The NOMASymposium is an annual student driven event (fund raising, invitation, organization) with participation from renowned architectural professionals and practitioners from the southern region. From its inception in 2004, it has grown into a regional event with several minority architects and designers of repute participating.

4.2 Committees/Boards (University/College):

Strategy and Planning - Outreach
College Committee

Illinois Institute of Technology
2009-present

Honorary Degree Committee

University Committee
Illinois Institute of Technology
2008-present

Lecture Committee [Chair 2004-2007]

College of Architecture, Art, and Design
Mississippi State University
2007-present

Faculty Advisor, National Organization of Minority Architecture Students (NOMAS)

Mississippi State University
2004-present

Graduate Curriculum Committee

College of Architecture, Art, and Design
Mississippi State University
2003-present

Graduate Admissions Committee

College of Architecture, Art, and Design
Mississippi State University
2003-present

College Library Committee

College of Architecture, Art, and Design
Mississippi State University
2004-present

College Faculty Hire Committee

College of Architecture, Art, and Design
Mississippi State University
2004-present

College Review Committee - Research Initiation Proposal Grant

College of Architecture, Art, and Design
Mississippi State University
2006-07

Faculty Advisor, Indian Students Association (ISA)

Mississippi State University
2005-06

4.3 Conference Volunteer:

Reviewer for CHI 2010, 2009, 2008, 2007

Reviewer for papers, workshops, and extended abstracts for the International Conference on Human Factors in Computing Systems.

Reviewer for ACADIA 2009, 2007

Reviewer for papers for the Association for Computer-Aided Design in Architecture International Conference.

Review Panel for ACSA 2008, 2009

Review Panel Member for the Association of the Collegiate Schools of Architecture National Conference.

Review Panel for USID 2007

Review Panel Member for the Usable Software Interface Design International Conference.

Panel Moderator at the 2006 ACADIA Conference on Synthetic Landscapes

Moderated a panel - *BIM and Sustainability* at 2006 Annual Conference of the Association for Computer Aided Design In Architecture (ACADIA) themed *Synthetic Landscapes*, University of Kentucky, held at Louisville, Kentucky 12-14 October, 2006.

Panel Moderator at the 2005 ARCC National Conference on Architectural Research.

Moderated a panel on Research Presentations at the Architectural Research Center Consortium (ARCC): The Reach of Research. April 6-9, 2005. Mississippi State University College of Architecture, Art, and Design.

4.4 Other Service Projects:

2007: Website for Mississippi State University Community Action Team

2006: Website of the ARCC Journal

Design and maintenance of the ARCC Journal website at the invitation of the ARCC President, Michel Mounayar and Executive Editor, J. Brooke Harrington.

2005: Website of the ARCC National Conference on Architectural Research.

Designed, created and maintained the 2005 ARCC National Conference on Architectural Research website at the invitation of the ARCC President, J. Brooke Harrington and Vice President, James West.

4.5 Professional Memberships:

Association for Computing Machinery

Special Interest Group on Computer-Human Interaction (ACM SIGCHI)

Association for Computer Aided Design in Architecture

5. REFERENCES

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