

## **Swarnali Ghosh Dastider, M.S., M.Arch, LEED AP**

Assistant Professor | Construction Science Department  
Robert R. Taylor School of Architecture and Construction Science  
Tuskegee University  
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### **Professional Preparation**

- Master of Science in Civil Engineering | **University of Missouri-Rolla** | USA | May 2007
- Master of Architecture | **Miami University** | Oxford, Ohio | USA | May 2004
- Bachelor of Architecture | **University of Madras** | India | April 2001

### **Professional Publication**

- Swarnali Ghosh Dastider | “Effectiveness of Virtual Reality Technology to teach Gen Z students about Construction Safety A Pilot Study” | Submitted to the International Journal of Scientific Research and Management and is under review
- Matt Jefferies and Swarnali Ghosh Dastider | “*BIM in Multifamily Design & Construction*”, Journal of Building Construction and Planning Research | December 2018
- Matt Jefferies and Swarnali Ghosh Dastider | Poster Presentation | “*Building Information Modeling In Multifamily Design & Construction*” | Design & Construction Technology Conference | Associated General Contractors of America | October 2018
- Ghosh, S.D. and Baur S.W. | “2005, *UMR/RTI Solar House: Coexistence of Environmental and Technology*,” 2005 | Engineers for a Sustainable World (ESW)
- Ghosh, S.D. and Baur S.W., | “*Evaluation of Building Performance University of Missouri–Rolla (UMR) 2002 Solar House*,” 2006 | Architectural Engineering Conference: Building Integration Solutions, Omaha, NE, April 2006.

### **Professional Activities**

- Advisor “Women in Construction” Tuskegee University
- LEED Accredited Professional (BD+C)
- Member; United States Green Building Council
- Associate Member: American Institute of Architects
- Member, UMR Solar House Team 2005

### **Courses Taught**

- CSMT.0402: Advance Const. II, Construction [Tuskegee University]
- ARCH.0332: Mat & Construction II [Tuskegee University]
- CSMT.0332: Mat. & Struc. in Industrial /Commercial Construction [Tuskegee University]
- CSMT.0347: Virtual Design in Construction [Tuskegee University]



- CSMT.0401: Advanced Construction I [Tuskegee University]
- CSMT.0352: Construction Safety [Tuskegee University]
- CSMT.0331: Materials & Structures in Residential construction [Tuskegee University]
- ARCH.0331: Materials and Construction I [Tuskegee University]
- T64 580B : Digital Construction Technology [Washington University in St. Louis ]
- T64 500 : Independent Study | Research on BIM /VDC [Washington University in St. Louis ]
- Faculty Advisor | Sustainability Exchange Course [Washington University in St. Louis ]
- Guest speaker | Estimation | Building Information Technology [Southwest Illinois College]



### **Professional Employment History**

Assistant Professor | Tenure Track | Construction Science Department | Robert R. Taylor School of Architecture and Construction Science | Tuskegee University

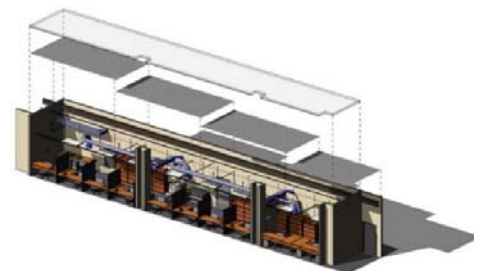
- Teaching interdisciplinary core courses for both Architecture and Construction Science Management such as Building/Construction materials and Statics
- Teaching core Construction Science Management course such as scheduling and construction safety
- Research involving Building Information modeling/ Virtual Design & Construction/Virtual reality for construction / Sustainability

Architectural BIM Coordinator | WA Architects | St. Louis, Missouri, USA | February 2017- till date



- Responsible for delivery of the digital models and documentation for healthcare, higher education and recreational projects
- Develop and maintain BIM library and data content suitable for the multidisciplinary team
- Responsible for BIM standard development, implementation and workflow process
- Creating and maintaining Architectural BIM template
- Participated in various sizes of projects ranging from 200,000 – 20M

Adjunct Faculty | Construction Management Program | The Henry Edwin Sever Institute | Washington University in St. Louis | St. Louis, Missouri, USA | Fall 2016 – Spring 2018



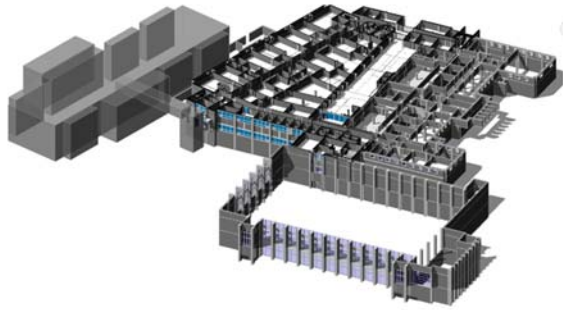
Faculty Advisor, | Voluntary position | Sustainability Exchange Course | Sam Fox School of Design and Visual Arts | Washington University in St. Louis | St Louis MO, USA | Spring 2015

Energy Analyst | Volunteer position | Energy Resource Group | St. Louis, Missouri, USA | August 2014 - May 2015

Associate Professor of Architecture | MIDAS | Chennai | India | February 2013 – November 2013

- Lead design teacher for studios and
- Teaching several core courses
- Conducting internal examinations and evaluation
- Responsible for architecture visits

Project Designer | Jacobs Engineering Group | St. Louis, Missouri, USA | January 2006-October 2010



- Animation and BIM modeling
- Creating design and construction documents,
- Code analysis and preparing life safety plan using IBC, state and local code books,
- Program development for project utilizing area calculation, adjacency relationship and space model,
- Charrette and schematic design & drawing,
- Participating in site visits,
- Checking construction drawing/documents,
- Power Point presentation, and
- Was involved with governmental, technical, utility projects

Graduate Assistant | University of Missouri Rolla | Rolla | Missouri | August 2004-December 2005

- Research on sustainable construction methods and techniques, construction cost Savings, energy, and life-Project Designer cycle analysis
- Teaching assistant for Illuminations, Passive Solar Engineering and Architectural Design II.



Graduate Assistant | Miami University | Oxford | Ohio | August 2002-May 2004

- Research on sustainable architecture, onsite energy use, passive energy saving techniques etc.
- Teaching assistant for FormZ modeling computer lab.

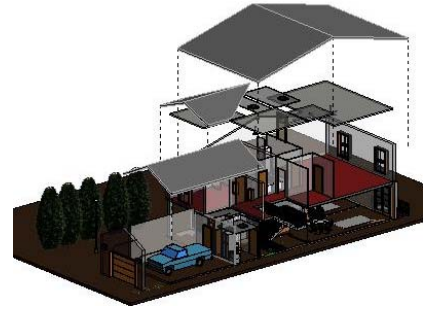
Architect | Holyland Satellite City Ltd | Chennai | India | July 2001-June 2002

- Creating construction documents, 3D Rendering.

Intern Architect | Dulal Mukherjee and Associates | Calcutta | India | June 1999-September 1999

## Core Competence

- Several years of Architectural design and drawing experience in the USA.
- Extensive knowledge of BIM software such as Revit and Triforma.
- Proficient in AutoCAD, Sketch up, Microsoft Office tools and Adobe Photoshop.
- Strong background in research related to Sustainable Architecture.
- Solid understanding and experience in LEED projects and presentation drawing
- Strong communication and team building skills.
- Ability to handle multiple projects, meeting deadlines, and working overtime and under pressure.
- Understanding and experience in teaching



## Computer Skills



- BIM: **Revit** | **Navisworks Manage** | **Blue Beam** | **Triforma**
- Rendering Software: **Enscape** | **Adobe Photoshop** | **SketchUp**
- Drafting Software: **Auto CAD** | **Architectural Desktop** | **Microstation**
- MS Office: **Microsoft Word** | **Excel** | **Power Point**
- Energy Software: **Energy 10**

## Collegiate Portfolio

**Masters Thesis Project: Sustainability in an Urban Context** | Cincinnati, OH: An attempt to reenergize one block area of Over-the-Rhine in Cincinnati to establish an example of urban sustainability

**Private House** | Creation of a house to address the complexity and relationship among postmodern social, cultural, spiritual and natural life

**River Activity Center** | Creation of an attractive functional building to bring back activities and revitalized downtown Hamilton

**Waldorf School** | Creation of a school supporting a system of education that would nurture all dimension of the human beings

**High Line Project** | Creating an interesting and attractive alternative reuse for this abandoned artifact to facilitate its preservation

**A Walk Through Wilderness** | Creation of a nature trail through the wilderness to have significant experience of pleasure with empathy for site and its condition

**Undergraduate Thesis Project** | Center for AIDS Patients, | Tripura, India: This center was designed to include all the supporting facilities for AIDS patients

