

**Amna Salman**  
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## EDUCATION

<b>Master in Community Planning</b> College of Architecture, Design, and Construction Auburn University, Auburn, Alabama	December 2013
<b>Master in Public Administration</b> College of Liberal Arts Auburn University, Auburn, Alabama	December 2013
<b>Bachelor in Architecture</b> School of Architecture University of Engineering and Technology, Lahore, Pakistan	December 2007

## TEACHING EXPERIENCE

<b>Adjunct Professor</b> McWhorter School of Building Science, Auburn University <u>Courses Taught:</u> <ol style="list-style-type: none"><li>1. BSCI 2100: Introduction to Sustainable Construction (Fall 2017)</li><li>2. BSCI 2400: Structures of Buildings-I (Fall 2016, Spring 2017, Fall 2017, Spring 2018, Spring 2019)</li><li>3. BSCI 3400: Structures for Architects-II (Summer 2017, Fall 2017)</li><li>4. BSCI 3440: Structures of Buildings-II (Summer 2018, Fall 2018, Spring 2019)</li></ol>	August 2016 to Present
<b>Course Developer</b> Pearson Learning Solutions, Indianapolis, IN Developed online lessons for CT210: Elementary Statics course. This online course was developed for ITT Technical Institute, USA.	February-May, 2010

## RESEARCH EXPERIENCE

<b>Research Consultant (PSC)</b> McWhorter School of Building Science, Auburn University <u>Project:</u> Capacity Building in Research, Education and Practice for High-Performance Energy- Efficient Buildings and Homes <u>Funding Agency:</u> United States Agency for International Development (USAID) <u>My Responsibilities</u> (1) Design of questionnaire surveys and interviews for energy usage benchmarking studies of selected buildings and houses, (2) Literature review on case studies of energy efficient buildings and homes in developed and developing countries, (3) Review of local and international building energy codes; and (4) report writing.	Jan-May 2016
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## Graduate Research Assistant

Aug 2011 – Dec 2013

McWhorter School of Building Science, Auburn University

Project: Establishment of a Center of Excellence to Conduct and Promote Construction Safety Research, Training and Education in Pakistan

Funding Agency: United States Department of State

My Responsibilities (1) Design of questionnaire surveys to benchmark existing construction safety practices in Pakistan, (2) Statistical analysis of collected data and report writing; (3) Development of training material on construction safety; and (4) Report writing.

## RESEARCH GRANTS

Project: Developing Case Studies of State-of-the-Art Buildings and Bridges in China for Use as a Teaching Tool in Structures of Buildings-I & II courses

PI: Amna Salman

Co-PI: Mark Tatum

Funding Agency: Office of International Programs, Auburn University

Amount Funded: \$5,000

Duration: December 2018- September 2019 (In progress)

Project: Creating Virtual Reality models for BSCI 3440: Structures of Building-II to improve conceptual clarity of Architecture and Building Science students

PI: Amna Salman

Co-PI: Salman Azhar

Funding Agency: McWhorter Fund for Excellence

Amount Funded: \$5,000

Duration: October 2018- July 2019 (In progress)

Project: Introducing Building Science and Architecture Students to Experimental Research via Designing and Testing Tall Buildings Prototypes under Wind and Seismic Loads

PI: Amna Salman

Co-PI: Salman Azhar

Funding Agency: Office of Undergraduate Research, Auburn University

Amount Funded: \$3,500

Duration: June 2018-May 2019 (In progress)

## INDUSTRY EXPERIENCE

### Campus Planner I

March-June 2016

Office of University Architect, Facilities Management, Auburn University

1. Developed guidelines of Land Use Agreements for field labs associated with different departments around the campus
2. Assisted Campus planner in campus master planning project
3. Assisted in mapping data on GIS and campus maps production
4. Conducted site visits to determine the feasibility of different future construction projects

### Architect (Student Worker)

May-Dec 2013

Office of University Architect, Facilities Management, Auburn University

1. Assisted in the design, detailing and supervision of building construction projects
2. Assisted in the Campus master plan development project
3. Recorded multiple categories data for the campus GIS

**Associate Architect**

June 2009-May 2011

Architecture and Structures (ANS) Associates, Lahore, Pakistan

1. Designed the passive cooling system for a community college administration building
2. Conducted site analysis for design of a community college campus
3. Reviewed the schematic and detail designs of various commercial projects to introduce/enhance green building features

**Architect (Internship)**

June-Aug, 2006 and 2007

Architecture and Structures (ANS) Associates, Lahore, Pakistan

1. Assisted the project manager in overall management of multiple commercial construction projects
2. Responsibilities included cost management, field logistics, and client relations

**PUBLICATIONS****Edited Conference Proceedings (Co-Editor)**

1. Azhar, S.; Khan, M.A.; Arif, S.; and **Salman, A.** (2018). *Proceedings of the First International Conference on High Performance Energy Efficient Buildings and Homes (HPEEBH 2018)*, Lahore, Pakistan, August 1-2.

**Conference Papers**

1. **Salman, A.** (2019). "Pedagogical Transformations in Structures Classroom: Immersing Students into Virtual World for In-Depth Understanding of Steel Connections". 19<sup>th</sup> International Conference on Construction Applications of Virtual Reality 2019, Bangkok, Thailand, November 13-15 (Abstract Accepted)
2. **Salman, A.** (2019). "Implementing Experimental Research : A Case Study of Teaching Lateral Forces in an Introductory Structures Course." *Proceeding of the 55<sup>th</sup> Associated School of Construction International Conference 2019*, Denver, Colorado, April 10-13<sup>th</sup>.
3. **Salman, A.** and Ahmed, M.(2018). " Implementing Active Learning Strategies in Structural Analysis and Design Course: Pedagogy Development and Lesson Learnt." *Proceeding of the 11<sup>th</sup> Annual Conference of Education, Research, and Innovation (ICERI 2018)*, Seville, Spain, November 12-14<sup>th</sup>.
4. Azhar, S. and **Salman, A.** (2018). "Capacity Building in Research, Education, and Practice for High-Performance Energy-Efficient Buildings and Houses: A Case Study of Pakistan." *Proceedings of the 6<sup>th</sup> International Conference on Capacity Building for National Sustainable Development (CBNSD 2018)*, Nairobi, Kenya, August 29-31.
5. Azhar, S.; Ahmed, K.; and **Salman, A.** (2018). "Development, Testing, and Life Cycle Cost Analysis of Energy Efficient Designs for Typical Single Family Detached Houses in Pakistan." *Proceedings of the First International Conference on High Performance Energy Efficient Buildings and Homes (HPEEBH 2018)*, Lahore, Pakistan, August 1-2.
6. Lauterbach, E.M.; Azhar, S.; and **Salman, A.** (2017). "A Comparison of Paid vs. Free Weather Services for Site Specific Weather Forecasts for Construction Projects." *Proceedings of the 8th Engineering, Project, and Production Management Conference (EPPM 2017)*, Amman, Jordan, September 19-21.

7. Crews, E.; Azhar, S.; and **Salman, A.** (2017). "Are LEED Certified Buildings Better in Performance? A Comparison of LEED and Non-LEED Certified Institutional Buildings." *Proceedings of the Third West Africa Built Environment Conference (WABER 2017)*, Accra, Ghana, August 16-18.
8. Azhar, S., **Salman, A.**, and Choudhry, R.A. (2014), "Establishing a Center of Excellence to Promote Construction Safety Research, Education and Training in Pakistan." *Proceedings of the W55/65/89/92/96/102/117 & TG72/81/83 International Conference on Construction in a Changing World*, Kandalama, Sri Lanka, 4-7 May 2014.

**AWARDS & SERVICES**

1. Session Chair, 55<sup>th</sup> Annual Associated School of Construction International Conference (ASC 2019), Denver, CO, April 10-13.
2. Conference Coordinator and Session Chair, 1<sup>st</sup> International Conference on High Performance Energy Efficient Buildings & Homes (HPEEBH 2018), Lahore, Pakistan, August 1-2.
3. Runner Up for Best Paper Award, 8<sup>th</sup> International Conference on Engineering, Project and Production Management (EPPM 2017), Amman, Jordan, September 2017; Paper Title: A Comparison of Paid vs. Free Weather Services for Site Specific Weather Forecasts for Construction Projects.

**Memberships**

1. American Planning Association
2. Pakistan Council of Architects and Town Planners

**Software Skills**

Proficient with a vast array of software including:

GIS/Arc Map	Adobe InDesign	Autodesk Revit	MS Office
Sketchup	Autodesk AutoCAD	Autodesk 3ds Max	MS Project

**Professional References**

**Dr. Rebecca Retzlaff**  
 Associate Professor of Community Planning, College of Liberal Arts, Auburn University  
 8018 Haley Center  
 Auburn, AL 36849  
 334-844-5429  
[becki@auburn.edu](mailto:becki@auburn.edu)

**Dr. Jay Mittal**  
 Associate Professor and Director, Master of Community Planning Program, Auburn University  
 8020 Haley Center  
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 334-844-8409  
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**Richard Guether**  
 Director, Campus Planning and Space Management, Facilities Management, Auburn University

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Office of University Architect, Facilities Management, Auburn University  
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**Amir Riaz**  
CEO, Architecture and Structures (ANS) Associates  
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