



ALAA SALMAN ALGARGOOSH

LECTURER

Personal Data

Nationality | Saudi

Date of Birth | 19/05/1985

Department | Interior Design

Official UoD Email | asalgargoosh@uod.edu.sa

Language Proficiency

Language	Read	Write	Speak
Arabic	Native proficiency	Native proficiency	Native proficiency
English	Proficient	Proficient	Proficient
French	Beginner	Beginner	Beginner

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2013	MS in Architecture	University of Dammam	Dammam, Saudi Arabia.
2007	BS in Interior Architecture	King Faisal University	Dammam, Saudi Arabia.

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

Master	Improving Indoor Sound Quality by Using Cymatic Shapes
Fellowship	The Aural Architecture of Mosques.

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work	Date
Teaching Assistant in Architecture	University of Michigan, Ann Arbor, MI, USA.	2016-ongoing.
Research Assistant	University of Michigan, Ann Arbor, MI, USA.	2015-2016
Lecturer in Interior Design	University of Dammam, Dammam, Saudi Arabia.	2013
Teaching Assistant in Interior Design	University of Dammam, Dammam, Saudi Arabia.	2010-2013



Project Engineer	Saudi Aramco, Dhahran, Saudi Arabia.	2008-2010
Architect	Zuhair Fayez Partnership Consultants, Alkhobar, Saudi Arabia.	2007-2008

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Leadership (Board member)	The Planning and Architecture Research Group, University of Michigan.	2017

Scientific Achievements

Patents

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Alaa Algargoosh, Hany Hossameldin, Hala El-wakeel.	Sound Diffuser Inspired by Cymatics Phenomenon	(2015)United States Patent and Trademark Office. Publication No. US-2014-0339015-A1.
2	Alaa Algargoosh, Hany Hossameldin, Hala El-wakeel.	Sound Diffuser Inspired by Cymatics Phenomenon	(2015) Saudi Patent Office. Publication No. 4439

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date
1	Alaa Algargoosh	Creating A Psychologically Supportive Environment Through Aural Architecture.	(2014) The 24th International Congress on Sound and Vibration (ICSV24), London.
2	Alaa Algargoosh	Review of Aspects That Shape the Aural Experience in Worship Spaces.	(2016) The 22st International Congress on Acoustics (ICA 2016), Buenos Aires.
3	Sarah Alghamdi Alaa Algargoosh Khalid Alshaibani	Energy Conservation by Retrofitting: An Overview of Office Buildings in Saudi Arabia.	(2015) The International Conference on IT, Architecture and Mechanical Engineering (ICITAME'2015), Dubai.
4	Alaa Algargoosh Hany Hossam Eldien Hala El Wakeel	Improving the indoor sound quality by using cymatic shapes.	(2013) The 21st International Congress on Acoustics (ICA 2013). Montréal.
5	Alaa Algargoosh	Increasing the Effectiveness of the Architectural Design Process by Simulation.	(2011) The Second Scientific Conference for Graduate Students, Jeddah.



Current Researches

#	Research Title	Name of Investigator(s)
1	Form Exploration of Domes: A Synchrony of Structures and Acoustics.	Alaa Algargoosh, Anahita Khodadadi.
2	Aural Architecture in Mosques.	Alaa Algargoosh.
3	Evaluation of the Acoustical Performance of Educational Spaces.	Hany Hossam Eldien, Alaa Algargoosh, Rajeh Alrajeh.

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	The Doctoral Colloquium (The Critical City)	(2017) University of Michigan	Curator
2	The Doctoral Colloquium (Conversations on Building Technology)	(2016) University of Michigan	Curator

Membership of Scientific and Professional Societies and Organizations

- 2013- Membership of Saudi Inventors.
- 2012- Membership of Acoustical Society of America.
- 2006- Membership of Saudi Council of Engineering.

Scholarships, Awards, Honors and Grants

- 2017- University of Michigan, Rackham International Students Fellowship for outstanding international students.
- 2017- University of Michigan, Rackham Conference Travel Grant.
- 2016- Honored by the Ambassador Abdallah AlMouallimi during "This is My Fingerprint" exhibition in New York, which presents the best Saudi students achievements.
- 2016- University of Michigan, Rackham Conference Travel Grant.
- 2015- University of Michigan Doctoral Program Scholarship.
- 2014- Saudi Council and Ambassador in US, honored for my achievements and inventions.
- 2013- Saudi Arabian Cultural Mission Scholarship Program.
- 2013- King Abdulaziz and His Companions Foundation for Giftedness and Creativity, won the competition and had been selected to present my invention (cymatic sound diffuser) in Ibtikar (an international exhibition for inventions).
- 2013- King Abdulaziz Center for World Culture (Keystone program), had been selected to represent my team and participate with our invention (sound absorbers decorative tile) in the annual ArtScience Innovation Workshop in Paris.



- 2013- King Abdulaziz Center for World Culture (Keystone program), had been selected to conceptualize and translate creative ideas, into marketable products and services in the field of Synthitec Biology. The program is affiliated with the Harvard ArtScienceLab.
- 2012- University of Dammam, Grant to fund master thesis research.
- 2007- Saudi Council of Engineering, 3 years' honorary membership for Academic Excellence.
- (2003-2007)- University of Dammam, Yearly Honor for Academic Excellence.

Media Coverage

- 02/05/2017- Hia magazine, interview.
- 03/09/2016- "Bssmat Mbt3th" book, which contains the international influential achievements of the Saudi students around the world included a page about my achievements. The book was launched by the Ambassador (Prince Abdullah Bin Turki) and the Saudi Cultural Attaché in America (Dr. Mohammed Al-Issa) in Washington on September 3rd, 2016.
- 12/01/2016- Alyaum Newspaper, an article about my invention, which was granted a Saudi and a US patent.
- 05/09/2015- Makkah Newspaper, mentioned as an inventor in an article about the outstanding achievements of the Saudi students studying in the US.
- 14/02/2014- Subscribe Show, interviewed on MBC channel in the show that represents the achievements of the innovative Saudi young people.
- 03/07/2013- Asharq Alawsat Newspaper, an article about my contribution in the Art Science Innovation workshop in Paris.
- 08/03/2012- Alyaum Newspaper, selected to represent the successful Saudi working women in the International Working Women's Day.

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Environmental Systems (<i>University of Michigan</i>)	ARCH 425	Assisting in the course.
2	Design studios (<i>University of Dammam</i>)	INDSG 501 INDSG 502 INDSG 301 INDSG 302	Assisting in the courses.
3	Senior Thesis Research (<i>University of Dammam</i>)	INDSG 521	Assisting in the course.
4	Environmental Control Systems (<i>University of Dammam</i>)	INDSG 432	Assisting in the course and teaching architectural acoustics.
5	Working Details (<i>University of Dammam</i>)	INDSG 312	Assisting in the course.



6	Building Construction (<i>University of Dammam</i>)	INDSG 341	Assisting in the course.
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Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Integrative systems (<i>University of Michigan</i>)	ARCH 527	Assisting in the course and teaching architectural acoustics.

Guest/Invited Lectures for Graduate Students

#	Activity/Course Title and Code	Subject	College and University or Program	Date
1	ARCH 506: Research for Design Practices	Research and Invention	Taubman College of Architecture, University of Michigan.	11/09/2016
2	ARCH 506: Research for Design Practices	Research and Invention	Taubman College of Architecture, University of Michigan.	13/03/2016

Administrative Responsibilities, Committee and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	17/04/2017	ongoing	Leadership (Board member)	The Planning and Architecture Research Group, University of Michigan.

Committee Membership

#	From	To	Position	Organization
1	12/04/2017	ongoing	Member	Michigan Acoustics.
2	05/01/2017	ongoing	Member	Member of the Sound Studies group at Rakham Graduate School- University of Michigan.

Volunteer Work



#	Year	Type of Volunteer	Organization
1	2014	Participating in designing a proposal of green roof for the building.	CELOP (Center of English Language and Orientation) at Boston University.
2	2014	Assisting with various activities.	Boston Children Museum
3	2013	Presenting a lecture for beginner business women.	Sayhat Association for Social Services.

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Acoustics software: EASE, Acoustic 2D (AC2), Acoustic 3D (AC3), Odeon, QRDude, DIRAC, Chuck and Audacity.
2	Energy simulation software: e QUEST, Energyplus and Ecotect.
3	Statistics software: R studio.
4	Management simulation software: Extend.
5	Drafting and graphics software: Rhino, Sketchup, AutoCad, Form Z, PhotoShop and 3D Studio Max.
6	Operating Audio recording studios.

Last Update

27/05/2017