

Prof. Dr. Mohammad Ali Jalal Yaghan

German Jordanian University
Design and Visual Communication
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EDUCATION

Ph.D. in Design

1993-1997	Institute of Art and Design - University of Tsukuba	Japan
•	Specializing in the field of Islamic Architecture and Computer-Aided Design.	
•	The thesis is entitled "The Islamic Architectural Element "Muqarnas": Definition, Geometrical Analysis, and a Computer Generation System."	

M.Sc. in CABD (Computer-Aided Building Design)

1987-1988	University of Strathclyde	U.K.
•	The thesis is entitled: "Islamic Geometrical Pattern Generation System: Theory and Application."	

B.Sc. in Architecture

1982-1987	University of Jordan	Jordan
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EMPLOYMENT HISTORY

Muqarnas for Design	Jordan
Partner / Designer	Nov. 2006- Present

College of Architecture and Built Environment, German Jordanian U.	Jordan
Full Professor	Sep 2016 - Present
Full Professor – Dean	Feb. 2013- Sep 2016
Associate Professor – Dean	Sep. 2012- Feb 2013
Associate Professor	Sep. 2007-Sep 2012

College of Architecture and Arts, University of Petra	Jordan
Associate Professor – Dean	Oct.2003-Sep. 2007
Head of the Graphic Design Department	Oct.2003-Sep. 2005

College of Architecture and Planning, King Saud University	Saudi Arabia
Associate Professor	Dec.2002-Oct.2003
Assistant Professor	Sep.1998-Dec.2002
College of Architecture and Arts, University of Petra	Jordan
Assistant Professor	July 1997- Aug.1998
Lecturer	Sep. 1991- Sep.1993
Department of Architecture, Jordan University for Science & Technology	Jordan
Lecturer	Jan.1990 - Aug.1991
Jardaneh and Co. Engineering firm	Jordan
Architect	Dec.1988 - Jan.1990

PUBLICATIONS

- “Alternative direction: Arabic vertical marquee writing system.” A forthcoming paper in Scripta: International Journal on Writing Systems.
- Ashour, Rejan, and Mohammad Ali Yaghan. "Introducing Muqarnas through the Design/Build Approach." The International Journal of Design Education, 2020, 15 (2): 81-99. doi:10.18848/2325-128X/CGP/v15i02/81-99.
- “Mathematical concepts in Arabic calligraphy: The proportions of the 'Alif.” PLoS ONE, 2020, May: 15(5): e0232641. <https://doi.org/10.1371/journal.pone.0232641>
- New Islamic Patterns, Amman, 2018.
- “Non-Descender and All-Cap Arabic Writing.” Al-Masāq, Vol. 30: 2, pp.166-190. Online: 18 June 2018: 1–25. Web. <https://doi.org/10.1080/09503110.2018.1479361>
- “Exchange of Beauty: Writing English in Arabic letters.” in Typography Day 2018, Mumbai, India, 1-3 March 2018. http://typoday.in/spk_papers/mohammad-ali-jalal-yaghan-typoday2018.pdf
- Ashour, Rejan, and Mohammad Ali Yaghan. “The making of Beautiful: A method for designing type for Jordanian students” in Typography Day 2018, Mumbai, India, 1-3 March 2018. http://typoday.in/spk_papers/rejanashour-typoday-2018.pdf
- "The Evolution of Architectural Forms Through Computer Visualisation: Muqarnas Example." The proceedings of Electronic Visualisation and the Arts (EVA 2010), London, 113-120.
- Yaghan, Mohammad Ali; and Rejan Ashour. "The Battle of Grids: Preparing First Year Students for Their Upcoming Design Studies in Jordan", Designing Design Education-Design Train Congress, Amsterdam 5-7 June 2008, Vol. II, 210-223.
- “‘Arabizi’: A Contemporary Style of Arabic Slang.” Design Issues, spring 2008, Vol. 24, No. 2, 39- 52.
- "Self-Supporting “Genuine” Muqarnas Units." Architectural Science Review, 48.3, Sept. 2005, 245255.

- "Gadrooned Dome's Muqarnas Corbel: Analysis and Decoding Historical Drawings" Architectural Science Review, 46.1, March 2003, 69-88.
- Muqarnas, Phoibos Verlag, Vienna 2001.
- "The Muqarnas Pre-designed Erecting Units: Analysis, Definition of the Generic Set of Units, and a System of Unit-Creation as a New Evolutionary Step." Architectural Science Review, 44.3, 297-318, September 2001.
- "Teaching Architectural-Visual-Experience through Virtual Reality Using VRML: Muqarnas Example." Journal of King Abdul Aziz University -Environmental Design Sciences, Vol. 1, 2003, 2742. and in:
The Proceedings of the Symposium on the Development of Engineering and Environmental Design Education, College of Engineering and College of Environmental Design - King Abdelaziz University-Jeddah-Saudi Arabia, 12-14 February 2001, 87-97.
- "Decoding the Two-dimensional Pattern Found at Takht-i Sulayman into Three-dimensional Muqarnas Forms." Iran, XXXVIII, 2000, 77-95.
- "Arch-Creating Software." Journal of King Saud University-Architecture and Planning, vol. 12, Architecture and Planning, 2000,1-36.
- "Structural Genuine Muqarnas Dome: Definition, Unit Analysis, and a Computer Generation System." Journal of King Saud University, vol. 10, Architecture and Planning, 1998, 17-52.
- "The Design of An Arch-Creating Software As a Model For CAD Applications in Architecture." The proceedings of The Third International Conference on Recent Trends in Computer Science Applications and Information Systems, Philadelphia University, Jordan, 1998, pp. 71-80.
- "Muqarnas Typology: A Tool for Definition and a Step in Creating a Computer Algorithm for Muqarnas Generation System." With Mitsui Hideki. In The Proceedings of the 42nd Annual Conference of the JSSD [Japanese Society for the Science of Design], p. 156. Oct. 1995.

AFFILIATIONS

- Member of the advisory board of the Architectural Science Review 2004-2012
- Member of the Jordan Engineer Association
- Member of the Japanese Society for the Science of Design

PATENTS

- A Constructive Toy, a Ministry of Trade and Commerce patent, Amman, Jordan.

EXHIBITIONS

- "GJU Art Exhibition for Renowned Artists in Jordan, 2011." German Jordanian University.
- "Sunny Art Fair, 2011" Zara Convention Center. Pieces of muqarnas form "multiple visions".
- "Geometrical Dual Vision-Islamic Art and Computers," the University of Tsukuba, June 28 to July the first, 1994. A one-man show.
- "Katachi U Symmetry": An exhibition of the international symposium held at the University of Tsukuba November 21-25, 1994. Participating with three-dimensional muqarnas forms.
- The Exhibition of the "Symposium on Mosque Architecture," held at King Saud University, Jan.30Feb.3, 1999. Participating with 3 posters.

COMPUTER SKILLS

- Programming Languages: AutoLisp, C#, ActionScript, LISP, Visual Basic, HTML, VRML
- Graphic Applications: AutoCAD, Cinema 4D, Adobe Suite (Photoshop, Illustrator, InDesign, After Effects, ...); Unity, Rhino-Grasshopper.
- Computer Programs and Projects:
 - A program for muqarnas design.
 - A program for creating new Islamic Patterns (partial) □
 - The Design of Arabic fonts.
 - Interior/ Architectural/Graphic projects at Muqarnas for Design. o
 - A commercial program for designing and drawing arches "Larch", distributed by "Muqarnas for Design".
 - A software package for creating muqarnas forms; "Structural Genuine Muqarnas Dome,"
 - A program for creating a special type of muqarnas.

LANGUAGE SKILLS

- Arabic as a mother language
- English as a second language
- Japanese (with the ability to lead a conversation and read and write simple texts - and intensive and other courses at the University of Tsukuba).
- French (basic level)

AREAS OF TEACHING

- Basic Design
- Technical Graphics
- Latin Typography
- Arabic Typography
- Arabic Calligraphy
- Architectural Design Studios
- Graphic Design Studios
- History of Architecture I (before 1200)
- History of Architecture II (Islamic)
- Animation
- CAD and Computer Visualization

INVITED LECTURES AND WORKSHOPS

RheinMaine University of Applied Science (Germany June 2022 through Erasmus+)

- Teaching architectural design course, and a lecture on New Islamic Patterns

German Jordanian University (2018 and 2019)

- Arabic Calligraphy workshops for Germans studying Arabic

The University of Wiesbaden (Germany June 2017 and June 2019 through Erasmus+)

- Lectures and workshop on Arabic Calligraphy and Patterns
MIT (2015)
- Lecture: Islamic Patterns
- Preparing for Azraq camp refugee help project
University of Texas A&M (27-30 March 2011)
- Lecture: The Art of Decoding Historical Drawings
- Workshop: Muqarnas Creation
The University College of Bahrain (Sep. 2011)
- External reviewer of the Multimedia Program

RESEARCH INTEREST

- Muqarnas, Patterns, Islamic Art and Architecture, and Arabic Calligraphy.
- CAD, and Augmented and Virtual Reality.

PROJECTS

1. Projects through the German Jordanian University

Project's Name	Tasks
Renovating the complex building of Ibrahim Hashim (first Prime Minister of Jordan)	Heading the committee for the renovating redesigning and reuse of the historical/cultural complex

2. Projects through "Muqarnas for Design"

Project's Name	Tasks
Jordan Parliament Museum (branding and interpretation)	As a tribute to the parliamentary life of Jordan, the Jordanian Ministry of Culture commenced the establishment of a museum that would narrate the story of Jordan through the parliamentary events over the past one hundred years. The decision was to utilize the building of the old parliament in Jabal Amman. The building was renovated and redesigned. Our role at "Muqarnas for Design" is to brand the museum and its building, and to design the interpretation work that represents the material. The branding elements; the logo, the font, the color scheme... etc. were designed and approved. Currently, we are in the stage of designing the interpretation.
Model for Abu Jaber Museum_ Salt	Tourist model for al-Salt city A special computer program and the use of the CAD-CAM facilities enabled the building of an accurate model for the heritage city; Salt. (in collaboration with Turath co.)

Branding of Kilo for food industry_ Amman	<ol style="list-style-type: none"> 1. The branding of Kilo Corporation, a newly established food industry firm with a pioneer product. 2. The design of a visual identity for the brand “kilo” and its application on all collaterals and company products.
Annual reports for the Ministry of Industry and Trade	The design of the annual reports of the Ministry of Industry and Trade for the years 2007-2009-2011
Ajloun Visitor's Center	<ol style="list-style-type: none"> 1. Interior Design of Ajloun Visitor's Center 2. Branding for the city of Ajloun 3. Design of the Display Posters at Ajloun Visitors' Center Twenty-two posters displaying the important tourist, historic, religious, and natural locations of Ajloun (including research, photography, illustration, and copyrighting Arabic and English). 4. Tourist model for Ajloun Castle
Interior/ Graphic Design for Petra University	<p>Designing the floor pattern for the grand entrance halls of the multi-purpose building of the University of Petra</p> <p>Designing the University of Petra yearbooks for the years 2003/4 and 2004/5 and the cover of 2006</p>
Campaign Design for the Directorate of Competition in the Ministry of Industry and Trade	Designing the Awareness full Campaign for the "Directorate of Competition" one of the Ministry of Industry and Trade's directorates.
Campaign Design for the Jordanian Army	Designing the Awareness outdoor Campaign for the "National for Employment & Training" Company.
Short animation films for Greater Amman Municipality	Five short films for combating Begging for the children in Jordan
Interior Design of The United Technology	Designing the 300 squared meters in Abraj al
Solutions Co. (UTS) headquarters	Hijaz in Mecca Street. The client aimed at accommodating more than 30 permanent employees and some visitors with a maximum number of private offices. With proper planning, it was possible to provide 12 offices, a meeting room, a reception hall, and two open office spaces.
Interior Design for Infinibyte company headquarters- Dubai	The interior design of a hi-tech risk management company with a special design reflecting the company motto for its workers (enjoy working)

A documentary film in Yemen	A Documentary film for Yemeni Ministry of Fish Wealth on "Fishing Process Awareness in Yemen"
Muqarnas the Rising -film	Production for the Muqarnas Movie 3D animation film about a journey through muqarnas forms, both traditional and modern, that takes the viewer into the world of Muqarnas beauty and formal potential. It is accompanied by a marvelous piece of music by Charbel Rouhanna.
Design and execution for a Muqarnas	Designing and building the booth of “Muqarnas for Design” at the InterBuild exhibition.
Designing “Facing-the-Terror” Mural	A mural (5×14m) designed as a reaction to the brutal terror acts against innocents in Ammam in 9-11-2005. The design allowed the students of Petra University (College of Architecture and Arts) to participate, each with a small poster (40×40cm). All posters were arranged to draw the Jordanian flag. The mural was fixed to the elevation of the Radisson SAS Hotel as a direct rejection of terror.
Interior / Branding &Graphic design for "Muqarnas for Design" company	Designing the interior space for the company headquarter. The branding of "Muqarnas for Design" The design of a visual identity for the "Muqarnas for Design" company and its application on all collaterals and company products.