

MOSTAFA ALANI

Curriculum Vita

College of Architecture and Construction
Management | Kennesaw State University
malani@kennesaw.edu
864.346.8408

College of Architecture, Arts, and the
Humanities | Clemson University
mostafn@g.clemson.edu
www.mostafawaleed.com

EDUCATION

- Ph.D. Planning, Design, and the Built Environment | College of Architecture, Arts, & Humanities, Clemson University | Clemson, South Carolina, 2018 (Fully Funded Scholarship)
Major Field of Study: Computational Design & Islamic Geometric Patterns.
Chair: Michael Kleiss, Ph.D.
- M.Sc. Building Technology | School of Housing, Building, and Planning, University of Science | Penang, Malaysia, 2009
- B.Sc. Architecture Engineering | Department of Architecture, University of Technology | Baghdad, Iraq, 2006

Certificate Programs:

- 2015 Digital Ecology Certificate | College of Architecture, Arts, & Humanities, Clemson University | Clemson, South Carolina

TEACHING EXPERIENCE

- Kennesaw State University, Part-Time Assistant Professor
Architecture Studio IV (ARCH 2004) | Spring 2018
Design Communication (ARCH 1241-6, 14) | Spring 2018
Focus Design Studio, Dynamic Environments (ARCH 5015) | Fall 2017
- Clemson University, Teaching Assistant
Design Science (ARCH 8790) | Spring 2016
Creative Inquiry | Spring 2016
- Universiti Sains Malaysia (DRN)
Lightweight concrete workshop | 2009

RESEARCH EXPERIENCE

- 2017 Research Assistant | Planning, Design, and the Built Environment | Clemson, SC — 2014-2017
- 2016 Research Assistant | College of Architecture, Arts, and Humanities | Clemson, SC — Spring & Summer
Manufacturing the second generation of a robotic kit for children. Institute for Intelligent Materials, Systems and Environments, Clemson University. Supervisors: Keith Green, Ph.D. & Ivan Walker, Ph.D.

PUBLICATIONS

Peer-reviewed Journals:

- 2017 ***“Algorithmic investigation of the actual and virtual design space of historic hexagonal based Islamic patterns.”*** International Journal of Architectural Computing. Mostafa Alani.

Peer-reviewed Conference Proceedings:

- 2017 ***“The Reconfigurable Wall System: Designing an Interactive, Responsive Structure Reactive to Socio-Environmental Conditions.”*** 20th Human-computer Interaction (HCI) Conference, 2018. Mostafa Alani, Arash Soleimani, Anthony Bah, Adam Leicht, Salman Sajwani, Evan Murray.
- 2016 ***“Morphological Code of Historical Geometric Patterns: The Digital Age of Islamic Architecture.”*** Parametricism and Materialism: The International Conference of the Arab Society for Computer-Aided Architectural Design (ASCAAD). Mostafa Alani.
- 2015 ***“A Parametric Description for Metamorphosis of Islamic Geometric Patterns.”*** Emerging Experience in Past, Present, and Future of Digital Architecture: The Association for Computer-Aided Architectural Design Research in Asia (CAADRIA) conference. Mostafa Alani, Carlos Barrios.
- 2015 ***“Parametric analysis in Islamic geometric designs.”*** The next city - New technologies and the future of the built environment. 16th International Conference CAAD Futures 2015. Carlos Barrios. Mostafa Alani
- 2015 ***“A Parametric Metamorphosis of Islamic Geometric Patterns: The Extraction of New from Traditional.”*** Future of Architectural Research: Architectural Research Centers Consortium (ARCC) conference. Mostafa Alani, Carlos Barrios.

Forthcoming Conference Proceedings:

- 2017 ***“Heritage at Stake: Computational Design Processes for Rescuing Mosul’s Architectural Identity.”*** Technopolitics. XXII International Conference of the Iberoamerican Society of Digital Graphics (SIGraDi). Mostafa Alani (Accepted Abstract).

Posters:

- 2017 ***“Fabricating the Metamorphosis of Islamic Pattern,”*** Architecture of Complexity: design, systems, society and environment: Architectural Research Centers Consortium (ARCC) conference. Mostafa Alani, Brian Leounis, Carlos Barrios.
- 2017 ***“Investigating the virtual-actual design space of historical Islamic Patterns,”*** Tasmeem Doha 2017. Mostafa Alani, Carlos Barrios
- 2016 ***“Computational Exploration of Islamic Geometric Patterns,”*** Seventh International Conference on Design Computing and Cognition (DCC16). Mostafa Alani.

PRESENTATIONS

- 2017 ***“Dynamic Environments”*** | Focus studio presentation | Architecture Department, Kennesaw State University | Marietta, GA
- 2016 ***“Computational Exploration of Islamic Geometric Patterns”*** | Seventh International Conference on Design Computing and Cognition, Northwestern University | Evanston, IL.
- 2015 ***“Morphing the Islamic Geometric Patterns”*** | Graduate Student Forum | Design and Computation Group, Architecture Department, MIT | Boston, MA

2015 *“A Parametric Metamorphosis of Islamic Geometric Patterns: The Extraction of New from Traditional”* | Architectural Research Centers Consortium conference | Chicago, IL | Mostafa Alani, Carlos Barrios.

PROFESSIONAL EXPERIENCE

Supervisor of Projects Division | Engineering Department, Al-Iraqia University | Baghdad, Iraq — 2012-2013
Providing professional and technical guidance to divisions in the engineering department and supervising projects' design, including the Al-Iraqia University campus in Al-Tarmia designed by Mimar Group, UAE.

Architect | Engineering Department, Al-Iraqia University | Baghdad, Iraq — 2011-2012
Design and supervision of projects on university campuses, including the Presidential Building in Al-Iraqia University, Sab'a Abkar campus and President's Office, Al-Iraqia University, Al-A'damia campus.

Architect | Netaq, LLC | Baghdad, Iraq — 2011
Renovation of Rasheed Theater; responsibilities included details and shop drawings.

Architect | Shams Altam'er Construction Company | Baghdad, Iraq — 2010-2011
Projects included: Exemplary School in Baghdad, Women's Cultural Center, post office buildings, and residential (private/low-rise).

Architect | Global Construction Solutions | Iraq — 2009-2010
Providing technical guidance regarding standards and practices for architectural designs, building components, component installations, building construction, and landscaping.

AWARDS

2017 Rifat Chadirji Prize: Mosul's Housing competition, Tamayouz Excellence Award (honorable mentions).

2016 Graduate Research and Discovery Symposium, College of Architecture, Arts, and Humanities, Clemson University (1st place award in the).

2015 Graduate Student Research Program Award, College of Architecture, Arts, and Humanities, Clemson University.

2013 The Higher committee for education development in Iraq (HCED), Office of the Iraqi Prime Minister (Scholarship).

2011 Affordable housing competition, Ministry of Housing and Construction, Iraq. Mostafa Alani, Mohamad Ahmad (4th prize winner).

2010 Baghdad Entrance competition, Baghdad Governorate (1st prize winner).

EXHIBITIONS

2017 Focus Studio Exhibition | Architecture Department, Kennesaw State University | Marietta, GA

SERVICE & PROFESSIONAL OUTREACH

Peer Review:
Peer reviewer, Journal of Cultural Heritage — 2016

Services:
Jury, Vertical Charrette Competition | Department of Architecture, Kennesaw State University — Fall 2017
Selection committee, TEDx Clemson University 2016 Organizing Committee | Clemson University — 2016

PDBE PhD Student Senator, Graduate Student Government, Clemson University | Planning, Design, and the Built Environment Senator — 2015-2016

LICENSING & CREDENTIALS

Licensed Architect, Iraq, Registration # 121350 — 2016-present

LEED Green Associate, US Green Building Council, Cert. ID 11092083-GREEN-ASSOCIATE — 2016-present

PROFESSIONAL ASSOCIATIONS & MEMBERSHIP

Member of the American Institute of Architects, AIA Intl. Assoc., Member # 38601686 — 2016-present

Member of the Iraqi Board of Engineers — 2006-present

COMPETENCIES

3D Modeling & Photo Realistic Visualization:

Rhinoceros, 3Ds Max, SketchUp, Vray, Maxwell

Drafting & BIM:

AutoCAD and Revit

Postproduction & Digital Media:

Photoshop, InDesign, Final Cut Pro

Scripting & Computational Design:

Processing Programming Language, Grasshopper, and MaxScript

Digital Manufacturing:

3D Printing, CNC, and Laser Cutter

LANGUAGES

English | fluent

Arabic | native

REFERENCES

Michael Kleiss, PhD

Associate Professor of Architecture | Clemson University | Lee 3-123, Clemson, SC 29634

crbh@clemson.edu | tel. 617.584.1804 <http://crbh.people.clemson.edu/>

Akel Ismael Kahera, PhD

Dean | Virginia Commonwealth University in Qatar | Ar-Rayyan, Qatar

akahera@vcu.edu 974-4402-0682 <http://www.qatar.vcu.edu/people/akel-kahera>

Joseph Choma

Assistant Professor of Architecture | Clemson University | Lee 1-160, Clemson, SC 29634

Jchoma@clemson.edu | tel. 914.844.5528 <http://www.designtopology.com>