

## EDUCATION

2012-2018	<b>University of Michigan</b> , Taubman College of Architecture and Urban Planning (TCAUP) <u>Ph.D. in Architecture   Building Technology</u>	Ann Arbor, MI
2015	<b>University of Michigan</b> , Taubman College of Architecture and Urban Planning (TCAUP) <u>Master of Science   Architecture Design and Research</u>	Ann Arbor, MI
2011	<b>Iran University of Science and Technology (IUST)</b> , School of Architecture and Urban Planning <u>Master of Architecture   Technology of Architecture</u>	Tehran, Iran
2008	<b>Shahid Rajayee University</b> , School of Art & Architecture <u>Bachelor of Architecture</u>	Tehran, Iran

## EMPLOYMENT HISTORY

2021-present	<u>Assistant Professor</u> . School of Architecture, University of Illinois (U of I)	Urbana-Champaign, IL
2018-2021	<u>Assistant Professor</u> . School of Architecture, Louisiana State University (LSU)	Baton Rouge, LA
2017-summer	<u>Research Intern</u> . Autodesk Inc.	San Francisco, CA
2017-spring	<u>Adjunct Faculty</u> . Kendall College of Art and Design (KCAD), Ferris State University	Grand Rapids, MI
2014-2018	<u>Graduate Student Instructor</u> . Taubman College of Architecture & Urban Planning (TCAUP), U of M	Ann Arbor, MI
2012-2014	<u>Graduate Student Research Assistant</u> . Taubman College of Arch. & Urban Planning (TCAUP), U of M	Ann Arbor, MI
2005-2011	<u>Architect</u> . Zhair Firm, Tehran, Iran	Tehran, Iran

## SELECT AWARDS & HONORS

2020	Tiger Athletic Foundation Undergraduate Teaching Award, LSU, \$2,000
2020	ARCC Research Incentive Award, \$5,000
2018-20	A. Hays Town Professorship in Architecture, LSU, \$10,000
2016	Rackham Summer Award, Rackham Graduate School, U of M, \$8,000
2014	First runner up award in the first DIVA Day Student Competition, \$750
2014	Helen Wu Award, Rackham Graduate School, U of M, \$5,000

## RESEARCH

<b>Louisiana State University (LSU)</b>		Baton Rouge, LA, US
2019-2021	<b>Flexi-form: design and fabrication of additive flexible formwork for the design of concrete interlocking modules</b> <b>(\$5,000)</b> Role: Principal Investigator Sponsor: ARCC Research Incentive Award   Architectural Research Centers Consortium	
2018-2020	<b>Interlocking Concrete Modules</b> <b>(\$5,000)</b> Role: Principal Investigator Sponsor: Seed funding, School of Architecture, Louisiana State University	
<b>University of Michigan, Taubman College of Architecture and Urban Planning (TCAUP)</b>		Ann Arbor, MI, USA
2014-2018	<b>Multi-disciplinary performance-based design of perforated shell structures</b> Role: Ph.D. Research   PI: Professor of Practice Harry Giles and Professor Peter von Buelow	

2017-2018 **Catenary Concrete Funicular Formwork**  
Role: Research Assistant | PI: Assistant Professor of Practice Jonathan Rule and Assistant Professor Ana Morcillo Pallares | Sponsor: Research Through Making

2012-2014 **Composite glass beam**  
Role: Research Assistant | PI: Professor of Practice Harry Giles

**Autodesk Inc., Product Development Group (PDG)** San Francisco, CA, USA

2017-Summer **Emerging AEC workflows in Architecture, Engineering and Construction (AEC) for Quantum Project**  
Role: Research intern | Advisors: Tantjana Dzambazova, Philippe Videau | Group: Product Development Group (PDG)

**Perkins + Will, Design Process Research Lab** San Francisco, CA, USA

2017-February **Computational design space exploration of A Quitafiya Complex in Doha**  
Role: Research Intern | Advisor: John Haymaker | Group: Design Process Research Lab

**Iran University of Science & Technology (IUST), School of Architecture and Urban Planning** Tehran, Iran

2010-2011 **Structural glass facades**  
M.Arch thesis | Advisor: Dr. Hashem Hashemnejad

## SELECT PUBLICATIONS

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2021 Emami, Niloufar. "Molding Liquid Stone: A computational and experimental mixed method study of 3D print formwork for interlocking concrete modules." *Technology | Architecture + Design (TAD): Open*, vol. 5, no. 1, p. 96.

2020 Emami, Niloufar. "Disregarded design spaces: a proposed approach to draw connections between computationally generated solution spaces and actual built case studies." *International Journal of Architectural Computing (IJAC)*.

2020 Emami, Niloufar; Giles, Harry; von Buelow, Peter. "Structural, daylighting, and energy performance of perforated concrete shell structures." *Automation in Construction*, vol. 117, p. 103249.

2019 Emami, Niloufar. "Untangling parameters: a formalized framework for identifying overlapping design parameters between two disciplines for creating an interdisciplinary parametric model." *Journal of Advanced Engineering Informatics*, vol. 42, p. 100943.

2016 Emami, Niloufar. Giles, Harry. "Geometric patterns, light, and shade: quantifying aperture ratio and pattern resolution in the performance of shading screens," *Nexus Network Journal: special issue on Persian Architecture and Mathematics*, vol.18, no. 1, p. 197.

## CREATIVE ACTIVITY + EXHIBITIONS

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2020 **Virtual Frictions: All-School Digital Design and Fabrication Workshop**, Chair and organizer  
[https://youtu.be/VacUk\\_T-rEk](https://youtu.be/VacUk_T-rEk)  
Organizers: Niloufar Emami, Zachary Angles, Soo Jo  
Keynote and workshop leader: Brandon Clifford, MIT  
Workshop leaders: Emily Baker, Jonathan Desi-Olive, Shelby Doyle, Olga Mesa, Ebrahim Poustinchi, Lavender Tessmer.  
Participants: This was a three day all school workshop when all classes stop and students in their second year of studies and up participated in seven parallel workshops. About 150 students participated in this workshop.

2019 **Topological Interlocking Sunscreens**  
Organizer and design adviser: Niloufar Emami  
Design: Tanner Theisen, Jack Burleigh, Mustafa Hamed, Chen X, Logan Osborn, Willie Kirts Fairuz Sowma, Miguel Bermudez.  
Venue: Atkinson Hall, School of Architecture, LSU  
On View: December 12, 2019 – January 5, 2020