

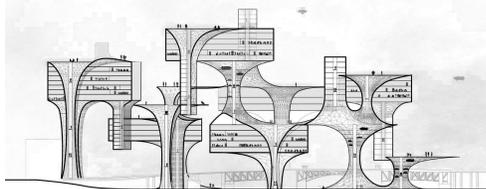
# Wearable Architecture | Light-Weight Structures in Architecture

## ARCH 4/508 // Summer 2019 UO Eugene

Instructors: Marziah Rajabzadeh and Mohsen Marizad

Course hrs: Online work starts Jun 24 with Online follow up work due Aug 4.

Face to face intensive: Sat July 13 & Sun July 14: 9am-12 noon and 1pm-4pm,  
Mon-Thurs July 15-July 18: 1pm-5pm  
Fri July 19 & Sat July 20: 9am-12noon, 1pm-4pm



### Course Description

With the advent of digital tools and computational design, new possibilities are being explored in the application of light-weight structures and minimal surface geometries towards future sustainable design. However, although new technologies have facilitated digital modeling of complex geometries; their design, materiality and construction in the discipline of architecture is still largely unexplored. The objective of this course is to both understand the potential of design using minimal surfaces, but also to gain an appreciation for the complexity of designing within this framework.

### Studio Brief and Methodology

This course creates a unique opportunity to explore the design and fabrication of minimal surface structures at a human scale, while incorporating an investigative element into better understanding the intersection of architecture, technology, structure, material and the human body. The design idea is to work within a creative space that focuses on how the human body interacts and connects with what we wear, with other people, and with the broader environment.

Image credits // top: UO Students Ana Misenas and Alison Bartlett propose a minimal surface urban node. Middle: Design Week Portland 2018 Pavilion by Bora Architects. Bottom Left: Cosmic Bubble, design of a wearable microclimate by Vlad Tenu. Bottom right (upper): Studies by UO Students Rachel Rimmer, Betty Lou Poston, Ryan



## About the Instructors



**Mohsen Marizad** is an award winning Iranian architectural designer and design instructor. He has practiced and taught architectural design in the United States, Europe, Asia and the Middle East. Mohsen is interested in the reciprocal relationship of architecture, urban design and landscape. He is particularly focused on the understanding of morphology and its relation to performance, aesthetics and environmental integration. Mohsen was awarded the Architizer Jury Award in 2017 for the design of Farmanieh Residential Tower in Tehran, Iran, and the 2018 Architizer Jury Award for the design of the Hamedan Chamber of Commerce in Hamedan, Iran. Mohsen is currently a project designer at Gensler, and lives in San Jose California.



**Marziah Zad** is part of the faculty and Academic Coordinator for the Master in Advanced Ecological Buildings at the Institute for Advanced Architecture of Catalonia in Barcelona, Spain. She is the former Director of Design at Built by Associative Data's Barcelona office, and was awarded the Architizer Jury Award in 2018 for the design of Hamedan Chamber of Commerce, in Hamedan Iran. The core focus of her professional and pedagogical efforts is a research-based design process which uses mathematical and natural geometry systems as a generative design engine. She currently lives in Spain.

Marziah and Mohsen are founding partners of UDA, a multiscalar design practice based in Tehran, Iran. Find out more about their work at [www.uniteddesign-architects.com](http://www.uniteddesign-architects.com)