



Dr. Maryam Hojati is an assistant professor in Civil, Construction, and Environmental Engineering at the University of New Mexico (UNM). She received her Ph.D. in 2017 from the Pennsylvania State University. During her academic experience, she worked on a variety of research studies that equipped her with the skills to conduct diverse research in material, structure, and application of Additive Manufacturing in Construction. She was involved in multi phases of the NASA Centennial Challenge from 2016 to 2019 NASA to build a 3D-printed habitat for deep space exploration. Currently, she is working with a team of graduate students at UNM, and her research interests include sustainable materials, structures, and construction practice by using emerging technologies to enable resilient infrastructure.

IEEE Albuquerque WIE Affinity Group
Chair: Khandakar Nusrat Islam
Advisor: Prof. Eirini Eleni Tsiropoulou

Additive Manufacturing of Affordable, Secure, and Sustainable Housing in Support of A Healthy Global Population

MARYAM HOJATI, PH.D.

Assistant Professor

Wed, Feb 23 5:30pm



ZOOM VIRTUAL MEETING

Free and Open to the Public
Pre-registration required

<https://unm.zoom.us/j/99869214065>

Abstract:

Today over one billion people live in slums and other unhealthy living conditions. Another 2.5 billion people worldwide are projected to migrate gradually into urban areas by 2050. With rapid urbanization, climate change, and resource shortages, the number of individuals/families needing safe, affordable, and dignified housing will increase. New technologies such as additive manufacturing (AM) enables the production of industrial products and, due to its flexibility, is claimed to be the next industrial revolution. AM also holds great potential to assist engineers and architects in producing fast, economical and complex structures and buildings. This presentation will introduce recent advances in digital construction to construct Earth projects and make new advancements for construction outside the Earth, such as on Moon or Mars.

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