

# SEMINAR SERIES

Supported by The Department of Biomechanics and  
The Center for Research in Human Movement Variability (MOVCENTR)



## BIOMECHANICS OF HUMAN ARTERIES IN THE CONTEXT OF AGING

Featuring Dr. Majid Jadidi  
University of Nebraska at Omaha



Friday, Sept. 3 | 12:00 - 1:15 pm | Via Zoom

<https://unomaha.zoom.us/j/92012305734>

### PRESENTATION ABSTRACT

Despite their seemingly simple nature, arteries are not simple rigid tubes that carry blood. They are living organisms that grow, adapt, develop diseases, and respond differently to treatments. Arterial mechanical and structural characteristics play important roles in vascular physiology and pathophysiology and profoundly influence the design and clinical performance of repair materials and devices. In this presentation, Dr. Jadidi talks about his research on biomechanical analysis of the two main human artery types, elastic and muscular, explain several common misconceptions regarding changes in elastic and muscular artery stiffness with age, unravel important aspects of vascular mechanophysiology and adaptation to aging, and report arterial characteristics that can be used to guide the development of artery-specific repair materials and devices.

### ABOUT DR. JADIDI

Dr. Majid Jadidi joined the Department of Biomechanics as an Assistant Professor in Spring 2021, after graduating with a Ph.D. in Mechanical Engineering from the UNL. As a faculty member at UNO, he does translational research in cardiovascular mechanobiology and develops mathematical and machine-learning models to describe the interplay of biology and mechanics in biomaterials and tissues.

more info at [cobre.unomaha.edu](http://cobre.unomaha.edu)

\*This seminar was supported by the National Institutes of General Medical Sciences of the National Institutes of Health under Award Number P20GM109090 Center for Research in Human Movement Variability. | The University of Nebraska at Omaha shall not discriminate based upon age, race, ethnicity, color, national origin, gender identity, sex, pregnancy, disability, sexual orientation, genetic information, veteran's status, marital status, religion, or political affiliation.

UNIVERSITY OF  
**Nebraska**  
Omaha

