

Stanford



Mrudang Mathur

Postdoctoral Scholar, Thoracic Surgery

Bio

BIO

Mrudang Mathur is a Postdoctoral Scholar in the Department of Cardiothoracic Surgery working with Dr. William Hiesinger. He received his B.Tech in Mechanical Engineering from Delhi Technological University before completing his PhD in Mechanical Engineering at the University of Texas at Austin under the supervision of Dr. Manuel K. Rausch. His research interests include cardiovascular biomechanics, computational science, image processing, and scientific visualization.

HONORS AND AWARDS

- AHA Predoctoral Fellowship, American Heart Association (1/2022-12/2023)
- Dean's Prestigious Fellowship Supplement, The University of Texas at Austin (2023,2022)
- USNCCM17 Travel Award, US Association for Computational Mechanics (2023)
- Annual Meeting Travel Award, Society of Engineering Science (2022)
- Warren A. & Alice L. Meyer Scholarship in Engineering, The University of Texas at Austin (2021,2019)
- Summer Research Fellowship, Nanyang Technological University (2017)
- International Additive Manufacturing Challenge - Best Reengineered Product, ASME (2016)
- Merit Scholarship, Delhi Technological University (2014)
- DST INSPIRE Scholarship (declined), Government of India (2014)

PROFESSIONAL EDUCATION

- PhD, The University of Texas at Austin , Mechanical Engineering (2024)
- BTech, Delhi Technological University , Mechanical Engineering (2018)

STANFORD ADVISORS

- William Hiesinger, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Leaflet remodeling reduces tricuspid valve function in a computational model** *JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS*
Mathur, M., Malinowski, M., Jazwiec, T., Timek, T. A., Rausch, M. K.
2024; 152: 106453