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INSTITUTE AFFILIATIONS

- Member, Maternal & Child Health Research Institute (MCHRI)

STANFORD ADVISORS

- Alison Marsden, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **Alterations in ascending aortic hemodynamics and aortic length correlate with sex-specific thoracic aortic aneurysm dilation and lifespan in a mouse model of severe Marfan syndrome.** *Computers in biology and medicine*
  Dwivedi, K. K., Wu, Y., Bazzi, M. S., Wiputra, H., Rother, J., Quirk, J. D., Barocas, V. H., Wagenseil, J. E.
  2026; 205: 111594

- **Computational Analysis of Flow and Transport Suggests Reduced Oxygen Levels Within Intracranial Aneurysms, Especially in Individuals With Sickle-Cell Disease** *JOURNAL OF BIOMECHANICAL ENGINEERING-TRANSACTIONS OF THE ASME*
  Bazzi, M. S., Wiputra, H., Wood, D. K., Barocas, V. H.
  2025; 147 (2)

- **A novel perfusion bioreactor promotes the expansion of pluripotent stem cells in a 3D-bioprinted tissue chamber** *BIOFABRICATION*
  Komosa, E. R., Lin, W., Mahadik, B., Bazzi, M. S., Townsend, D., Fisher, J. P., Ogle, B. M.
  2024; 16 (1)

- **Computational and experimental comparison on the effects of flow-induced compression on the permeability of collagen gels** *JOURNAL OF THE MECHANICAL BEHAVIOR OF BIOMEDICAL MATERIALS*
  Vidmar, C. S., Bazzi, M., Lai, V. K.
  2022; 128: 105107

- **Experimental and Mouse-Specific Computational Models of the Fbln4^{SMKO} Mouse to Identify Potential Biomarkers for Ascending Thoracic Aortic Aneurysm** *CARDIOVASCULAR ENGINEERING AND TECHNOLOGY*
  Bazzi, M. S., Balouchzadeh, R., Pavey, S. N., Quirk, J. D., Yanagisawa, H., Vedula, V., Wagenseil, J. E., Barocas, V. H.
  2022; 13 (4): 558-572

- **An Experimental-Computational Approach to Quantify Blood Rheology in Sickle Cell Disease** *BIOPHYSICAL JOURNAL*
  Bazzi, M. S., Valdez, J. M., Barocas, V. H., Wood, D. K.
  2020; 119 (11): 2307-2315

- **Effect of viscoelasticity on liquid sheet rupture** *JOURNAL OF NON-NEWTONIAN FLUID MECHANICS*
  Bazzi, M. S., Carvalho, M. S.
  2019; 264: 107-116