Stanford

Priya Nair

Ph.D. Student in Bioengineering, admitted Autumn 2020

Bio

BIO

I received my Bachelor's degree in Biomedical Engineering with a minor in Industrial Design from Georgia Institute of Technology in 2020. During my time at Georgia Tech, I worked as an undergraduate researcher in Dr. Ajit Yoganathan's Cardiovascular Fluid Mechanics Lab. My project was focused on studying the contribution of foreign materials to thrombosis in transcatheter aortic valves using an in vitro flow loop. Beyond my research interests, I was also actively involved in the Society of Women Engineers, promoting outreach activities and creating mentorship opportunities for women in STEM.

INSTITUTE AFFILIATIONS

- Member (Student), Cardiovascular Institute

HONORS AND AWARDS

- American Scandinavian Foundation Fellowship, American Scandinavian Foundation (August 2023)
- NSF Graduate Research Fellowship, National Science Foundation (April 2020)

EDUCATION AND CERTIFICATIONS

- Master of Science, Stanford University , BIOE-MS (2022)
- B.S., Georgia Institute of Technology , Biomedical Engineering (2020)

Publications

PUBLICATIONS

- **Experiments and Simulations to Assess Exercise-Induced Pressure Drop Across Aortic Coarctations.** *Journal of biomechanical engineering*
  Nair, P. J., Perra, E., McElhinney, D. B., Marsden, A., Ennis, D. B., Dual, S.
  2025: 1-16
- **Assessing the Impact of Cardiac Output and Valve Orientation on Bioprosthetic Pulmonary Valve Hemodynamics Using In Vitro 4D-Flow MRI and High-Speed Imaging.** *Cardiovascular engineering and technology*
  Schiavone, N. K., Nair, P. J., Elkins, C. J., McElhinney, D. B., Ennis, D. B., Eaton, J. K., Marsden, A. L.
  2024
- **Benchtop Flow Stasis Quantification: In Vitro Methods and In Vivo Possibilities.** *Cardiovascular engineering and technology*
  Sadri, V., Midha, P. A., Madukauwa-David, I. D., Kamioka, N., Trusty, P. M., Nair, P. J., Cohen, S., Raghav, V., Sharma, R., Babaliaros, V., Yoganathan, A. P.
  2024
- **Non-invasive Estimation of Pressure Drop Across Aortic Coarctations: Validation of 0D and 3D Computational Models with In Vivo Measurements.** *Annals of biomedical engineering*
  Nair, P. J., Pfaller, M. R., Dual, S. A., McElhinney, D. B., Ennis, D. B., Marsden, A. L.

2024