Stanford

Ashish Manohar

Postdoctoral Scholar, Cardiovascular Medicine

Bio

HONORS AND AWARDS

- Postdoctoral Fellowship, American Heart Association (2024)
- Predoctoral Fellowship, American Heart Association (2020)
- Siemens Young Scientist Award, SPIE Medical Imaging (2019)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, University of California San Diego , Mechanical engineering (2022)
- Master of Science, University of California San Diego , Mechanical engineering (2017)
- Bachelor of Engineering, R.V. College of Engineering , Mechanical engineering (2015)

STANFORD ADVISORS

- Koen Nieman, Postdoctoral Faculty Sponsor

LINKS

- Personal webpage: https://ashishmanohar.com/

Research & Scholarship

LAB AFFILIATIONS

- Koen Nieman (8/1/2022)

Publications

PUBLICATIONS

- **Quantitative metrics of the LV trabeculated layer by cardiac CT and cardiac MRI in patients with suspected noncompaction cardiomyopathy.** *European radiology*

  Manohar, A., Vigneault, D. M., Kwon, D. H., Caliskan, K., Budde, R. P., Hirsch, A., Lee, S. P., Lee, W., Owens, A., Litt, H., Haddad, F., Mistelbauer, G., Wheeler, et al

  2023

- **Prediction of cardiac resynchronization therapy response using a lead placement score derived from 4-dimensional computed tomography** *Circulation: Cardiovascular Imaging*

  Manohar, A., Colvert, G. M., Yang, J., Chen, Z., Ledesma-Carbayo, M. J., Kronborg, M. B., Sommer, A., Nørgaard, B. L., Nielsen, J. C., McVeigh, E. R.

  2022; 15 (8): e014165

- **Motion correction of wide-detector 4DCT images for cardiac resynchronization therapy planning.** *Journal of cardiovascular computed tomography*

Manohar, A., Yang, J., Pack, J. D., Ho, G., McVeigh, E. R.
2024

- **Myocardial Regional Shortening from 4D Cardiac CT Angiography for the Detection of Left Ventricular Segmental Wall Motion Abnormality** *RADIOLOGY-CARDIOTHORACIC IMAGING*
  Chen, Z., Contijoch, F., Kahn, A. M., Kligerman, S., Narayan, H. K., Manohar, A., McVeigh, E.
  2023; 5 (2): e220134

- **Detection of left ventricular wall motion abnormalities from volume rendering of 4DCT cardiac angiograms using deep learning** *FRONTIERS IN CARDIOVASCULAR MEDICINE*
  Chen, Z., Contijoch, F., Colvert, G. M., Manohar, A., Kahn, A. M., Narayan, H. K., McVeigh, E.
  2022; 9: 919751

- **Regional left ventricular endocardial strains estimated from low-dose 4DCT: Comparison with cardiac magnetic resonance feature tracking** *MEDICAL PHYSICS*
  Manohar, A., Colvert, G. M., Ortuno, J. E., Chen, Z., Yang, J., Colvert, B. T., Bandettini, W., Chen, M. Y., Ledesma-Carbayo, M. J., McVeigh, E. R.
  2022

- **Four-dimensional computed tomography of the left ventricle, Part I: Motion artifact reduction** *MEDICAL PHYSICS*
  Pack, J. D., Manohar, A., Ramani, S., Claus, B., Yin, Z., Contijoch, F. J., Schluchter, A. J., McVeigh, E. R.
  2022: 4404-4418

- **Four-dimensional computed tomography of the left ventricle, Part II: Estimation of mechanical activation times** *MEDICAL PHYSICS*
  Manohar, A., Pack, J. D., Schluchter, A. J., McVeigh, E. R.
  2022; 49 (4): 2309-2323

- **Novel 4DCT Method to Measure Regional Left Ventricular Endocardial Shortening Before and After Transcatheter Mitral Valve Implantation** *STRUCTURAL HEART-THE JOURNAL OF THE HEART TEAM*
  Colvert, G. M., Manohar, A., Contijoch, F. J., Yang, J., Glynn, J., Blanke, P., Leipsic, J. A., McVeigh, E. R.
  2021; 5 (4): 410-419

- **Regional dynamics of fractal dimension of the left ventricular endocardium from cine computed tomography images** *JOURNAL OF MEDICAL IMAGING*
  Manohar, A., Rossini, L., Colvert, G., Vigneault, D. M., Contijoch, F., Chen, M. Y., Del Alamo, J. C., McVeigh, E. R.
  2019; 6 (4): 046002

- **Anthropomorphic left ventricular mesh phantom: a framework to investigate the accuracy of SQUEEZ using Coherent Point Drift for the detection of regional wall motion abnormalities** *JOURNAL OF MEDICAL IMAGING*
  Manohar, A., Colvert, G. M., Schluchter, A., Contijoch, F., McVeigh, E. R.
  2019; 6 (4): 045001