Stanford



Anoosha Pai S

Postdoctoral Scholar, Radiology

Bio

HONORS AND AWARDS

- Siebel Scholar, Class of 2026, Siebel Scholars Foundation (2025)
- Wu Tsai Human Performance Alliance Graduate Research Fellowship, Wu Tsai Human Performance Alliance at Joe Clara Foundation and Stanford University (2023-2025)
- Stanford Graduate Fellowship, Stanford University (2021-2024)
- Cordula and Gunter Paetzold Fellowship, Faculty of Graduate & Postdoctoral Studies, University of British Columbia, Canada (2019-2020)

PROFESSIONAL EDUCATION

- Doctor of Philosophy, Stanford University , BIOE-PHD (2026)
- PhD, Stanford University , Bioengineering (2026)
- Master of Applied Science, University of British Columbia, Vancouver, Canada , Biomedical Engineering (2021)
- Bachelors of Engineering, BMS College of Engineering, Bangalore, India , Mechanical Engineering (2017)

STANFORD ADVISORS

- Akshay Chaudhari, Postdoctoral Faculty Sponsor

Publications

PUBLICATIONS

- **MOAKS-BASED OSTEOARTHRITIS SHAPE SCORE (MOSS) ENABLES PREDICTION OF CLINICAL OUTCOMES**
  Pai, S., White, M. S., Gold, G., Kogan, F., Chaudhari, A., Gatti, A.
  ELSEVIER SCI LTD.2026: 978-979

- **NEURAL SHAPE MODEL-BASED SCORE OUTPERFORMS CONVENTIONAL MEASURES IN QUANTIFYING EARLY AND PROGRESSIVE JOINT REMODELING IN ANTERIOR CRUCIATE LIGAMENT RECONSTRUCTED KNEES**
  Pai, S., White, M. S., Black, M. S., Young, K., Sherman, S., Chu, C., Williams, A., Gold, G., Kogan, F., Hargreaves, B., Chaudhari, A., Gatti, A.
  ELSEVIER SCI LTD.2026: S271-S272

- **Adaptations in biceps femoris long-head muscle-tendon mechanics during the Nordic hamstring exercise in response to 9 weeks of training.** *Journal of sport and health science*
  Andrews, M. H., S, A. P., Gurchiek, R. D., Hodges, P. W., Lichtwark, G. A., Delp, S. L., Pincheira, P. A.
  2026: 101134

- **Automated Segmentation of Forearm Muscles: Clinical Associations With Hand Function, Muscle Volume and Intramuscular Fat.** *JCSM communications*
  Fundaun, J., Oliva, V., Bédard, S., Wesselink, E. O., Lynn, B. P., Pai S, A., Pfyffer, D., Kaptan, M., Berhe, N., Ratliff, J., Hu, S. S., Smith, Z. A., Hastie, et al

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- **Hamstring muscle architecture and microstructure changes following Nordic hamstring exercise training and detraining.** *Journal of sport and health science*
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- **T2 Clusters Are More Sensitive Than Mean T2 Change to Detect Early and Longitudinal Changes in Anterior Cruciate Ligament Reconstructed and Healthy Knees.** *Journal of magnetic resonance imaging : JMRI*
  Pai S, A., Gatti, A. A., Black, M. S., Young, K. A., Desai, A. D., Barbieri, M., Asay, J. L., Sherman, S. L., Gold, G. E., Kogan, F., Hargreaves, B. A., Chaudhari, A. S.
  2024

- **Multiscale hamstring muscle adaptations following 9 weeks of eccentric training.** *Journal of sport and health science*
  Andrews, M. H., S, A. P., Gurchiek, R. D., Pincheira, P. A., Chaudhari, A. S., Hodges, P. W., Lichtwark, G. A., Delp, S. L.
  2024: 100996

- **Estimation and assessment of sagittal spinal curvature and thoracic muscle morphometry in different postures** *PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS PART H-JOURNAL OF ENGINEERING IN MEDICINE*
  Pai, A. S., Zhang, H., Ashjaee, N., Wilson, D. R., Brown, S. H. M., Fels, S., Street, J., Oxland, T. R.
  2021; 235 (8): 883-896

- **Preliminary investigation of spinal level and postural effects on thoracic muscle morphology with upright open MRI** *JOR SPINE*
  Pai, S., Zhang, H., Street, J., Wilson, D. R., Brown, S. H. M., Oxland, T. R.
  2021; 4 (1)

- **A Tunable Variable-Torque Compliant Hinge Using Open-Section Shells** *JOURNAL OF MECHANISMS AND ROBOTICS-TRANSACTIONS OF THE ASME*
  Hampali, S., Pai, A. S., Ananthasuresh, G. K.
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- **Quantitative identification and segmentation repeatability of thoracic spinal muscle morphology** *JOR SPINE*
  Pai, A. S., Zhang, H., Shewchuk, J. R., Al Omran, B., Street, J., Wilson, D., Doroudi, M., Brown, S. H. M., Oxland, T. R.
  2020; 3 (3): e1103

- **An Open-Section Shell Designed for Customized Bending and Twisting to Ease Sitting and Rising in a Chair**
  Hampali, S., Anoosha, P. S., Ananthasuresh, G. K.
  edited by Badodkar, D. N., Dwarakanath, T. A.
  SPRINGER-VERLAG BERLIN.2019: 427-439