Stanford



Calvin Perumalla

Basic Life Research Scientist, Surgery - General Surgery

Resume available Online

Bio

BIO

Dr. Calvin Perumalla joined the Stanford's TECI Center team as a postdoctoral researcher in February 2021. He received his Masters and Doctorate degrees in Electrical Engineering from the University of South Florida. His graduate research work involved building a novel cardiac rhythm monitor with enhanced diagnostic capabilities. He was also involved in building machine learning models to detect cardiac abnormalities. Dr. Perumalla later spent two years working at a late-stage startup where he was involved in building AI models to detect anomalies in computer networks. He is passionate about using AI to improve the quality of human life and his current research interests include Computer Vision, Image Segmentation and Surgical Data Science.

ACADEMIC APPOINTMENTS

- Basic Life Research Scientist, Surgery - General Surgery

Publications

PUBLICATIONS

- **AI-Based Video Segmentation: Procedural Steps or Basic Maneuvers?** *The Journal of surgical research*
  Perumalla, C., Kearse, L., Peven, M., Laufer, S., Goll, C., Wise, B., Yang, S., Pugh, C.
  2022; 283: 500-506
- **Do Individual Surgeon Preferences Affect Procedural Outcomes?** *Annals of surgery*
  Mohamadipanah, H., Perumalla, C. A., Kearse, L. E., Yang, S., Wise, B. J., Goll, C. K., Witt, A. K., Korndorffer, J. R., Pugh, C. M.
  2022
- **Artificial intelligence in surgery: A research team perspective.** *Current problems in surgery*
  Mohamadipanah, H., Perumalla, C., Yang, S., Wise, B., Kearse, L., Goll, C., Witt, A., Korndorffer, J. R., Pugh, C.
  2022; 59 (6): 101125
- **In Brief.** *Current problems in surgery*
  Mohamadipanah, H., Perumalla, C., Yang, S., Wise, B., Kearse, L., Goll, C., Witt, A., Korndorffer, J. R., Pugh, C.
  2022; 59 (6): 101127
- **Performance assessment using sensor technology.** *Journal of surgical oncology*
  Mohamadipanah, H., Wise, B., Witt, A., Goll, C., Yang, S., Perumalla, C., Huemer, K., Kearse, L., Pugh, C.
  2021; 124 (2): 200-215