Stanford

Sakti Srivastava

Professor (Teaching) of Surgery (Anatomy)

Surgery - Anatomy

Bio

ACADEMIC APPOINTMENTS

- Professor-Teaching, Surgery - Anatomy
- Member, Bio-X

ADMINISTRATIVE APPOINTMENTS

- Director, Digital MEdIC, (2015-2018)
- Division Chief, Clinical Anatomy, (2010- present)

HONORS AND AWARDS

- Excellence in Promotion of the Learning Environment and Student Wellness, Stanford University School of Medicine (2017)
- Kaiser Foundation Award for Excellence in Teaching, Stanford University School of Medicine (2015)
- Kaiser Foundation Award for Excellence in Teaching, Stanford University School of Medicine (2013)
- Excellence in Teaching Award, Stanford University School of Medicine (2012)
- Mentor Award, Stanford University School of Medicine (2011)

Teaching

COURSES

2026-27

- (CASES) Clinical Anatomy and Surgical Education Series: SURG 256A (Aut)
- (CASES) Clinical Anatomy and Surgical Education Series - Head and Neck and Torso: SURG 256C (Spr)
- Anatomy and Design Innovations: SURG 172 (Spr)
- Anatomy for Artists: SURG 143 (Spr)
- Anatomy for Bioengineers: BIOE 51 (Spr)
- Clinical Anatomy (Macroscopic, Microscopic, Developmental, Imaging): SURG 203 (Aut)
- Clinical Anatomy and Surgical Education Series (CASES): SURG 256B (Win)
- Clinical Neuroanatomy: SURG 103 (Win)
- Embodied Anatomy: Anatomy in Motion: SURG 161, SURG 261 (Spr)
- Head and Neck Anatomy: SURG 102 (Spr)
- Intro to Hands-on Ultrasound: SURG 221 (Aut)

- Medical Etymology: CLASSICS 212, SURG 214 (Win)
- Neuroanatomy in Mental Health: SURG 281 (Aut)
- Portraiture and Facial Anatomy for Artists: ARTSTUDI 139, SURG 241 (Win)
- Regional Study of Human Structure: SURG 101 (Win)
- The Anatomy of Figure Painting: ARTSTUDI 140P, SURG 240 (Spr)
- Virtual And Real: Human Anatomy And Sports Injuries Of The Head And Neck: SURG 100B (Win)
- Virtual and Real: Human Anatomy and Sports Injuries of the Limbs and Torso: SURG 100A (Aut)
- Virtual and Real: Human Anatomy and Sports Injuries: Grand Rounds: SURG 100C (Spr)

2025-26

- (CASES) Clinical Anatomy and Surgical Education Series: SURG 256A (Aut)
- (CASES) Clinical Anatomy and Surgical Education Series - Head and Neck and Torso: SURG 256C (Spr)
- Anatomy and Design Innovations: SURG 172 (Spr)
- Anatomy for Artists: ARTSTUDI 243, SURG 143 (Spr)
- Anatomy for Bioengineers: BIOE 51 (Spr)
- Art and Anatomy Studio: SURG 242 (Spr)
- Clinical Anatomy (Macroscopic, Microscopic, Developmental, Imaging): SURG 203 (Aut)
- Clinical Anatomy and Surgical Education Series (CASES): SURG 256B (Win)
- Embodied Anatomy: Anatomy in Motion: SURG 161, SURG 261 (Spr)
- Head and Neck Anatomy: SURG 102 (Spr)
- Intro to Hands-on Ultrasound: SURG 221 (Aut, Win)
- Medical Etymology: CLASSICS 212, SURG 214 (Win)
- Portraiture and Facial Anatomy for Artists: ARTSTUDI 139, SURG 241 (Win)
- Regional Study of Human Structure: SURG 101 (Win)
- The Anatomy of Figure Painting: ARTSTUDI 140P, SURG 240 (Aut, Win)
- Virtual And Real: Human Anatomy And Sports Injuries Of The Head And Neck: SURG 100B (Win)
- Virtual and Real: Human Anatomy and Sports Injuries of the Limbs and Torso: SURG 100A (Aut)
- Virtual and Real: Human Anatomy and Sports Injuries: Grand Rounds: SURG 100C (Spr)

2024-25

- (CASES) Clinical Anatomy and Surgical Education Series: SURG 256A (Aut)
- (CASES) Clinical Anatomy and Surgical Education Series - Head and Neck and Torso: SURG 256C (Spr)
- Anatomy and Design Innovations: SURG 172 (Spr)
- Anatomy for Artists: ARTSTUDI 243, SURG 143 (Spr)
- Anatomy for Bioengineers: BIOE 51 (Spr)
- Art and Anatomy Studio: SURG 242 (Spr)
- Clinical Anatomy: SURG 203 (Aut)
- Clinical Anatomy and Surgical Education Series (CASES): SURG 256B (Win)
- Head and Neck Anatomy: SURG 102 (Spr)
- Imaging Anatomy for Thoracoabdominal Emergencies: SURG 223 (Win)
- Medical Etymology: CLASSICS 212, SURG 214 (Win)

- Portraiture and Facial Anatomy for Artists: ARTSTUDI 139, SURG 241 (Win)
- Regional Study of Human Structure: SURG 101 (Win)
- Virtual And Real: Human Anatomy And Sports Injuries Of The Head And Neck: SURG 100B (Win)
- Virtual and Real: Human Anatomy and Sports Injuries of the Limbs and Torso: SURG 100A (Aut)
- Virtual and Real: Human Anatomy and Sports Injuries: Grand Rounds: SURG 100C (Spr)

2023-24

- (CASES) Clinical Anatomy and Surgical Education Series: SURG 256A (Aut)
- Anatomy for Artists: ARTSTUDI 243, SURG 143 (Spr)
- Anatomy for Bioengineers: BIOE 51 (Spr)
- Art and Anatomy Studio: SURG 242 (Spr)
- Clinical Anatomy: SURG 203 (Aut)
- Clinical Anatomy and Surgical Education Series (CASES) - Torso: SURG 256B (Win)
- Head and Neck Anatomy: SURG 102 (Spr)
- Portraiture and Facial Anatomy for Artists: ARTSTUDI 139, SURG 241 (Win)
- Regional Study of Human Structure: SURG 101 (Win)
- Virtual And Real: Human Anatomy And Sports Injuries Of The Head And Neck: SURG 100B (Win)
- Virtual and Real: Human Anatomy and Sports Injuries of the Limbs and Torso: SURG 100A (Aut)

STANFORD ADVISEES

Med Scholar Project Advisor

Madelyn Mauro

Publications

PUBLICATIONS

- **Exploring Virtual Reality (VR) as an Anatomy Teaching Supplement.** *FASEB journal : official publication of the Federation of American Societies for Experimental Biology*
  Nguyen, J., Jo, S., Angeles, R., Richardson, A., Srivastava, S.
  2022; 36 Suppl 1
- **Exploring Virtual Reality (VR) as an Anatomy Teaching Supplement**
  Nguyen, J., Jo, S., Angeles, R., Richardson, A., Srivastava, S.
  WILEY.2022
- **Violins, medicine, and the art of listening** *MEDICAL TEACHER*
  Ho, V., Srivastava, S.
  2019; 41 (11): 1321–22
- **Improvement of Spatial and Non-verbal General Reasoning Abilities in Female Veterinary Medical Students Over the First 64 Weeks of an Integrated Curriculum** *FRONTIERS IN VETERINARY SCIENCE*
  Gutierrez, J., Holladay, S. D., Arzi, B., Clarkson, C., Larsen, R., Srivastava, S.
  2019; 6: 141
- **Violins, medicine, and the art of listening.** *Medical teacher*
  Ho, V., Srivastava, S.
  2019: 1–2
- **Transvaginal ultrasound guided trigone and bladder injection: A cadaveric feasibility study for a novel route of intradetrusor chemodenervation** *INVESTIGATIVE AND CLINICAL UROLOGY*

Syan, R., Briggs, M. A., Olivas, J. C., Srivastava, S., Comiter, C., Dobberfuhl, A. D.
2019; 60 (1): 40–45

- **Physical Medicine and Rehabilitation: Trends in Graduate Medical Education and Subspecialization Amid Changing Demographics.** *American journal of physical medicine & rehabilitation*
  Petriceks, A. H., Hales, H. A., Srivastava, S. n.
  2019; 98 (10): 931–36
- **Evaluation of an E-Learning Course for Clubfoot Treatment in Tanzania: A Multicenter Study** *JOURNAL OF MEDICAL EDUCATION AND CURRICULAR DEVELOPMENT*
  Vaca, S. D., Warstadt, N. M., Ngayomela, I. H., Nungu, R., Kowero, E. S., Srivastava, S.
  2018; 5: 2382120518771913
- **Commentary on A Body of Work: Painting a Decade of Gross Dissection.** *Academic medicine : journal of the Association of American Medical Colleges*
  Rodriguez, S. n., Srivastava, S. n.
  2018; 93 (3): 429
- **Entry-Level Spatial and General Non-verbal Reasoning: Can These Abilities be Used as a Predictor for Anatomy Performance in Veterinary Medical Students?** *Frontiers in veterinary science*
  Gutierrez, J. C., Holladay, S. D., Arzi, B., Gomez, M., Pollard, R., Youngblood, P., Srivastava, S.
  2018; 5: 226
- **Trends in Geriatrics Graduate Medical Education Programs and Positions, 2001 to 2018** *GERONTOLOGY AND GERIATRIC MEDICINE*
  Petriceks, A. H., Olivas, J. C., Srivastava, S.
  2018; 4
- **Photogrammetry of Human Specimens: An Innovation in Anatomy Education.** *Journal of medical education and curricular development*
  Petriceks, A. H., Peterson, A. S., Angeles, M., Brown, W. P., Srivastava, S.
  2018; 5: 2382120518799356
- **Trends in Geriatrics Graduate Medical Education Programs and Positions, 2001 to 2018.** *Gerontology & geriatric medicine*
  Petriceks, A. H., Olivas, J. C., Srivastava, S.
  2018; 4: 2333721418777659
- **Spatial and Visual Reasoning: Do These Abilities Improve in First-Year Veterinary Medical Students Exposed to an Integrated Curriculum?** *JOURNAL OF VETERINARY MEDICAL EDUCATION*
  Gutierrez, J., Chigerwe, M., Ilkiw, J. E., Youngblood, P., Holladay, S. D., Srivastava, S.
  2017; 44 (4): 669–75
- **An augmented reality tool for learning spatial anatomy on mobile devices** *CLINICAL ANATOMY*
  Jain, N., Youngblood, P., Hasel, M., Srivastava, S.
  2017; 30 (6): 736–41
- **Collaborative Networked Virtual Surgical Simulators (CNVSS) Implementing Hybrid Client-Server Architecture: Factors Affecting Collaborative Performance** *PRESENCE-TELEOPERATORS AND VIRTUAL ENVIRONMENTS*
  Diaz, C., Trefftz, H., Quintero, L., Acosta, D. A., Srivastava, S.
  2015; 23 (4): 393-409
- **Collaborative Networked Virtual Surgical Simulators (CNVSS): Factors Affecting Collaborative Performance** *PRESENCE-TELEOPERATORS AND VIRTUAL ENVIRONMENTS*
  Diaz, C., Trefftz, H., Quintero, L., Acosta, D. A., Srivastava, S.
  2013; 22 (1): 54-66
- **Design, Development, and Evaluation of an Online Virtual Emergency Department for Training Trauma Teams** *SIMULATION IN HEALTHCARE*
  Youngblood, P., Harter, P. M., Srivastava, S., Moffett, S., Heinrichs, W. L., Dev, P.
  2008; 3 (3): 146-153
- **Virtual Worlds for Teaching the New CPR to High School Students** *15th Conference on Medicine Meets Virtual Reality*

Youngblood, P., Hedman, L., Creutzfeld, J., Fellander-Tsai, L., Stengard, K., Hansen, K., Dev, P., Srivastava, S., Kusumoto, L., Hendrick, A., Heinrichs, W. L.
I O S PRESS.2007: 515–519

- **Collaborative learning using Internet2 and remote collections of stereo dissection images** *CLINICAL ANATOMY*
  Dev, P., Srivastava, S., Senger, S.
  2006; 19 (3): 275-283

- **The effect of arthroscopic sectioning of the lateral ligament complex of the elbow on posterolateral rotatory stability** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
  McAdams, T. R., Masters, G. W., Srivastava, S.
  2005; 14 (3): 298-301

- **Comparison of training on two laparoscopic simulators and assessment of skills transfer to surgical performance** *JOURNAL OF THE AMERICAN COLLEGE OF SURGEONS*
  Youngblood, P. L., Srivastava, S., Curet, M., Heinrichs, W. L., Dev, P., Wren, S. M.
  2005; 200 (4): 546-551

- **The fundamental manipulations of surgery: A structural vocabulary for designing surgical curricula and simulators** *JOURNAL OF THE AMERICAN ASSOCIATION OF GYNECOLOGIC LAPAROSCOPISTS*
  Heinrichs, W. L., Srivastava, S., Montgomery, K., Dev, P.
  2004; 11 (4): 450-456

- **LUCY: A 3-D pelvic model for surgical simulation** *JOURNAL OF THE AMERICAN ASSOCIATION OF GYNECOLOGIC LAPAROSCOPISTS*
  Heinrichs, W. L., Srivastava, S., Dev, P., Chase, R. A.
  2004; 11 (3): 326-331

- **Evaluation of a surgical simulator for learning clinical anatomy** *MEDICAL EDUCATION*
  Hariri, S., Rawn, C., Srivastava, S., Youngblood, P., Ladd, A.
  2004; 38 (8): 896-902

- **Initial evaluation of a shoulder arthroscopy simulator: Establishing construct validity** *JOURNAL OF SHOULDER AND ELBOW SURGERY*
  Srivastava, S., Youngblood, P. L., Rawn, C., Hariri, S., Heinrichs, W. L., Ladd, A. L.
  2004; 13 (2): 196-205

- **Arthroscopic evaluation of scaphoid waist fracture stability and the role of the radioscaphocapitate ligament** *ARTHROSCOPY-THE JOURNAL OF ARTHROSCOPIC AND RELATED SURGERY*
  McAdams, T. R., Srivastava, S.
  2004; 20 (2): 152-157

- **Educational tools in support of the Stanford MediaServer** *Joint Conference on Digital Libraries*
  Stevenson, D., Chao, C. C., Srivastava, S., Durack, J. C., Ladd, A., Montgomery, K., Dev, P.
  IEEE COMPUTER SOC.2003: 377–377

- **Simulated medical learning environments on the Internet** *JOURNAL OF THE AMERICAN MEDICAL INFORMATICS ASSOCIATION*
  Dev, P., Montgomery, K., Senger, S., Heinrichs, W. L., Srivastava, S., Waldron, K.
  2002; 9 (5): 437-447

- **Visual representations of physical abilities: Reverse haptic technology?** *10th Annual Medicine Meets Virtual Reality Conference*
  Pugh, C. M., Srivastava, S., Heinrichs, M. L.
  I O S PRESS.2002: 380–381

- **Interactive simulation of the human hand** *16th International Congress and Exhibition on Computer Assisted Radiology and Surgery*
  Sibille, L., Teschner, M., Srivastava, S., Latombe, J. C.
  SPRINGER-VERLAG BERLIN.2002: 7–12

- **Simulated learning environments in anatomy and surgery delivered via the Next Generation Internet** *10th World Congress on Medical Informatics (MEDINFO 2001)*
  Dev, P., Heinrichs, W. L., Srivastava, S., Montgomery, K. N., Senger, S., Temkin, B., Hasser, C., Latombe, J. C., HEEGAARD, J., Youngblood, P., Friedman, C. P., Waldron, K.
  I O S PRESS.2001: 1014–1018

- **The effect of simulator use on learning and self-assessment: The case of Stanford University's E-Pelvis simulator** *Conference on Medicine Meets Virtual Reality 2001*
  Pugh, C. M., Srivastava, S., SHAVELSON, R., Walker, D., Cotner, T., Scarloss, B., Kuo, M., Rawn, C., Dev, P., Krummel, T. H., Heinrichs, L. H.
  I O S PRESS.2001: 396–400

- **Visual language to interface users of educational surgical simulators for fundamental surgical manipulations** *14th International Congress and Exhibition on Computer Assisted Radiology and Surgery (CARS 2000)*
  Heinrichs, W. L., Srivastava, S., Pugh, C., Rakhlin, L., Montgomery, K., PICHUMANI, R., Rao, S., Dev, P.
  ELSEVIER SCIENCE BV.2000: 29–34