

Stanford



Sakti Srivastava

Associate Professor (Teaching) of Surgery (Anatomy) and, by courtesy, of
Bioengineering
Surgery - Anatomy

Bio

ACADEMIC APPOINTMENTS

- Associate Professor (Teaching), Surgery - Anatomy
- Associate Professor (Teaching) (By courtesy), Bioengineering
- 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

2019-20

- (CASES) Clinical Anatomy and Surgical Education Series - Head and Neck: SURG 255 (Spr)
- (CASES) Clinical Anatomy and Surgical Education Series - Torso and Limbs: SURG 256 (Aut)
- Anatomy for Artists: ARTSTUDI 243, SURG 243 (Spr)
- Anatomy for Bioengineers: BIOE 51 (Spr)
- Anatomy in Society: SURG 72Q (Spr)
- Art and Anatomy Studio: SURG 242 (Spr)
- Clinical Anatomy: SURG 203 (Aut)
- Head and Neck Anatomy: SURG 101A (Spr)
- Medical Etymology: SURG 214 (Aut, Win)
- Operative Anatomy and Techniques: SURG 254 (Win)

- Portraiture and Facial Anatomy for Artists: ARTSTUDI 139, SURG 241 (Win)
- Regional Study of Human Structure: SURG 101 (Win)
- Science of Medicine III-B: INDE 223B (Win)
- Ultrasound Anatomy: SURG 221 (Aut, Win)
- Virtual And Real: Clinical Anatomy And Sports Injuries Of The Head And Neck: SURG 100B (Win)
- Virtual and Real: Clinical Anatomy and Sports Injuries: SURG 100C (Spr)
- Virtual and Real: Clinical Anatomy and Sports Injuries of the Limbs and Torso: SURG 100A (Aut)

2018-19

- (CASES) Clinical Anatomy and Surgical Education Series - Head and Neck: SURG 256B (Aut, Spr)
- Anatomy for Artists: ARTSTUDI 243, SURG 243 (Spr)
- Anatomy for Bioengineers: BIOE 51 (Spr)
- Anatomy in Society: SURG 72Q (Spr)
- Art and Anatomy Studio: SURG 242 (Spr)
- Clinical Anatomy: SURG 203 (Aut)
- Embryology: SURG 201 (Aut)
- Head and Neck Anatomy: SURG 101A (Spr)
- Histology: INDE 218 (Aut)
- Medical Etymology: SURG 214 (Aut, Win)
- Operative Anatomy and Techniques: SURG 254 (Win)
- Portraiture and Facial Anatomy for Artists: ARTSTUDI 139, SURG 241 (Win)
- Regional Study of Human Structure: SURG 101 (Win)
- Science of Medicine III-B: INDE 223B (Win)
- Virtual And Real: Clinical Anatomy And Sports Injuries Of The Head And Neck: SURG 100B (Win)
- Virtual and Real: Clinical Anatomy and Sports Injuries of the Limbs and Torso: SURG 100A (Aut)

2017-18

- Anatomy for Artists: ARTSTUDI 243, SURG 243 (Spr)
- Anatomy for Bioengineers: BIOE 51 (Spr)
- Anatomy in Society: SURG 72Q (Win)
- Anatomy of Medical Mysteries: SURG 271 (Spr)
- Art and Anatomy Studio: SURG 242 (Spr)
- Clinical Anatomy: SURG 203 (Aut)
- Clinical Anatomy and Surgical Education Series (CASES): Torso and Limbs: SURG 256 (Spr)
- Embryology: SURG 201 (Aut)
- Head and Neck Anatomy: SURG 101A (Spr)
- Medical Etymology: SURG 214 (Aut, Win)
- Operative Anatomy and Techniques: SURG 254 (Win)
- Portraiture and Facial Anatomy for Artists: ARTSTUDI 139, SURG 241 (Win)
- Principles and Practice of International Humanitarian Surgery: SURG 150, SURG 250 (Spr)
- Regional Study of Human Structure: SURG 101 (Win)

- Virtual and Real: Clinical Anatomy and Sports Injuries: SURG 100 (Aut)

2016-17

- Anatomy for Artists: SURG 243 (Spr)
- Anatomy for Bioengineers: BIOE 51 (Spr)
- Anatomy in Society: SURG 72Q (Win)
- Anatomy of Medical Mysteries: SURG 271 (Spr)
- Art and Anatomy Studio: SURG 242 (Spr)
- Clinical Anatomy: SURG 203A (Aut)
- Clinical Anatomy: SURG 203B (Win)
- Clinical Anatomy and Surgical Education Series (CASES): Torso and Limbs: SURG 256 (Spr)
- Head and Neck Anatomy: SURG 101A (Spr)
- Medical Etymology: SURG 214 (Aut, Win)
- Operative Anatomy and Techniques: SURG 254 (Win)
- Portraiture and Facial Anatomy for Artists: ARTSTUDI 139, SURG 241 (Win)
- Principles and Practice of International Humanitarian Surgery: SURG 150, SURG 250 (Aut)
- Regional Study of Human Structure: SURG 101 (Win)
- Virtual and Real: Clinical Anatomy and Sports Injuries: SURG 100 (Aut)

STANFORD ADVISEES

Postdoctoral Faculty Sponsor

Jamie Johnston

Publications

PUBLICATIONS

- **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 chemodeneration** *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.
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., Srivastava, S.
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