Stanford

Sina Sadeghzadeh

MD Student with Scholarly Concentration in Clinical Research, expected graduation Spring 2027

Bio

BIO

Sina was born in Tehran, Iran and raised in Zanjan, Iran. He came out to Massachusetts to attend Harvard University where he obtained his undergraduate degree cum laude in Neuroscience with a secondary in Economics. In college, Sina conducted wet-lab research under the supervision of Dr. Hugo Bellen, worked as a legal intern in Levy Firestone Muse LLP, and served as a research assistant for Drs. Francis Shen, Steven Levitsky, and Jennifer Hochschild. Sina moved to California (by bike!) to begin medical school at Stanford where he is currently pursuing clinical and basic science research opportunities in the neuroscience domain. Outside of medical school, Sina is an avid cyclist, enjoys going on walks, doing yoga, and learning to salsa dance.

HONORS AND AWARDS

- Sigma Xi Full Member, Stanford University (2025)
- AAN Medical Student Research Scholar, American Academy of Neurology (2024)
- AΩA Carolyn L. Kuckein Student Research Fellow, Alpha Omega Alpha (AΩA) (2024)
- Knight-Hennessy Scholar, Stanford University (2024)
- NREF Medical Student Summer Research Fellow, American Association of Neurological Surgeons (2024)
- The Pars Equality Center/Moghadam Research Scholarship Fund for Iranian Students at Stanford and MIT, The Pars Equality Center (2024)
- Berg Scholar, Stanford University (2023)
- Graduate Public Service Fellow, Stanford University (2023)
- NIH T32 Institutional Research Award Fellow, Stanford University (2023)
- Schweitzer Fellow, Stanford University (2023)
- Klingenstein Fellow, Stanford University (2022)
- Medical Scholars Fellow, Stanford University (2022)
- Sally and Cresap Moore Prize for energy and enthusiasm for interdisciplinary learning, Harvard University (2021)
- John Harvard Scholarship for outstanding academic achievement, Harvard University (2020)
- Harvard Foundation recognition for notable contributions to intercultural and race relations, Harvard University (2019)

MEMBERSHIP ORGANIZATIONS

- American Association of Neurological Surgeons (AANS), Member
- Congress of Neurological Surgeons (CNS), Member
- American Medical Association (AMA), Member

- American Heart Association (AHA), Member

Publications

PUBLICATIONS

- **Normative network-based programming for deep brain stimulation-Concept and case report** *INTERDISCIPLINARY NEUROSURGERY-ADVANCED TECHNIQUES AND CASE MANAGEMENT*
  Sadeghzadeh, S., Reid, B., Nageeb, G., Abikenari, M. A., Lev-Tov, L., Park, J. J., Barbosa, D. A. N., Bhanot, P., McNab, J., Halpern, C. H., Buch, V. P.
  2026; 45

- **Patient risk factors for 30-day unplanned readmission after pediatric neurosurgery: are we improving?** *Journal of neurosurgery. Pediatrics*
  Sadeghzadeh, S., Ghanekar, S. D., Serrato, P., Brown, E. D., Maity, A., DiLuna, M., Elsamadicy, A. A.
  2026: 1-9

- **sEEG-guided responsive neurostimulation to treat neocortical epilepsy: A multicenter retrospective study of the efficacy and safety of depth electrode-mediated neuromodulation.** *Epilepsia open*
  Sadeghzadeh, S., Purger, D. A., Bhanot, P., Johnson, N., Barbosa, D. A., Huang, Y., Park, J. J., Schonfeld, E., Abikenari, M. A., Jain, B., Aronson, J. P., Drees, C., Fisher, et al
  2025

- **'Time is brain': Enhancing stroke knowledge and emergency response readiness in seniors** *HEALTH EDUCATION JOURNAL*
  Sadeghzadeh, S., Adu-Brimpong, J., Abikenari, M. A., Bhatia, A., Harary, P. M., Bhanot, P., Muller, R. K., Escalante, R., Schonfeld, E., Jain, B., Nageeb, G., Wu, A., Hsin, et al
  2025

- **Letter: Arms Race Control Score Standardizes Residency Applicant Publication Assessment.** *Neurosurgery*
  Sadeghzadeh, S.
  2025

- **Association of earlier surgery with improved postoperative language development in children with tuberous sclerosis complex.** *Journal of neurosurgery. Pediatrics*
  Sadeghzadeh, S., Johnstone, T. M., Peters, J. M., Porter, B. E., Ihnen, S. K.
  2024: 1-9

- **Impact of Supine versus Prone Positioning on Segmental Lumbar Lordosis in Patients Undergoing ALIF Followed by PSF: A Comparative Study.** *Journal of clinical medicine*
  Sadeghzadeh, S., Yoo, K. H., Lopez, I., Johnstone, T., Schonfeld, E., Haider, G., Marianayagam, N. J., Stienen, M. N., Veeravagu, A.
  2024; 13 (12)

- **Rates and Predictors of Pain Reduction With Intracranial Stimulation for Intractable Pain Disorders.** *Neurosurgery*
  Huang, Y., Sadeghzadeh, S., Li, A. H., Schonfeld, E., Ramayya, A. G., Buch, V. P.
  2024

- **Emerging Outlook on Personalized Neuromodulation for Depression: Insights from Tractography-Based Targeting.** *Biological psychiatry. Cognitive neuroscience and neuroimaging*
  Sadeghzadeh, S., Swaminathan, A., Bhanot, P., Steeman, S., Xu, A., Shah, V., Purger, D. A., Buch, V. P.
  2024

- **Loss- or Gain-of-Function Mutations in ACOX1 Cause Axonal Loss via Different Mechanisms** *NEURON*
  Chung, H., Wangler, M. F., Marcogliese, P. C., Jo, J., Ravenscroft, T. A., Zuo, Z., Duraine, L., Sadeghzadeh, S., Li-Kroeger, D., Schmidt, R. E., Pestronk, A., Rosenfeld, J. A., Burrage, et al
  2020; 106 (4): 589-+

- **Value of Inpatient Neuromodulation: A National Analysis of Paddle Spinal Cord Stimulation Outcomes.** *Neurosurgery*
  Jain, B., Abikenari, M. A., Sadeghzadeh, S., Shah, A., Yoo, K. H., Azad, T. D., Hani, U., Ratliff, J. K., Ramayya, A. G., Veeravagu, A.
  2026

- **Assessing combined effects of RAI, GNRI, and Anemia on morbidity and mortality in elderly patients after subdural hematoma evacuation.** *Clinical neurology and neurosurgery*

Ghanekar, S. D., Serrato, P., Brown, E. D., Sadeghzadeh, S., Maity, A., Khalid, S. I., DiLuna, M., Elsamadicy, A. A.
2026; 263: 109340

- **ConvNeXt-Driven Detection of Alzheimer's Disease: A Benchmark Study on Expert-Annotated AlzaSet MRI Dataset Across Anatomical Planes.** *Diagnostics (Basel, Switzerland)*
  Basereh, M., Abikenari, M. A., Sadeghzadeh, S., Dunn, T., Freichel, R., Siddarth, P., Ghahremani, D., Lavretsky, H., Buch, V. P.
  2025; 15 (23)

- **Comparing morbidity and mortality in adult patients with acute traumatic cervical spinal cord injury in 2013-2017 and 2018-2022: a retrospective 10-year national trend analysis.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
  Elsamadicy, A. A., Serrato, P., Belkasim, S., Sadeghzadeh, S., Ghanekar, S. D., Khalid, S. I., Lo, S. L., Sciubba, D. M.
  2025; 138: 111382

- **Trends in short-term and delayed unplanned readmission in patients with adult spinal deformity undergoing posterior spinal fusion.** *Neurosurgical focus*
  Elsamadicy, A. A., Sayeed, S., Sadeghzadeh, S., Serrato, P., Ghanekar, S. D., Lo, S. L., Sciubba, D. M.
  2025; 58 (6): E16

- **Impact of preoperative nutritional status on morbidity and mortality in elderly patients undergoing spine surgery for metastatic spinal tumors: a role for the Geriatric Nutritional Risk Index.** *Journal of neurosurgery. Spine*
  Elsamadicy, A. A., Serrato, P., Sadeghzadeh, S., Ghanekar, S., Khalid, S. I., Lo, S. L., Sciubba, D. M.
  2025: 1-10

- **Racial/ethnic disparities on resource utilization and outcomes for patients undergoing spine surgery: A NSQIP analysis of 402,765 patients.** *Clinical neurology and neurosurgery*
  Elsamadicy, A. A., Serrato, P., Ghanekar, S. D., Sadeghzadeh, S., Hansen, J., Mitre, L. P., Lo, S. L., Sciubba, D. M.
  2025; 254: 108931

- **Assessing Morbidity and Mortality in Adult Patients With Acute Traumatic Cervical Spinal Cord Injury Using a Modified Risk Analysis Index.** *Neurosurgery*
  Elsamadicy, A. A., Serrato, P., Belkasim, S., Sayeed, S., Hengartner, A. C., Sadeghzadeh, S., Ghanekar, S., Pennington, Z., Khalid, S. I., Lo, S. L., Sciubba, D. M.
  2025

- **Clinical outcomes and patient-reported outcome measures among patients undergoing posterior lumbar fusion procedures with varying insurance payor status: a propensity score-matching study.** *Journal of neurosurgery. Spine*
  Shah, A., Schonfeld, E., Haider, G., Marianayagam, N. J., Sadeghzadeh, S., Stienen, M. N., Veeravagu, A.
  2025: 1-9

- **Racial/Ethnic Associations with Morbidity and Mortality in Adults with Acute Traumatic Cervical Spinal Cord Injury.** *Spine*
  Elsamadicy, A. A., Belkasim, S., Serrato, P., Sadeghzadeh, S., Ghanekar, S. D., Khalid, S. I., Lo, S. L., Sciubba, D. M.
  2025

- **Association of Safety-Net hospital status and hospital outcomes following ACDF or PCDF for CSM.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
  Elsamadicy, A. A., Sayeed, S., Sherman, J. J., Craft, S., Reeves, B. C., Hengartner, A. C., Ghanekar, S. D., Sadeghzadeh, S., Larry Lo, S., Sciubba, D. M.
  2024; 133: 111001

- **Analysis of short- and delayed unplanned readmission rates after anterior discectomy and fusion for CSM.** *Journal of clinical neuroscience : official journal of the Neurosurgical Society of Australasia*
  Elsamadicy, A. A., Sayeed, S., Sadeghzadeh, S., Hengartner, A. C., Ghanekar, S. D., Serrato, P., Khalid, S. I., Lo, S. L., Sciubba, D. M.
  2024; 133: 110993

- **Trends in Sacroiliac Joint Fusion Costs and Utilization in the Privately Insured Population.** *Global spine journal*
  Johnstone, T., Schonfeld, E., Sadeghzadeh, S., Marianayagam, N. J., Yoo, K. H., Ratliff, J. K., Veeravagu, A.
  2024: 21925682241309302

- **Impact of preoperative nutritional status on morbidity and mortality in elderly patients undergoing subdural hematoma evacuation: the role of the Geriatric Nutritional Risk Index.** *Journal of neurosurgery*
  Serrato, P., Craft, S., Sayeed, S., Hengartner, A. C., Belkasim, S., Sadeghzadeh, S., DiLuna, M. L., Elsamadicy, A. A.

2024: 1-11

- **Assessing a revised-risk analysis index for morbidity and mortality after spine surgery for metastatic spinal tumors.** *Journal of neuro-oncology*
  Elsamadicy, A. A., Serrato, P., Sadeghzadeh, S., Sayeed, S., Hengartner, A. C., Khalid, S. I., Lo, S. L., Shin, J. H., Mendel, E., Sciubba, D. M.
  2024
- **Utility of Risk Analysis Index for Assessing Morbidity in Patients Undergoing Posterior Spinal Fusion for Adult Spinal Deformity.** *World neurosurgery*
  Elsamadicy, A. A., Sadeghzadeh, S., Serrato, P., Sayeed, S., Hengartner, A. C., Belkasim, S., Khalid, S. I., Lo, S. L., Sciubba, D. M.
  2024
- **Implications of surgical infection on surgical and hospital outcomes after spine surgery: A NSQIP study of 410,930 patients.** *Clinical neurology and neurosurgery*
  Elsamadicy, A. A., Serrato, P., Sadeghzadeh, S., Dietz, N., Lo, S. L., Sciubba, D. M.
  2024; 245: 108505
- **Regional variations in morbidity and mortality among neonates with intraventricular hemorrhage: a national database analysis.** *Child's nervous system : ChNS : official journal of the International Society for Pediatric Neurosurgery*
  Sayeed, S., Theriault, B. C., Hengartner, A. C., Serrato, P., Sadeghzadeh, S., Belkasim, S., Ahsan, N., Elsamadicy, E. A., DiLuna, M., Elsamadicy, A. A.
  2024
- **Insurance Disparities in Patient Outcomes and Healthcare Resource Utilization Following Neonatal Intraventricular Hemorrhage.** *World neurosurgery*
  Sayeed, S., Theriault, B. C., Hengartner, A. C., Ahsan, N., Sadeghzadeh, S., Elsamadicy, E. A., DiLuna, M., Elsamadicy, A. A.
  2024
- **Sociodemographic Disparities and Postoperative Outcomes Following Cranial Vault Remodeling for Craniosynostosis: Analysis of the 2012 to 2021 NSQIP-Pediatric Database.** *The Journal of craniofacial surgery*
  Hengartner, A. C., Serrato, P., Sayeed, S., Sadeghzadeh, S., Prassinos, A. J., Alperovich, M., DiLuna, M., Elsamadicy, A. A.
  2024
- **Reduced racial disparities among newborns with intraventricular hemorrhage.** *Child's nervous system : ChNS : official journal of the International Society for Pediatric Neurosurgery*
  Sayeed, S., Reeves, B. C., Theriault, B. C., Hengartner, A. C., Ahsan, N., Sadeghzadeh, S., Elsamadicy, E. A., DiLuna, M., Elsamadicy, A. A.
  2024
- **Evaluating Computer Vision, Large Language, and Genome-Wide Association Models in a Limited Sized Patient Cohort for Pre-Operative Risk Stratification in Adult Spinal Deformity Surgery.** *Journal of clinical medicine*
  Schonfeld, E., Pant, A., Shah, A., Sadeghzadeh, S., Pangal, D., Rodrigues, A., Yoo, K., Marianayagam, N., Haider, G., Veeravagu, A.
  2024; 13 (3)
- **Type II Odontoid Fractures in the Elderly Presenting to the Emergency Department: An Assessment of Factors Affecting In-Hospital Mortality and Discharge to Skilled Nursing Facilities.** *The spine journal : official journal of the North American Spine Society*
  Johnstone, T., Shah, V., Schonfeld, E., Sadeghzadeh, S., Haider, G., Stienen, M., Marianayagam, N. J., Veeravagu, A.
  2023
- **Implications of Frailty on Post-Operative Healthcare Resource Utilization in Ankylosing Spondylitis Patients Undergoing Spine Surgery for Spinal Fractures.** *World neurosurgery*
  Elsamadicy, A. A., Sayeed, S., Sadeghzadeh, S., Reeves, B. C., Sherman, J. J., Craft, S., Serrato, P., Larry Lo, S., Sciubba, D. M.
  2023
- **The relation between pica and iron deficiency in children in Zanjan, Islamic Republic of Iran: a case-control study** *EASTERN MEDITERRANEAN HEALTH JOURNAL*
  Sadeghzadeh, M., Khoshnevisasl, P., Sadeghzadeh, S.
  2017; 23 (6): 404-407