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EMPLOYMENT

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO. Spine Surgery Fellow, July 2025-Present

- Advanced training in deformity, complex, and minimally invasive spine surgery
- Fellowship Directors: Praveen Mummaneni MD MBA & Lee Tan MD

UNIVERSITY OF SOUTH FLORIDA, TAMPA, FL. Functional Neurosurgery Fellowship, Jan 2023-June 2023

- Training in stereotactic & functional neurosurgery, movement disorders, epilepsy, & peripheral nerve
- Fellowship Director: Yarema Bezchlibnyk MD PhD

SAN DIEGO SPINE FOUNDATION, SAN DIEGO, CA. Spine Surgery Fellowship, July 2022-Dec 2022.

- Advanced training in deformity, complex, and minimally invasive spine surgery
- Fellowship Directors: Gregory Mundis MD & Robert Eastlack MD

UNIVERSITY OF SOUTH FLORIDA, TAMPA, FL. Resident in Neurosurgery, July 2018-June 2025

- Fernando Vale, Golden Apple Award (Resident Teaching Award)
- Completion of Certifying Course in Microvascular Surgery (7th resident in program history)
- Journal of Neurosurgery E2M Reviewer, 2-year term
- Recognized by neurosurgery nursing staff as top resident for excellence in patient care
- AANS Young Neurosurgeons Committee (4 inductees from 50+ nominees)
- Passed American Board of Neurological Surgery primary examination (“written boards”)

EDUCATION

HARVARD MEDICAL SCHOOL, BOSTON, MA. MD *cum laude*, 2018.

- Medical College Admission Test (MCAT) 99.9th percentile, Top 80 score in US
- NBME Subject Exam in Medicine: 97th percentile, Top score at Harvard Medical School
- NBME Subject Exam in Surgery: 97th percentile
- 1st Place, Harvard Medical School Research Day, 2014 (Leon Eisenberg Prize)
- 1st Place, Massachusetts Medical Society Research Symposium, 2014
- Harvard Medical Student Review: Co-Founder and Co-Editor in Chief
- Secured \$20,000 grant and built a text-based program to reduce patient no-shows for medical appointments.

HARVARD BUSINESS SCHOOL, BOSTON, MA. MBA *with distinction*, 2018.

- Graduate Management Admissions Test (GMAT) 99th percentile.
- 2016 MedTech Boston 40 Under 40 Healthcare Innovators
- 1st Place, Massachusetts Institute of Technology (MIT) \$100K LAUNCH Competition. 500+ entrants.
- 1st Place, HBS New Venture Competition. 70+ entrants.
- 1st Place & Audience Choice Award, MIT \$100K Accelerate Competition. 100+ entrants.
- 1st Place, SPARK Pitch Competition at HBS Entrepreneurship Conference 2015.
- 1st Place & AARP Prize, Johns Hopkins University Business Plan Competition. 100+ entrants.
- 1st Place, Mass Medical Device Development Center \$100K New Venture Competition. 100+ entrants.
- Janus Foundation & Perkins Investment Prize, Global Social Venture Competition. 800+ entrants.
- MIT Global Ideas \$10K Grant Winner.
- Audience Choice Award, MIT Sloan Healthcare Innovation Competition. 100+ entrants.
- Finalist, OneStart International Healthcare Business Plan Competition: 10 teams from 750 entrants.

UNIVERSITY OF OKLAHOMA, NORMAN, OK. BS, *summa cum laude*, Medical Sciences, 2012.

- GPA 4.0. Gold Letzeiser Medal (#1 Senior). Top 12 Freshman, Sophomore & Junior.
- National Merit Scholar. Oklahoma All-State Scholar.

COMMUNITY SERVICE

- Global Spine Outreach Mission trip to Cali, Colombia
- Harvard Medical School, Vanderbilt Hall, Resident Advisor.
- The Oklahoma Group: Provided *pro bono* consulting to a local nonprofit.
- Global Medical Brigades at OU: Founding Member of a medical volunteering group traveling to Honduras.
- Health for Friends Free Clinic, Norman, OK. Performed medical intake, triage, and administrative tasks.

PERSONAL

- Eagle Scout, 3 eagle palms, & Order of the Arrow; enjoy playing guitar & piano; Thunder basketball fan.

PEER-REVIEWED PUBLICATIONS

Yee, T. J., Ambati, V. S., **Kumar, J.**, Atluri, S., Ravikumar, C., Patel, A., DiGiorgio, A., Kim, P. K., Asher, A. L., Potts, E. A., Bisson, E. F., Knightly, J. J., Fu, K. G., Virk, M. S., Foley, K. T., Park, P., Yen, C., Bydon, M., Chou, D., Chan, A. K., Shaffrey, C. I., Slotkin, J. R., Wang, M. Y., Haid, R. W., Jr., Glassman, S. D., & Mummaneni, P. V. (2026). What factors predict return to work after surgery for grade 1 lumbar spondylolisthesis? A 5-year Spine CORE™ analysis of QOD data. *Neurosurgical Focus*, 60(5), E21. <https://doi.org/10.3171/2025.12.FOCUS25961>

Alan, N., Dada, A., **Kumar, J.**, Le, V. P., Turner, J. D., Uribe, J. S., Asher, A. L., Kim, P. K., Fu, K. G., Virk, M. S., Shaffrey, C. I., Gottfried, O. N., Potts, E. A., Alentado, V. J., Bydon, M., Park, P., Wang, M. Y., Glassman, S. D., Djurasovic, M., Foley, K. T., Upadhyaya, C. D., Yee, T. J., Chan, A. K., Chou, D., Yen, C., Bisson, E. F., Haid, R., Jr., & Mummaneni, P. V. (2026). Is surgery associated with improvement of sleep disturbance in patients with grade 2 lumbar spondylolisthesis? Insights from the Spine CORE™ analysis of QOD data. *Neurosurgical Focus*, 60(5), E20. <https://doi.org/10.3171/2025.12.FOCUS25957>

Alan, N., Park, P., Dada, A., **Kumar, J.**, Le, V. P., Turner, J. D., Uribe, J. S., Asher, A. L., Kim, P. K., Fu, K. G., Virk, M. S., Shaffrey, C. I., Gottfried, O. N., Potts, E. A., Bydon, M., Wang, M. Y., Glassman, S. D., Foley, K. T., Upadhyaya, C. D., Yee, T. J., Chan, A. K., Chou, D., Yen, C., Bisson, E. F., Haid, R. W., Jr., & Mummaneni, P. V. (2026). What determines patient satisfaction after surgery for grade 2 lumbar spondylolisthesis? A Spine CORE™ analysis of QOD data. *Neurosurgical Focus*, 60(5), E19. <https://doi.org/10.3171/2025.12.FOCUS25960>

Alan, N., **Kumar, J.**, Dada, A., Elguindy, M., Bisson, E. F., Bydon, M., Asher, A. L., Kim, P. K., Potts, E. A., Foley, K. T., Alentado, V. J., Wang, M. Y., Fu, K., Virk, M. S., Shaffrey, C. I., Gottfried, O. N., Knightly, J. J., Meyer, S., Park, P., Upadhyaya, C. D., Yen, C., Chan, A. K., Tumialán, L. M., Chou, D., Uribe, J. S., Turner, J. D., Yee, T. J., Haid, R. W., Jr., & Mummaneni, P. V. (2026). Is there discordance between achieving the minimal clinically important difference in Neck Disability Index score and patient satisfaction after surgery for cervical spondylotic myelopathy? A Spine CORE™ 5-year analysis of QOD data. *Neurosurgical Focus*, 60(5), E13. <https://doi.org/10.3171/2025.12.FOCUS25946>

Dada, A., Buckley, N., Saggi, S., DiGiorgio, A., **Kumar, J.**, Upadhyaya, C. D., Bisson, E. F., Bydon, M., Asher, A. L., Kim, P. K., Potts, E. A., Alentado, V. J., Foley, K. T., Wang, M. Y., Fu, K., Virk, M. S., Shaffrey, C. I., Gottfried, O. N., Knightly, J. J., Meyer, S., Park, P., Yen, C., Chan, A. K., Tumialán, L. M., Chou, D., Uribe, J. S., Turner, J. D., Yee, T. J., Haid, R. W., Jr., & Mummaneni, P. V. (2026). Do patients with government insurance payors experience delayed access to surgical care for cervical spondylotic myelopathy? A Spine CORE™ analysis of QOD data. *Neurosurgical Focus*, 60(5), E9. <https://doi.org/10.3171/2025.12.FOCUS25951>

Rostami M, Bagherzadeh S, Soto Rubio D, Saleh D, **Kumar J**, Kim P, Kopparapu S, Ryan C, Alikhani P. Impact of Preoperative Marijuana Use on Functional Recovery and Complications After Spinopelvic Fusion in Adult Spinal Deformity. *Neurosurg Pract*. 2026 Apr 1;7(2):e000218. doi: 10.1227/neuprac.0000000000000218. PMID: 41982324;

Bagherzadeh S, Kopparapu S, Roohollahi F, **Kumar J**, Bauer S, Neal E, Noureldine MHA, Pressman E, Alikhani P, Rostami M. Normative segmental cervical lordosis distribution and sagittal vertical axis variations with T1 slope: Defining the role of the C2-C5 segment. *J Craniovertebr Junction Spine*. 2026 Mar-Apr;17(2):165-173. doi: 10.4103/jcvjs.jcvjs_11_26. Epub 2026 Mar 18. PMID: 41929743; PMCID: PMC13042538.

Salmanian S, **Kumar JI**, Noureldine MHA, Naffii Y, Yeganeh KJ, Greenberg MS, Rostami M, Alikhani P. Beyond stabilization: barriers and opportunities for sagittal alignment correction with transforaminal lumbar interbody fusion - a single tertiary center retrospective study. *Br J Neurosurg*. 2026 Mar 30;1-8. doi: 10.1080/02688697.2026.2645891. Epub ahead of print. PMID: 41906722.

Schimmel S, Chose C, Rivera R, Clampitt B, Salmanian S, Johansen PM, Pradhan A, **Kumar J**, Soto Rubio D, Rostami M, Haas A, Hayman E, Greenberg M, Baerga Saldana N, Carballo Cuello C, Alikhani P. Brace yourself: routine postoperative bracing after adult spinal deformity surgery offers no clinical benefit and may increase harm. *J Spine Surg*. 2025 Dec 31;11(4):828-839. doi: 10.21037/jss-25-121.

Soto Rubio DT, Carballo Cuello C, Yeganeh KJ, Salmanian S, Clampitt B, Schimmel S, Monsour M, Sabahi M, Saleh D, Rostami M, **Kumar JI**, Greenberg M, Alikhani P. Optimizing Spinal Realignment: A Comparative Analysis of Correction and Complications of Osteotomy Techniques in Adult Spinal Deformity. *Int J Spine Surg* 2025 Nov 5:8810.doi:10.14444/8810.

Salmanian S, **Kumar J**, Kopparapu S, Saleh D, Rubio DS, Greenberg M, Alikhani P, Rostami M. Perioperative Safety and Alignment Outcomes in Minimally Invasive versus Open Transforaminal Lumbar Interbody Fusion: A Retrospective Cohort Study. *Surgical Neurology International* 2025 Oct 10;16:427. doi: 10.25259/SNI_926_2025.

Kumar JI, Carballo C, Piper K, Chinae A, Flores-Milan G, Hidalgo AV, Soto D, Greenberg MS, Alikhani P. The Buttress Technique, A New Maneuver to Prevent Subsidence After Thoracic and Lumbar Corpectomy. *Neurosurg Pract.* 2025 Oct 16;6(4):e000179. doi: 10.1227/neuprac.0000000000000179.

Salmanian S, Schimmel S, Clampitt B, Toothman M, Allen P, Chose C, Carballo C, Soto-Rubio D, **Kumar J**, Alikhani P, Kim P. Enhanced Visualization, Reduced Burden: Endoscopic versus Tubular Spine Surgery for Lumbar Stenosis. *World Neurosurg.* 2025 Aug;200:124186. doi: 10.1016/j.wneu.2025.124186.

Cuello CC, **Kumar J**, Flores-Milan G, Rubio DS, Clampitt B, Alikhani P. Postmyelography Acute Paraplegia in Patients With Spinal Cord Stimulators: Case Series and Review of Literature. *Int J Spine Surg.* 2025 Jun 12;19(3):312-315. doi: 10.14444/8760.

Bagherzadeh S, Rostami M, Jafari M, Roohollahi F, Kopparapu S, Johansen P, Rainone G, **Kumar J**, Greenberg M, Alikhani, Non-Syndromic Osteochondroma of Lumbar Spine: A Systematic Review of Management and Outcomes with Illustrative Case Asian Journal of Neurosurgery; DOI: 10.1055/s-0045-1814148

Salmanian S, **Kumar J**, Cuello CC, Rubio DS, Greenberg M, Hayman E, Rostami M, Alikhani P. Striking a Balance: The Role of Alignment, Surgical Techniques, and Multi-Rod Constructs in Reducing Rate of Rod Fractures in Adult Spinal Deformity Surgery *Global Spine Journal* 2025;0(0). doi:10.1177/21925682251386772

Schimmel S, Monsour M, Yeganeh K, Salmanian S, Chose C, Pradhan A, Soto-Rubio DT, Cuello CC, **Kumar JI**, Alikhani P. From Incision to Prescription: Unraveling Pain and Opioid Use in Adult Spinal Deformity Surgery. *Int J Spine Surg.* 2025 Sep 12:8791. doi: 10.14444/8791. Epub ahead of print. PMID: 40940166.

Carballo Cuello C, Flores-Milan G, Screven R, Pressman E, **Kumar JI**, Clampitt B, Noureldine MHA, Hidalgo AV, Sabahi M, Hayman E, Greenberg M, Alikhani P. “Less is more: complication rates and outcome measures of intradiscal osteotomy versus pedicle subtraction osteotomy in adult spinal deformity.” *Journal of neurosurgery. Spine* vol. 43,3 313-323. 13 Jun. 2025, doi:10.3171/2025.2.SPINE241128

***Cover Article**

Chung, RJ, Screven R, Soto-Rubio, DT, Neal, EG, **Kumar JI**, Hayman E Kim P. Endoscopic percutaneous extraction of a retained bullet fragment in the lumbar spine for lead toxicity management: illustrative case. *J Neurosurg Case Lessons.* 2025;9(21):CASE2538. Published 2025 May 26. doi:10.3171/CASE2538

Piper K, **Kumar JI**, Smith D, Freeman T, Vale FL, Greenberg M, Balis G, van Loveren H. The origins of neurosurgery at the University of South Florida in Tampa Bay. *J Neurosurg.* 2025 May 23:1-7. doi: 10.3171/2025.1.JNS242646. Epub ahead of print. PMID: 40408872.

Kittur K, **Kumar JI**, Salomon K, et al. Progression of Intracranial Hemorrhage Comparing Unfractionated Heparin Versus Low Molecular Weight Heparin for Chemoprophylaxis in Traumatic Brain Injury. *World Neurosurg.* Apr 14 2025;123982. doi:10.1016/j.wneu.2025.123982

Eastlack RK, **Kumar JI**, Mundis GM, Nunley PD, Uribe JS, Park PJ, Tran S, Wang MY, Than KD, Okonkwo DO, Kanter AS, Anand N, Fessler RG, Fu KG, Chou D, Mummaneni PV. The impact of lower thoracic versus upper lumbar upper instrumented vertebra in minimally invasive correction of adult spinal deformity. *J Neurosurg Spine.* Jan 10 2025;1-8. doi:10.3171/2024.8.Spine231335

Pressman E, Monsour M, Goldman H, **Kumar JI**, Noureldine MHA, Alikhani P. Anterior Column Release: With Great Lordosis Comes Great Risk of Complications-A Case Series. *Clin Spine Surg.* Aug 29 2024;doi:10.1097/bsd.0000000000001664

Shirazi C, Ochoa MA, Malone H, Price A, **Kumar JI**, Akbarnia BA, Mundis GM, Sing D, Eastlack RK. Can titanium surface technology reduce cost for biologics in anterior lumbar interbody fusion? *J Neurosurg Spine.* Nov 1 2024;41(5):589-595. doi:10.3171/2024.5.Spine231323

Piper K, **Kumar JI**, Domino J, Tuchek C, Vogelbaum MA. Consensus review on strategies to improve delivery across the blood-brain barrier including focused ultrasound. *Neuro Oncol.* Sep 5 2024;26(9):1545-1556. doi:10.1093/neuonc/noae087

Piper KF, Flores-Milan G, Cruz AM, **Kumar JI**, Loveren HV. A Nod for Meckel: A Novel Surgical Position Utilizing Meckel's Cave Anatomy for Percutaneous Glycerol Rhizotomy in Trigeminal Neuralgia. *J Neurol Surg B Skull Base.* Apr 2024;85(2):156-160. doi:10.1055/s-0043-1764323

Pressman E, Monsour M, Liaw D, Screven RD, **Kumar JI**, Hidalgo AV, Haas AM, Hayman EG, Alikhani P. Three-column osteotomy in long constructs has lower rates of proximal junctional kyphosis and better restoration of lumbar lordosis than anterior column realignment. *Eur Spine J.* Feb 2024;33(2):590-598. doi:10.1007/s00586-023-08115-3

Lockard GM, Piper K, **Kumar JI**, Riddle N, Flouty O. Improvement in Hearing Loss Following Posterior Fossa Arachnoid Cyst Fenestration: A Case Study. *Cureus.* Jan 2024;16(1):e51750. doi:10.7759/cureus.51750

Kumar JI, Wasserman J, Heller RS, Agazzi S. Spontaneous resolution of cerebral arteriovenous malformation after liver transplant: illustrative case. *Br J Neurosurg.* Dec 2024;38(6):1398-1401. doi:10.1080/02688697.2021.2016621

Kumar JI, Jallo GI, Shimony N. Knowledge Review of Spinal Deformity and the Need for Fusion and Fixation following Treatment for Spinal Tumors among the Pediatric Age Group. *Pediatr Neurosurg.* 2023;58(5):281-289. doi:10.1159/000531984

Noureldine MHA, Farooq J, **Kumar JI**, Pressman E, Coughlin E, Mhaskar R, Alikhani P. Improved Outcomes with Concurrent Instrumentation and Fusion of the Sacroiliac Joint in Patients with Long Lumbosacral Constructs. *Global Spine J.* Sep 2023;13(7):2001-2006. doi:10.1177/21925682211069095

Ren Z, Huo X, **Kumar JI**, Jadhav AP, Costalat V, Fiehler J, Bendszus M, Yoshimura S, Ma G, Tong X, Zhang X, Zaidat OO, Jovin TG, Liebeskind DS, Pereira VM, Miao Z. Review of Current Large Core Volume Stroke Thrombectomy Clinical Trials: Controversies and Progress. *Stroke: Vascular and Interventional Neurology.* 2022;

Ren Z, Huo X, Ma G, Tong X, **Kumar J**, Pressman E, Chen W, Yuan G, Wang AY-C, Wei M, Zhang J, Nan G, Zhu Q, Liu Y, Zhang L, Song W, Zhou Z, Wang G, Li T, Luo J, Wang E, Ling W, Ju D, Song C, Liu S-D, Gui L, Li T, Liu Y, Zhao J, Guo Z, Zheng H, Sun Y, Xu N, Wang YJ, Miao Z. Selection criteria for large core trials: rationale for the ANGEL-ASPECT study design. *Journal of NeuroInterventional Surgery.* 2022;14(2):107-110. doi:10.1136/neurintsurg-2021-017798

Tian Z, Liu J, **Kumar J**, Li W, Zhang Y, Zhang Y, Wang K, Wang S, Ren Z, Yang X. Significant flow velocity reduction at the intracranial aneurysm neck after endovascular treatment leads to favourable angiographic outcome: a prospective study. *Stroke Vasc Neurol.* Sep 2021;6(3):366-375. doi:10.1136/svn-2020-000413

Pressman E, Hasegawa H, Farooq J, Cohen-Cohen S, Noureldine MHA, **Kumar JI**, Chen L, Mhaskar R, van Loveren H, Van Gompel JJ, Agazzi S. Teflon versus Ivalon in Microvascular Decompression for Trigeminal Neuralgia: A 2-Center 10-Year Comparison. *World Neurosurg.* Feb 2021;146:e822-e828. doi:10.1016/j.wneu.2020.11.027

Noureldine MHA, Pressman E, **Kumar JI**, Zavadskiy G, Tran ND, Greenberg MS, Alikhani P. Sacroiliac joint arthropathy in adult spinal deformity patients with long constructs to the pelvis. *Clin Neurol Neurosurg.* Apr 2021;203:106593. doi:10.1016/j.clineuro.2021.106593

Joud H, Noureldine MHA, Peto I, **Kumar JI**, Bajric J, Agazzi S. Subarachnoid Hemorrhage and Internal Carotid Artery Dissection and Occlusion Following Self-Enucleation. *Asian J Neurosurg.* Oct-Dec 2020;15(4):1050-1054. doi:10.4103/ajns.AJNS_183_20

Flores G, **Kumar JI**, Pressman E, Sack J, Alikhani P. Spontaneous Brainstem Hemorrhagic Stroke in the Setting of Novel Coronavirus Disease 2019 - A Case Report. *Cureus.* Oct 5 2020;12(10):e10809. doi:10.7759/cureus.10809

Pressman E, Noureldine MHA, **Kumar JI**, Krafft PR, Mantei B, Greenberg MS, Agazzi S, van Loveren H, Alikhani P. The Return Back to Typical Practice from the "Battle Plan" of the Coronavirus Disease 2019 (COVID-19) Pandemic: A Comparative Study. *World Neurosurg.* Oct 2020;142:e481-e486. doi:10.1016/j.wneu.2020.07.083

Kumar JI, Ma S, Agarwalla P, Shimony N, Liu SS. Anatomic Alert: Spinal accessory nerve traversing a fenestrated internal jugular vein. *Br J Neurosurg.* Dec 2019;33(6):673-674. doi:10.1080/02688697.2019.1661969

Wangqin R, Krafft PR, Piper K, **Kumar J**, Xu K, Mokin M, Ren Z. Management of De Novo Carotid Stenosis and Postintervention Restenosis-Carotid Endarterectomy Versus Carotid Artery Stenting-a Review of Literature. *Transl Stroke Res.* Oct 2019;10(5):460-474. doi:10.1007/s12975-019-00693-z

Yanamadala V, Rozman PA, **Kumar JI**, Schwab JH, Lee SG, Hornicek FJ, Curry WT, Jr. Vascularized Fibular Strut Autografts in Spinal Reconstruction after Resection of Vertebral Chordoma or Chondrosarcoma: A Retrospective Series. *Neurosurgery*. Jul 1 2017;81(1):156-164. doi:10.1093/neuros/nyw057

Venteicher AS*, **Kumar JI***, Murphy EA, Gray ST, Holbrook EH, Curry WT. Phantosmia and Dysgeusia following Endoscopic Transcribriform Approaches to Olfactory Groove Meningiomas. *J Neurol Surg B Skull Base*. Jun 2017;78(3):245-250. doi:10.1055/s-0036-1597925

*equal contributors

Stapleton CJ*, **Kumar JI***, Walcott BP, Torok CM, Agarwalla PK, Koch MJ, Patel AB. The effect of basilar artery bifurcation angle on rates of initial occlusion, recanalization, and retreatment of basilar artery apex aneurysms following coil embolization. *Interv Neuroradiol*. Aug 2016;22(4):389-95. doi:10.1177/1591019916633243

*equal contributors

Yanamadala V, Koffie RM, Shankar GM, **Kumar JI**, Buchlak QD, Puthenpura V, Frosch MP, Gudewicz TM, Borges LF, Shin JH. Spinal cord glioblastoma: 25years of experience from a single institution. *J Clin Neurosci*. May 2016;27:138-41. doi:10.1016/j.jocn.2015.11.011

Liu K, Kurien BT, Zimmerman SL, Kaufman KM, Taft DH, Kottyan LC, Lazaro S, Weaver CA, Ice JA, Adler AJ, Chodosh J, Radfar L, Rasmussen A, Stone DU, Lewis DM, Li S, Koelsch KA, Igoe A, Talsania M, **Kumar J**, Maier-Moore JS, Harris VM, Gopalakrishnan R, Jonsson R, Lessard JA, Lu X, Gottenberg JE, Anaya JM, Cunningham-Graham DS, Huang AJW, Brennan MT, Hughes P, Illei GG, Miceli-Richard C, Keystone EC, Bykerk VP, Hirschfield G, Xie G, Ng WF, Nordmark G, Eriksson P, Omdal R, Rhodus NL, Rischmueller M, Rohrer M, Segal BM, Vyse TJ, Wahren-Herlenius M, Witte T, Pons-Estel B, Alarcon-Riquelme ME, Guthridge JM, James JA, Lessard CJ, Kelly JA, Thompson SD, Gaffney PM, Montgomery CG, Edberg JC, Kimberly RP, Alarcón GS, Langefeld CL, Gilkeson GS, Kamen DL, Tsao BP, McCune WJ, Salmon JE, Merrill JT, Weisman MH, Wallace DJ, Utset TO, Bottinger EP, Amos CI, Siminovitch KA, Mariette X, Sivils KL, Harley JB, Scofield RH. X Chromosome Dose and Sex Bias in Autoimmune Diseases: Increased Prevalence of 47,XXX in Systemic Lupus Erythematosus and Sjögren's Syndrome. *Arthritis Rheumatol*. May 2016;68(5):1290-1300. doi:10.1002/art.39560

Kumar JI, Yanamadala V, Shin JH. Operative Management of Spinal Injuries. *Current Trauma Reports*. 2015/09/01 2015;1(3):193-202. doi:10.1007/s40719-015-0024-9

Kumar JI, Yanamadala V, Shin JH. Intramedullary spinal metastasis of a carcinoid tumor. *J Clin Neurosci*. Dec 2015;22(12):1990-1. doi:10.1016/j.jocn.2015.07.002

Yanamadala V, Walcott BP, Fecci PE, Rozman P, **Kumar JI**, Nahed BV, Swearingen B. Reversal of warfarin associated coagulopathy with 4-factor prothrombin complex concentrate in traumatic brain injury and intracranial hemorrhage. *J Clin Neurosci*. Nov 2014;21(11):1881-4. doi:10.1016/j.jocn.2014.05.001

Kumar JI, Anthony M, Crawford SA, Arky RA, Bitton A, Splinter GL. A comparison of Tier 1 and Tier 3 medical homes under Oklahoma Medicaid program. *J Okla State Med Assoc*. Apr 2014;107(4):157-61.

BOOK CHAPTERS AND OTHER PUBLICATIONS

Stone L, **Kumar JI**, & Eastlack R. (2024). **16 Minimally Invasive Lateral Approach Related Complications**. In *Complications in Orthopaedics: Spine Surgery*. Elsevier.

Kumar JI, Piper K, Zesiewicz T, Smith DA, Flouty O, Bezchlibnyk YB. **Treatment of movement disorders with neuromodulation**. *Practical Neurology*. (2023 Sept).

ORAL PRESENTATIONS

Taiwan Spine Society. 2026. Taipei, Taiwan.

Kumar JI, Clampitt B, Kittur K, Chose C, El Sayed B, Salmanian S, Alikhani P. Sagittal Alignment Showdown: SRS-Schwab vs Age-Adjusted vs T4-L1 Hip Axis – Which is Superior?

CNS Spine Complications Course. 2026. Park City, UT.

Jay Kumar, Praveen Mummaneni. A Case of Recurrent Thoracic Ependymoma.

International Conference. 2025. Virtual

Praveen Mummaneni, Alexa Semonche, Ival H El-Sayed, Anthony M. DiGiorgio, Jay Kumar. Transoral Transmandibular Approach for Anterior Cervical Corpectomy: Technical Note.

International Spine Deformity Symposium. 2025. New York, NY.

Praveen Mummaneni, Jay Kumar. Short Segment Degenerative Deformity Correction in the Lumbar & TL Spine: Introduction to the Problem.

Congress of Neurological Surgeons. 2025, Los Angeles, CA.

Praveen Mummaneni, Jay Kumar. Spinal Cord Shortening for Recurrent Tethered Cord. CNS Operative Video.

Praveen Mummaneni, Jay Kumar. Adult Spinal Deformity Case Presentation. Scoliosis Research Society Special Session.

UCSF Pediatric and Adult Spine Surgery Course. 2025. Honolulu, Hawaii.

Presented on behalf of Vardhaan S. Ambati, Alexander F. Haddad, Marc Prablek, Nathan Han, Youssef Sibih, Abraham Dada, Rithvik Ramesh, Christopher Ames, Alekos Theologis, Aaron Clark, Sig Berven, Vedat Deviren, Lee Tan, Dean Chou, Praveen V. Mummaneni, Nima Alan. Does preoperative embolization help to lower surgical blood loss and transfusion rates in nonvascular metastatic spine tumor surgery?

Spine Summit, 2025 Annual Meeting

Kumar JI, Clampitt B, Kittur K, Chose C, El Sayed B, Salmanian S, Alikhani P. Sagittal Alignment Showdown: SRS-Schwab vs Age-Adjusted vs T4-L1 Hip Axis – Which is Superior?

Spine Summit, 2024 Annual Meeting

Kumar JI, Hidalgo AV, Afford N, Baig A, Monsour M, Alikhani P. Are high grade Roussouly curves associated with increased risk of PJK?

Kumar JI, Hidalgo AV, Azari L, Kim J, Orenday J, Baig A, Monsour M, Alikhani P. A new perspective on pelvic fixation: Starting point matters most in debate between iliac bolts and S1-alar-iliac screws.

North American Spine Society, 2022 Annual Meeting

Noureldine MHA, Farooq J, Kumar JI, Pressman E, Coughlin E, Mhaskar R, Alikhani P. Improved outcomes with concurrent instrumentation and fusion of the sacroiliac joint in patients with long lumbosacral constructs.

American Association of Neurological Surgeons, 2018 Annual Meeting:

Kumar JI, Yanamadala V, and Shin JH. Factors leading to readmission within 30 days in patients undergoing surgery for spinal metastases..

Spine Summit 2017, 34th Annual Meeting of the Section on Disorders of the Spine and Peripheral Nerves

Kumar JI, Yanamadala V, and Shin JH. Factors leading to readmission within 30 days in patients undergoing surgery for spinal metastases..

Kumar JI, Yanamadala V, and Shin JH. Complications associated with surgery for spinal metastases: a multivariable analysis..

POSTER PRESENTATIONS

International Spine Deformity Symposium, 2026. New York, NY.

Kumar JI, Clampitt B, Kittur K, Chose C, El Sayed B, Salmanian S, Alikhani P. Sagittal Alignment Showdown: SRS-Schwab vs Age-Adjusted vs T4-L1 Hip Axis – Which is Superior?

North American Neuromodulation Society, 2023 Annual Meeting

Flouty O, Kumar JI, Piper K, Zesiewicz T, Bezchlibnyk Y. High Intensity Focused Ultrasound for Tremor in Chronic Inflammatory Demyelinating Polyneuropathy.

Schimmel S, George Z, Piper K, Correa N, Kumar JI, Neal E, Zesiewicz T, Bezchlibnyk Y. New indication for an old tool: systematic review of deep brain stimulation for Spinocerebellar Ataxia..

Gordon J, Piper K, George Z, Kumar JI, Vakharia K, Bezchlibnyk Y. Anatomical Predictors of Foramen Ovale Cannulation for Trigeminal Nerve Modulating Procedures.

Congress of Neurological Surgeons, 2017 Annual Meeting:

Kumar JI, Yanamadala V, and Shin JH. Factors leading to readmission within 30 days in patients undergoing surgery for spinal metastases..

Kumar JI, Yanamadala V, and Shin JH. Complications associated with surgery for spinal metastases: a multivariable analysis..

Kumar JI, Puthenpura V, Ebb DH, Frosch MP, Gudewicz TM, Yanamadala V, and Butler W. Pediatric Medulloblastoma: 25 years of experience from a single institution. .

New England Neurosurgical Society, 2017 Annual Meeting

Kumar JI, Yanamadala V, and Shin JH. Factors leading to readmission within 30 days in patients undergoing surgery for spinal metastases..

Kumar JI, Yanamadala V, and Shin JH. Complications associated with surgery for spinal metastases: a multivariable analysis..

Kumar JI, Puthenpura V, Ebb DH, Frosch MP, Gudewicz TM, Yanamadala V, and Butler W. Pediatric Medulloblastoma: 25 years of experience from a single institution. .

Congress of Neurological Surgeons, 2015 Annual Meeting:

Kumar JI, Yanamadala V, Walcott BP, Fecci PE, Rozman P, Nahed BV, Swearingen B. Reversal of warfarin associated coagulopathy with 4-factor prothrombin complex concentrate in traumatic brain injury and intracranial hemorrhage.

American Medical Association, 2014 Interim Meeting:

Kumar JI, Anthony M, Crawford SA, Arky RA, Bitton A, Splinter GL. Advancement of Patient-Centered Medical Homes under Oklahoma Medicaid Program from Entry to Optimal Level: Barriers and Incentives.

Massachusetts Medical Society, 2014 Annual Research Symposium:

Kumar JI, Anthony M, Crawford SA, Arky RA, Bitton A, Splinter GL. Advancement of Patient-Centered Medical Homes under Oklahoma Medicaid Program from Entry to Optimal Level: Barriers and Incentives.

*****1st Place Award for Health Policy**

Harvard Medical School, 2014 Soma Weiss Annual Research Day:

Kumar JI, Anthony M, Crawford SA, Arky RA, Bitton A, Splinter GL. Advancement of Patient-Centered Medical Homes under Oklahoma Medicaid Program from Entry to Optimal Level: Barriers and Incentives.

*****Leon Eisenberg 1st Place Prize for Medicine in Society Research**

INVITED PRESENTATIONS

“Posterior Cervical Instrumentation and Fusion, Case Review and Technical Pearls.” Resident Case Conference. University of California, San Francisco. San Francisco, CA. February 19, 2026.

“Lateral Lumbar Interbody Fusion.” Resident Case Conference. University of California, San Francisco. San Francisco, CA. October 16, 2025.

“Cervical Trauma.” Resident Case Conference. University of California, San Francisco. San Francisco, CA. August 21, 2025.

“Anterior Lumbar Interbody Fusion at L5-S1.” Neurosurgery Research & Education Foundation: Minimally Invasive Surgery (MIS) and Emerging Technologies Course. Barrow Neurologic Institute. August 1-2, 2025.

“Cervical Trauma.” Neurosurgery Research & Education Foundation: Minimally Invasive Surgery (MIS) and Emerging Technologies Course. Barrow Neurologic Institute. August 1-2, 2025.

“Sagittal Balance: Beyond Pelvic Incidence.” Seattle Science Foundation: Journal Club. March 1, 2024

<https://www.youtube.com/watch?v=NHc3AnUpC88>

“Deep Brain Stimulation: Just What You Need.” University of South Florida, Department of Neurosurgery Grand Rounds, Resident Education Series. June 2nd, 2023.

“Sagittal Balance Part 2: Nuance to Novelty.” University of South Florida, Department of Neurosurgery Grand Rounds, Resident Education Series. April 21, 2023.

“Sagittal Balance Part 1: Fundamentals to Parameters.” University of South Florida, Department of Neurosurgery Grand Rounds, Resident Education Series. April 14, 2023.

“A Christmas Carol: Spines of the Past, Present, and Future.” San Diego Spine Foundation: Spine Conference. December 12, 2022.

<https://www.youtube.com/watch?v=DRVUjIDg1dw>

“Thoracolumbar Trauma Indications.” San Diego Spine Foundation: Spine Conference. October 3, 2022

<https://www.youtube.com/watch?v=cN-MhoLsxIs>

“Sacropelvic Fixation.” San Diego Spine Foundation: Spine Conference. July 18, 2022

<https://www.youtube.com/watch?v=KfGohWrZkXY>

SERVICE TO PROFESSIONAL ORGANIZATIONS

2026-Present: Cervical Spine Research Society, Communications Committee Member

2025-Present: Scoliosis Research Society, Historical Committee Member

2025-Present: Journal of Neurosurgery Publications Group, E2M Ad Hoc Reviewer

2025: Global Spine Congress, Annual Meeting Abstract Reviewer***

2022-Present: North American Spine Society, Early Career Advisory Council

2019-2022: AANS Young Neurosurgeons Committee Member

PROGRAM DEVELOPMENT

USF Neurosurgery/TGH Neuroscience Joint Journal Club. Organized a multidisciplinary journal club including 50+ attendees including neurosurgery residents and faculty, floor nursing staff, intensive care unit nursing staff, and pediatric intensive care unit nursing staff. January 14, 2025.

USF Glioma Symposium. Co-Course Director. Organized a two-part dinner and lecture series for neurosurgery trainees on the surgical management, medical management, and radiation therapy management of low grade and high grade gliomas. January 9th & 16th, 2025.

ATTENDED COURSES

2026 AANS Neurosurgical Coding and Reimbursement: In-Person Meeting. Las Vegas, NV. January 22-24, 2026.

AO Spine Managing Complications: Clinically, Ethically, and Legally. CME credit. Tampa, FL. November 7-8, 2025.

International Spine Study Group Resident and Fellows Adult Deformity Instructional Course and Cadaver Lab. Las Vegas, NV. August 15-16, 2025.

Engineering Principles of Deep Brain and Spinal Cord Stimulation Course. North American Neuromodulation Society. Las Vegas, Nevada. January 18, 2024.

Robotic Spine Surgery Cadaver Course. University of South Florida, Department of Neurosurgery. December 27, 2023.

Deep Brain Stimulation, Graduating Fellows Program. Minneapolis, Minnesota. October 12-13, 2023.

Deep Brain Stimulation, Focus on Fellows Summit. Valencia, California. June 24, 2023.

Lateral Transposas & Anterior Lumbar Interbody Fusion Cadaver Course. San Diego, California. August 25, 2023.

Skull Base Cranial Course: Accessing the brain from every angle. Dallas, Texas. May 19-20, 2023.

Resident & Fellows Spine Course. Nashville, Tennessee. April 28-30, 2023.

Stereotactic and Functional Neurosurgery Hands-on Training Course for Neurosurgeons, Neurologist and Interventional Pain Specialist. Oregon Health and Science University, Department of Neurosurgery. March 29-31, 2023.

MRI-Guided Laser Ablation Foundations Course. Lafayette, Colorado. February 10-11, 2023.

Skull Base Dissection Course at the North American Skull Base Society Annual Meeting. Tampa, Florida. February 15-16, 2023.

Fellows and Young Surgeons' Course by the Spine Interactive Educational Program. Austin Texas. November 18-20, 2022.

Pediatric Spine Deformity Symposium – Cradle to College. San Diego, California. October 7-8, 2022.

AO Spine North American Course – Controversies in Complex Spinal Surgery for Fellows. Las Vegas, Nevada. September 28 – October 1, 2022.

Spine Deformity Education Symposium in collaboration with the International Spine Study Group. Las Vegas, Nevada. August 26-27, 2022.

Spine Residents & Fellows Course. Seattle Science Foundation. August 12–13, 2022.

Spine Fundamentals Cadaver Course for Residents & Fellows. American Association of Neurological Surgeons + Neurosurgery Research and Education Foundation. Barrow Neurological Institute. Phoenix, Arizona. July 22-24, 2022.

Prone Transposas Interbody Fusion Cadaver Course. University of South Florida, Department of Neurosurgery. November 12, 2021.

Oblique Lumbar Interbody Fusion Procedure Course. University of South Florida, Department of Neurosurgery. January 15, 2021.

Future Leaders Spine Lab. University of South Florida, Department of Neurosurgery. December 18, 2020.

Direct Lateral Spine Surgery Cadaver Lab. University of South Florida, Department of Neurosurgery. December 17, 2020.

Principles of Open Spinal Deformity Treatment. University of South Florida, Department of Neurosurgery. April 12, 2019.

Chicago Skull Base Surgery Hands On Course: Open and Endoscopic Approaches. Northshore University Health System. August 11-12, 2018.

Summer Cranial Course and Skills Lab. University of South Florida, Department of Neurosurgery. Annually from 2019-2024.

Minimally Invasive Spine Surgery and Deformity Course. University of South Florida, Department of Neurosurgery. Annually from 2019-2024.

- *Chief Resident Proctor in 2024.*