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EDUCATION AND TRAINING

August 2016 – July 2017	Spine Surgery Fellowship, Emory University Spine Center	
June 2011 – June 2016	Orthopaedic Surgery Residency, Harvard University	
August 2007 – June 2011	University of California San Francisco School of Medicine	M.D.
August 2002 – Dec 2006	University of California Berkeley College of Engineering	B.S.

LICENSES AND BOARD CERTIFICATIONS

June 2016 – Present	Medical License, State of California
Sept 2015 – Present	Medical License, State of Georgia
July 2011 – June 2016	Medical License, State of Massachusetts
July 2016	American Board of Orthopaedic Surgery – Part 1
July 2012	United States Medical Licensing Examination – Step 3
October 2010	United States Medical Licensing Examination – Step 2
April 2009	United States Medical Licensing Examination – Step 1

MEMBERSHIP IN PROFESSIONAL ORGANIZATIONS

2016 – Present	AO Spine North America
2016 – Present	North American Spine Society
2011 – 2016	Massachusetts Orthopaedic Association
2011 – Present	American Academy of Orthopaedic Surgeons
2011 – 2016	Massachusetts Medical Society
2007 – 2011	California Medical Association
2007 – 2011	San Francisco Medical Society

SERVICE TO PROFESSIONAL PUBLICATIONS

2016 – present	Invited reviewer, <i>Spine</i>
2015	Invited reviewer, <i>PLOS ONE</i>
2015 – 2016	Editor-in-Chief, <i>The Orthopaedic Journal at Harvard Medical School</i>
2012 – 2015	Associate editor, <i>The Orthopaedic Journal at Harvard Medical School</i>
2010 – 2011	Invited reviewer, <i>Cartilage</i>
2009 – 2010	Invited reviewer, <i>European Radiology</i>

SELECT AWARDS AND HONORS

2015	<i>Orthopaedic Journal at Harvard Medical School</i> RADIUS award
2007	Outstanding Graduate Student Instructor Award, UC Berkeley
2007 and 2008	Merage Fellowship for the American Dream
2007 and 2011	Academic Achievement Award, Association of Professors and Scholars of Iranian Heritage
2002 – 2006	Berkeley Scholarship, UC Berkeley

PEER-REVIEWED PUBLICATIONS

1. D Tobert, V Antoci, SP Patel, **E Saadat** and CM Bono. Adjacent segment disease in the cervical and lumbar spine. *Clin Spine Surg.* 2016 Sep 16. [Epub ahead of print]
2. **E Saadat**, SO Vargas, ME Anderson and M Glotzbecker. Acutely inflamed intra-articular localized tenosynovial giant cell tumor presenting as a septic hip. *JBJS Case Connec.* 2016 Jul 27; 6 (3): e60.
3. JW Brubacher, **E Saadat**, CM Harper, Y Marjoua and GSM Dyer. Design of a simulation-based curriculum to train orthopaedic residents for disasters in the operating room. *Orthop J Harvard Med Sch.* 2016 June;17: 49-55.
4. AJ Schoenfeld, DA Leonard, **E Saadat**, CM Bono, MB Harris and ML Ferrone. Predictors of 30- and 90-Day Survival Following Surgical Intervention for Spinal Metastases: A Prognostic Study Conducted at Four Academic Centers. *Spine (Phila Pa 1976).* 2016 Apr;41(8):E503-9.
5. AK Ghori, DA Leonard, AJ Schoenfeld, **E Saadat**, N Scott, M Ferrone, A Pearson and MB Harris. Modeling one-year survival after surgery on the metastatic spine. *Spine J.* 2015 July 6; pii: S1529-9430(15)00670-1.
6. D Zhang, **E Saadat**, GSM Dyer and MB Harris. Occupational sharps exposures among orthopaedic surgery residents: a multi-institutional survey study. *Orthop J Harvard Med Sch.* 2015 June;16: 43-49.
7. **E Saadat**, EJ Curry, X Li and EG Matzkin. Bilateral simultaneous anterior cruciate ligament injury: a case report and national survey of orthopedic surgeon management preference. *Orthop Rev (Pavia).* 2014 Dec 16;6(4):5551.
8. **E Saadat**, JV Tiberi, Y-M Kwon and DW Burke. Smith-Petersen Vitallium Mold Arthroplasty: 51-year follow-up with histopathologic analysis. *JBJS Case Connect.* 2013 Oct 09; 3 (4): e112.
9. **E Saadat**, SD Martin, TS Thornhill, S Brownlee, E Losina and JN Katz. Factors predictive of failure of surgical treatment for femoroacetabular impingement: Review of the literature. *Am J Sports Med.* 2013 Aug 30;42(6):1487-1495.
10. B Jobke, R Bolbos, **E Saadat**, J Cheng, X Li and S Majumdar. Mechanism of disease in early osteoarthritis: application of modern MR imaging techniques - a technical report. *Magn Reson Imaging.* 2013 Jan;31(1):156-61.
11. **E Saadat**, G Diekmann, S Takemoto and MD Ries. Is an algorithmic approach to the treatment of recurrent dislocation after THA effective? *Clin Orth Rel Res.* 2012 Feb;470(2):482-9.
12. X Li, J Cheng, K Lin, **E Saadat**, RI Bolbos, MD Ries, A Horvai, TM Link and S Majumdar. Quantitative MRI using $T_{1\rho}$ and T_2 in human osteoarthritic cartilage specimens: correlation with biochemical measurements and histology. *Magn Reson Imaging.* 2011 Apr;29(3):324-34.
13. J Zuo, **E Saadat**, A Romero, K Loo, X Li, TM Link, J Kurhanewicz and S Majumdar. Assessment of Intervertebral Disc Degeneration with Magnetic Resonance Single Voxel Spectroscopy. *Magn Res Med.* 2009;62(5):1140-6.
14. J Lozano, **E Saadat**, X Li, S Majumdar and CB Ma. Magnetic resonance $T(1\rho)$ imaging of osteoarthritis: a rabbit ACL transection model. *Magn Reson Imaging.* 2009;27(5):611-6.
15. **E Saadat**, B Jobke, B Chu, Y Lu, J Cheng, X Li, MD Ries, S Majumdar and TM Link. Diagnostic performance of in vivo 3T Fast Spin Echo MRI for articular cartilage abnormalities in human osteoarthritic knees using histology as standard of reference. *Eur Radiol.* 2008;18(10):2292-2302.
16. **E Saadat**, H Lan, S Majumdar, DM Rempel and KB King. Long-term cyclical in vivo loading increases cartilage proteoglycan content in a spatially specific manner: an infrared microspectroscopic imaging and polarized light microscopy study. *Arthritis Res Ther.* 2006;8(5):R147.

INVITED PUBLICATIONS

Invited Review Article:

1. **E Saadat** and S Majumdar. Magnetic Resonance Imaging of cartilage: Detecting early degeneration and monitoring post-operative improvement. *US Musculoskeletal Review* 2007; June:16-18.

Book Chapters:

1. **E Saadat**, JM Rhee, JG Heller. Anterior cervical discectomy and fusion. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
2. **E Saadat**, JM Rhee, JG Heller. Posterior cervical laminoplasty. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
3. **E Saadat**, JM Rhee, JG Heller. Posterior cervical foraminotomy. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
4. **E Saadat**, D Ananthakrishnan, KW Michael, B Horton. Percutaneous thoracic fusion and pedicle screw instrumentation. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
5. **E Saadat**, ST Yoon and SD Boden. Posterior lumbar fusion and pedicle screw instrumentation. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
6. **E Saadat**, ST Yoon and SD Boden. Open transforaminal lumbar interbody fusion. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
7. **E Saadat**, ST Yoon and SD Boden. Anterior lumbar interbody fusion. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
8. **E Saadat** and KW Michael. Application of Halo, Mayfield head holder and Gardner-Wells tongs. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
9. **E Saadat** and KW Michael. Operative treatment of thoracolumbar burst fractures. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
10. **E Saadat**, JG Heller and S Presciutti. Dural repair. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
11. **E Saadat**, JG Heller and S Presciutti. Neuromonitoring alert during spinal surgery. In “Emory Illustrated Tips and Tricks in Spine Surgery,” JM Rhee (Ed), Lippincot Williams and Wilkins (*in preparation*).
12. **E Saadat** and TD Cha. Disc degeneration and pain in the lumbar spine. In “Orthopaedic Knowledge Update 12,” J Grauer (Ed), American Academy of Orthopaedic Surgeons (2017).
13. **E Saadat**, FJ Hornicek and JH Schwab. Surgical management of metastatic lesions of the cervical spine. In “Cirugía de la Columna Cervical,” R Gonzalez Diaz and H Koller (Eds), Editorial Medica Panamericana (2015).
14. **E Saadat** and P Wright. Pathology of the child’s cervical spine. In “The Child’s Cervical Spine,” J Phillips, S Shah, B Yaszay and D Hedequist (Eds), Springer Publishing (*in press*).
15. **E Saadat** and TD Cha. Interspinous process distraction. In “Decision Making in Degenerative Spinal Surgery,” K Singh, S Qureshi (Eds), Nova (2015).
16. AK Ghori, T Herzog, **E Saadat** and A White. PET scanning in spine surgery in clinical decision support. In “Spine Surgery,” A Vaccaro, S Prasad, J Rihn, M Wang (Eds), Decision Support in Medicine LLC (2014).

17. **E Saadat**, TM Link and CB Ma. Current Magnetic Resonance Imaging techniques for clinical diagnosis and staging of knee osteoarthritis. In “Advances in MRI of the Knee for Osteoarthritis,” S Majumdar (Ed), World Scientific Publishing Co (2010).
18. **E Saadat** and TM Link. Current radiographic diagnosis for osteoarthritis of the knee. In “Advances in MRI of the Knee for Osteoarthritis,” S Majumdar (Ed), World Scientific Publishing Co (2010).
19. **E Saadat**, RI Bolbos and MD Ries. Clinical presentation and natural history of osteoarthritis. In “Advances in MRI of the Knee for Osteoarthritis,” S Majumdar (Ed), World Scientific Publishing Co (2010).

PRESENTATIONS

Oral Presentations (Regional, National and International Conferences):

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| May 2017 | Emory University School of Medicine Primary Care Update CME course: Office Orthopaedics, Sports Medicine and Spine Problems, Atlanta, GA.
E Saadat . Imaging algorithm and differential diagnosis for back/leg pain. |
| March 2016 | American Academy of Orthopaedic Surgeons, 2016 Annual Meeting, Orlando, FL.
E Saadat , DA Leonard, AK Ghori, N Scott, CM Bono, AP White, ML Ferrone and MB Harris: Timing of diagnosis of metastatic disease to the spine as a predictor for post-surgical survival. |
| March 2016 | American Academy of Orthopaedic Surgeons, 2016 Annual Meeting, Orlando, FL.
AJ Schoenfeld, DA Leonard, E Saadat , CM Bono, MB Harris and ML Ferrone: Predictors of 30- and 90-Day Survival Following Surgical Intervention for Spinal Metastases: A Prognostic Study Conducted at Four Academic Centers. |
| October 2015 | North American Spine Society, 29 th Annual Meeting, Chicago, IL.
AK Ghori, DA Leonard, E Saadat, CM Bono, AP White, ML Ferrone and MB Harris: Modeling one-year survival after surgery on the metastatic spine. |
| February 2011 | American Academy of Orthopaedic Surgeons, 2011 Annual Meeting, San Diego, CA.
E Saadat , G Diekmann, S Takemoto and MD Ries: Comparative assessment of surgical interventions for treatment of recurrent dislocation after total hip arthroplasty. |
| September 2010 | The Hip Society, 2010 Summer Scientific Meeting, New York, NY.
E Saadat , G Diekmann, S Takemoto and MD Ries: Comparative assessment of surgical interventions for treatment of recurrent dislocation after total hip arthroplasty. |
| February 2009 | Orthopaedic Research Society, 55 th Annual Meeting, Las Vegas, NV.
J Zuo, E Saadat , A Romero, K Loo, X Li and S Majumdar: Identification of Magnetic Resonance spectroscopic markers for intervertebral disc degeneration in cadaveric spines and correlation to biochemical findings. |
| May 2008 | International Society for Magnetic Resonance in Medicine, 16 th Scientific Meeting and Exhibition, Toronto, Ontario, Canada.
J Cheng, E Saadat , RI Bolbos, B Jobke, SM Siddiqui, MD Ries, TM Link and S Majumdar: Detection of Proteoglycan Content in Human Osteoarthritic Cartilage Samples with Magnetic Resonance T1rho Imaging. |
| May 2008 | International Society for Magnetic Resonance in Medicine, 16 th Scientific Meeting and Exhibition, Toronto, Ontario, Canada.
J Zuo, E Saadat , X Li and S Majumdar: MR spectroscopy in intact and degenerated bovine intervertebral disc. |
| March 2008 | Orthopaedic Research Society, 54 th Annual Meeting, San Francisco, CA.
J Zuo, E Saadat , X Li and S Majumdar: Single voxel spectroscopy of intervertebral disc degeneration – An in vitro bovine disc degeneration model. |

March 2008 Orthopaedic Research Society, 54th Annual Meeting, San Francisco, CA.
E Saadat, S Majumdar, DM Rempel and KB King: The effect of amplitude and frequency of in vivo loading on proteoglycan content of rabbit articular cartilage.

Poster Presentations (Regional, National and International Conferences):

- March 2017 AO Spine Fellow's Forum, Banff, Canada
E Saadat, DA Leonard, AK Ghori, N Scott, CM Bono, AP White, ML Ferrone and MB Harris: Timing of diagnosis of metastatic disease to the spine as a predictor for post-surgical survival.
- June 2016 American Orthopaedic Association, 2016 Annual Meeting and Leadership Conferences. Seattle, WA.
JW Brubacher, **E Saadat**, Y Marjoua, CM Harper and GSM Dyer: Design of a simulation-based curriculum to train orthopaedic residents for disasters in the operating room.
- April 2009 International Society for Magnetic Resonance in Medicine, 17th Scientific Meeting and Exhibition, Honolulu, HI.
J Zuo, **E Saadat**, A Romero, K Loo, TM Link and S Majumdar: MR Spectroscopy in intervertebral disc and correlation with biochemical analysis.
- September 2008 5th Annual UCSF Imaging Research Symposium, San Francisco, CA.
E Saadat, J Zuo, A Romero, K Loo, X Li and S Majumdar: Identification of MR spectroscopic markers for intervertebral disc degeneration in cadaveric spines and correlation to biochemical findings.
- March 2008 Orthopaedic Research Society, 54th Annual Meeting, San Francisco, CA.
B Jobke, RI Bolbos, **E Saadat**, J Cheng, X Li and S Majumdar: Initial pathomechanisms in osteoarthritis: advances in new MR imaging techniques (T1rho).
- December 2007 Osteoarthritis Research Society International, 2007 World Congress on Osteoarthritis, Ft Lauderdale, FL.
E Saadat, RI Bolbos, J Cheng, B Jobke, MD Ries, S Majumdar and X Li: Detection of proteoglycan depletion in human osteoarthritic cartilage samples with magnetic resonance T1rho imaging.
- December 2007 Osteoarthritis Research Society International, 2007 World Congress on Osteoarthritis, Ft Lauderdale, FL.
E Saadat, B Jobke, J Cheng, X Li, RI Bolbos, MD Ries, S Majumdar and TM Link: Diagnostic performance of in vivo MRI for articular cartilage abnormalities in human osteoarthritic knees using histology with Safranin-O staining as standard of reference.
- December 2007 Osteoarthritis Research Society International, 2007 World Congress on Osteoarthritis, Ft Lauderdale, FL.
J Cheng, B Jobke, **E Saadat**, RI Bolbos, MD Ries, TM Link, X Li and S Majumdar: Local correlation between *in vivo* MR T1ρ mapping and biochemistry and histology in osteoarthritic articular cartilage.
- September 2007 4th Annual UCSF Imaging Research Symposium, San Francisco, CA.
E Saadat, B Jobke, J Cheng, X Li, RI Bolbos, MD Ries, S Majumdar and TM Link: Diagnostic performance of in vivo MRI for articular cartilage abnormalities in human osteoarthritic knees using histology with Safranin-O staining as standard of reference.
- June 2007 8th Annual University of California Systemwide Bioengineering Symposium, UCSF, San Francisco, CA.
E Saadat, RI Bolbos, J Cheng, B Jobke, MD Ries, S Majumdar and X Li: Detection of proteoglycan depletion in human osteoarthritic cartilage with Magnetic Resonance T1ρ Imaging.

June 2007

8th Annual University of California Systemwide Bioengineering Symposium, UCSF, San Francisco, CA.

J Cheng, B Jobke, **E Saadat**, RI Bolbos, MD Ries, TM Link, X Li and S Majumdar: Regional correlation between *in vivo* T1rho mapping and histology and biochemistry in osteoarthritic articular cartilage.

March 2006

Orthopaedic Research Society, 52nd Annual Meeting, Chicago, IL.

E Saadat, S Majumdar, A Burghardt, and KB King: Cyclical *in vivo* loading increases cartilage proteoglycan content in the rabbit metacarpophalangeal joint.