

CURRICULUM VITAE

NAME Hashmi, Sohaib Zafar MD

PERSONAL HISTORY University of California, Irvine
101 The City Dr. S.
Pavilion III
Orange, CA 92868

DOB: October 19, 1987
Place of Birth: Lahore, Pakistan
Citizenship: USA
Married
Wife: Amna
Daughters: Aleena, Yusra

EDUCATION

2005-2009 University of Notre Dame, South Bend, IN
Bachelor of Science

2010 Hospital for Special Surgery Department of Orthopaedic Surgery New York, NY
Medical Student Summer Research Fellowship – Direction of Hand /Upper Extremity

2012-2013 Northwestern University Department of Orthopaedic Surgery, Chicago, IL
Basic and Translational Science Research Fellowship - Direction of Dr. Wellington Hsu

2009-2014 University of Toledo College of Medicine, Toledo, OH
Doctor of Medicine

POSTDOCTORAL TRAINING

2014-2019 Northwestern University Feinberg School of Medicine, Chicago IL
Orthopaedic Surgery Residency

2019-2020 Cedars- Sinai Medical Center, Los Angeles CA
Orthopaedic Trauma Fellowship

2020-2021 University of Maryland/Shock Trauma Center
Orthopaedic Spine Fellowship

LICENSURE

2019 – Present California Medical License, A 162711

BOARD CERTIFICATION

2019 – Present American Board of Orthopedic Surgeons Board Eligible (Part 1 passed)

PROFESSIONAL EXPERIENCE

PRESENT POSITION

2021-Present HS Assistant Clinical Professor -Department of Orthopaedic Surgery, UCI

ACADEMIC APPOINTMENT

2020-2021 Orthopaedic Spine Surgery Fellow, University of Maryland/Shock Trauma Center

2019-2020 Orthopaedic Trauma Surgery Fellow/acting instructor, Cedars Sinai Medical Center

PUBLICATIONS

1. Ebraheim NA, Liu J, **Hashmi SZ**, Sochacki KR, Moral MZ, Hirschfeld AG. High complication rate in locking plate fixation of lower periprosthetic distal femur fractures in patients with total knee arthroplasties. *J Arthroplasty*. 2012 May;27(5):809-13.
2. Haque RM, **Hashmi SZ**, Ahmed Y, Uddin O, Ogden AT, Fessler R. Primary dural repair in minimally invasive spine surgery. *Case Rep Med*. 2013;2013:876351.
3. Elgafy HK, Miller JD, **Hashmi S**, Erickson S. Top 20 cited Spine Journal articles, 1990-2009. *World J Orthop*. 2014 Jul 18;5(3):392-7.
4. **Hashmi S**, Noureldin M, Khan SN. Lessons from the infuse trials: do we need a classification of bias in scientific publications and editorials? *Curr Rev Musculoskelet Med*. 2014 Sep;7(3):193-9.
5. Lee SS, Hsu EL, Mendoza M, Ghodasra J, Nickoli MS, Ashtekar A, Polavarapu M, Babu J, Riaz RM, Nicolas JD, Nelson D, **Hashmi SZ**, Kaltz SR, Earhart JS, Merk BR, McKee JS, Bairstow SF, Shah RN, Hsu WK, Stupp SI. Gel scaffolds of BMP-2-binding peptide amphiphile nanofibers for spinal arthrodesis. *Adv Healthc Mater*. 2015 Jan 7;4(1):131-141.
6. **Hashmi SK**, Baranov E, Gonzalez A, Olthoff K, Shaked A. Genomics of liver transplant injury and regeneration. *Transplant Rev (Orlando)*. 2015 Jan;29(1):23-32.
7. Hsu EL, Sonn K, Kannan A, Bellary S, Yun C, **Hashmi S**, Nelson J, Mendoza M, Nickoli M, Ghodasra J, Park C, Mitchell S, Ashtekar A, Ghosh A, Jain A, Stock SR, Hsu WK. Dioxin Exposure Impairs BMP-2-Mediated Spinal Fusion in a Rat Arthrodesis Model. *J Bone Joint Surg Am*. 2015 Jun 17;97(12):1003-10.

8. Boody BS, Jenkins TJ, **Hashmi SZ**, Hsu WK, Patel AA, Savage JW. Surgical Site Infections in Spinal Surgery. *J Spinal Disord Tech*. 2015 Dec;28(10):352-62.
9. Kang L, **Hashmi SZ**, Nguyen J, Lee SK, Weiland AJ, Mancuso CA. Patients With Thumb Carpometacarpal Arthritis Have Quantifiable Characteristic Expectations That Can Be Measured With a Survey. *Clin Orthop Relat Res*. 2016 Jan;474(1):213-21.
10. Ghodasra JH, Weatherford BM, Nickoli MS, Daley EL, Chen K, Zhang LQ, **Hashmi SZ**, Hsu EL, Hsu WK. The effect of rhBMP-2 in a novel, non-instrumented extremity nonunion model. *J Orthop Sci*. 2016 Jan;21(1):79-85.
11. Ghodasra JH, Nickoli MS, **Hashmi SZ**, Nelson JT, Mendoza M, Nicolas JD, Bellary SS, Sonn K, Ashtekar A, Park CJ, Babu J, Yun C, Ghosh A, Kannan A, Stock SR, Hsu WK, Hsu EL. Ovariectomy-Induced Osteoporosis Does Not Impact Fusion Rates in a Recombinant Human Bone Morphogenetic Protein-2-Dependent Rat Posterolateral Arthrodesis Model. *Global Spine J*. 2016 Feb;6(1):60-8.
12. Mai HT, Mitchell SM, **Hashmi SZ**, Jenkins TJ, Patel AA, Hsu WK. Differences in bone mineral density of fixation points between lumbar cortical and traditional pedicle screws. *Spine J*. 2016 Jul;16(7):835-41.
13. Sonn KA, Kannan AS, Bellary SS, Yun C, **Hashmi SZ**, Nelson JT, Ghodasra JH, Nickoli MS, Parimi V, Ghosh A, Shawen N, Ashtekar A, Stock SR, Hsu EL, Hsu WK. Effect of recombinant human bone morphogenetic protein-2 on a novel lung cancer spine metastasis model in rodents. *J Orthop Res*. 2016 Jul;34(7):1274-81.
14. Haque RM, Uddin OM, Ahmed Y, El Ahmadieh TY, **Hashmi SZ**, Shah A, Fessler RG. "Push-Through" Rod Passage Technique for the Improvement of Lumbar Lordosis and Sagittal Balance in Minimally Invasive Adult Degenerative Scoliosis Surgery. *Clin Spine Surg*. 2016 Oct;29(8):323-30.
15. Lee SS, Fyrner T, Chen F, Álvarez Z, Sleep E, Chun DS, Weiner JA, Cook RW, Freshman RD, Schallmo MS, Katchko KM, Schneider AD, Smith JT, Yun C, Singh G, **Hashmi SZ**, McClendon MT, Yu Z, Stock SR, Hsu WK, Hsu EL, Stupp SI. Sulfated glycopeptide nanostructures for multipotent protein activation. *Nat Nanotechnol*. 2017 Aug;12(8):821-829.
16. Weiner JA, Cook RW, **Hashmi S**, Schallmo MS, Chun DS, Barth KA, Singh SK, Patel AA, Hsu WK. Factors Associated With Financial Relationships Between Spine Surgeons and Industry: An Analysis of the Open Payments Database. *Spine (Phila Pa 1976)*. 2017 Sep 15;42(18):1412-1418.
17. Kang L, Nguyen J, **Hashmi SZ**, Lee SK, Weiland AJ, Mancuso CA. What Demographic and Clinical Characteristics Correlate With Expectations With Trapeziometacarpal Arthritis? *Clin Orthop Relat Res*. 2017 Nov;475(11):2704-2711.
18. Kang L, Nguyen J, **Hashmi SZ**, Lee SK, Weiland AJ, Mancuso CA. Erratum to: What Demographic and Clinical Characteristics Correlate With Expectations With Trapeziometacarpal Arthritis? *Clin Orthop Relat Res*. 2017 Nov;475(11):2828.

19. Boody BS, **Hashmi SZ**, Rosenthal BD, Maslak JP, McCarthy MH, Patel AA, Savage JW, Hsu WK. The Effectiveness of Bioskills Training for Simulated Lumbar Pedicle Screw Placement. *Global Spine J.* 2018 Sep;8(6):557-562.
20. **Hashmi SZ**, Marra A, Jenis LG, Patel AA. Current Concepts: Central Cord Syndrome. *Clin Spine Surg.* 2018 Dec;31(10):407-412.
21. Butler BA, Lawton CD, **Hashmi SZ**, Stover MD. The Relevance of the Judet and Letournel Acetabular Fracture Classification System in the Modern Era: A Review. *J Orthop Trauma.* 2019 Feb;33 Suppl 2:S3-S7.
22. Mai HT, Schneider AD, Alvarez AP, **Hashmi SZ**, Smith JT, Freshman RD, Mitchell SM, Qin CD, Hsu WK. Anatomic Considerations in the Lateral Transpsoas Interbody Fusion: The Impact of Age, Sex, BMI, and Scoliosis. *Clin Spine Surg.* 2019 Jun;32(5):215-221.
23. Maqsood A, **Hashmi SZ**, Hartwell M, Sarwark JF. Idiopathic scoliosis: A pilot MR study of early vertebral morphological changes and spinal asymmetry. *J Orthop.* 2019 Nov 12;19:174-177.
24. Wun K, **Hashmi SZ**, Maslak J, Schneider AD, Katchko KM, Singh G, Patel AA, Hsu WK. The Variability of Lumbar Facet Joint Synovial Cyst Recurrence Requiring Revision Surgery After Decompression-only and Decompression/Fusion. *Clin Spine Surg.* 2019 Dec;32(10):E457-E461.
25. Wiss DA, Garlich J, **Hashmi S**, Neustein A. Risk Factors for Development of a Recalcitrant Femoral Nonunion: A Single Surgeon Experience in 122 Patients. *J Orthop Trauma.* 2021 Dec 1;35(12):619-625.
26. **Hashmi SZ**, Butler B, Johnson D, Wun K, Sherman A, Summers H, Stover M. Accuracy of Radiographic Displacement Measurement in a Pelvic Ring Injury Model. *J Am Acad Orthop Surg.* 2022 Jan 15;30(2):e173-e181.
27. Butler BA, Selley RS, Cantrell CK, Nicolay RW, Lawton CD, **Hashmi SZ**, Carlile KR, Stover MD. Algorithm Improves Acetabular Fracture Radiograph Interpretation Among Inexperienced Practitioners. *Cureus.* 2022 Jan 21;14(1):e21471.
28. Camino-Willhuber G, Franklin A, Rosecrance K, Oyadomari S, Chan J, Holc F, **Hashmi S**, Oh M, Bhatia N, Emmerich J, Lee YP. Preoperative hypoalbuminemia and dialysis increase morbidity/mortality after spine surgery for primary pyogenic spinal infections (ACS-NSQIP Study). *Surg Neurol Int.* 2022 May 6;13:193.
29. Hatter MJ, Beyer RS, Camino-Willhuber G, Franklin A, Brown NJ, **Hashmi S**, Oh M, Bhatia N, Lee YP. Primary spinal infections in patients with solid organ transplant: a systematic literature review and illustrative case. *J Neurosurg Case Lessons.* 2022 Jun 27;3(26):CASE22157.

ABSTRACTS / SCIENTIFIC PRESENTATIONS

Yang H, Wu J, Ebraheim N, Hashmi SZ, Newsum N, Elgafy H, Liu J. Effect and mechanism of methylprednisolone on apoptosis and TNF- α expression after spinal cord injury in rats. North American Spine Society 2011 Annual Meeting, Chicago, IL

Yang H, Zhijie Q, Ebraheim N, Hashmi SZ, Linares M, Khan M, Liu J. Augmentation of spinal fusion with intermittent PTH (1-34) in an ovariectomized rat posterolateral spinal fusion model with iliac crest bone graft. North American Spine Society 2011 Annual Meeting, Chicago, IL

Kang L, Hashmi SZ, LaMont L. Patient expectations survey for the treatment of basilar joint arthritis. American Society for Surgery of the Hand 2012 Annual Meeting, Chicago IL

Hashmi SZ, Nelson J, Ghodasara J, Nickoli M, Ashtekar A, Lee SS, Stupp S, Hsu WK, Hsu EL. A comparative evaluation of factors influencing osteoinductivity among scaffolds designed for bone regeneration. Cervical Spine Research Society 2012 Annual Meeting Chicago, IL

Hashmi SZ, Ashtekar A, Park CJ, Ghodasara J, Nelson J, Nicholas J, Nickoli M, LaBelle M, Hsu WK, Hsu EL. Investigation into the role of TCDD in smoking-mediated bone healing inhibition. Orthopaedic Research Society 2013 Annual Meeting, San Antonio TX

Hashmi SZ, Ghodasara J, Nelson J, Ashtekar A, Park CJ, Hsu WK, Hsu EL. Ovariectomy combined with low calcium diet causes osteoporosis but does not impact spine fusion rate in a rat posterolateral arthrodesis model. Orthopaedic Research Society 2013 Annual Meeting, San Antonio TX

Nelson J, Hashmi SZ, Ashtekar A, Park CJ, Nicholas J, Ghodasara J, Nickoli M, LaBelle M, Hsu WK, Hsu EL. A comparison of spinal fusion capacity of BMP-2 direct- and indirect-binding nanogel designed for bone regeneration. Lumbar Spine Research Society 2013 Annual Meeting, Chicago IL

Hashmi SZ, Nelson J, Ashtekar A, Park CJ, Nicholas J, Ghodasara J, Nickoli M, LaBelle M, Hsu WK, Hsu EL. The mechanistic role of dioxin in smoking-mediated inhibition of bone healing. Lumbar Spine Research Society 2013 Annual Meeting, Chicago IL

Hashmi SZ, Ghodasara J, Nelson J, Ashtekar A, Park CJ, Nicholas J, Nickoli M, LaBelle M, Hsu WK, Hsu EL. Ovariectomy combined with low calcium diet causes osteoporosis but does not impact spine fusion rate in a rat posterolateral arthrodesis model. Northwestern University Feinberg School of Medicine Lewis Landsberg Research Day 2013, Chicago IL. Abstract.

Nelson J, Hashmi SZ, Ashtekar A, Park CJ, Nicholas J, Ghodasara J, Nickoli M, LaBelle M, Hsu WK, Hsu EL. A comparison of spinal fusion capacity of BMP-2 direct- and indirect-binding nanogels designed for bone regeneration. North American Spine Society 2013 Annual Meeting, New Orleans, LA

Hashmi SZ, Nelson J, Ashtekar A, Park CJ, Nicholas J, Ghodasara J, Nickoli M, LaBelle M, Hsu WK, Hsu EL. Smoking-mediated inhibition of bone healing: mechanistic role of dioxin. North American Spine Society Annual Meeting 2013, New Orleans LA

Kannan A, Bellary SS, Sonn KA, Yun C, Hashmi SZ, Nelson JT, Stock S, Ashtekar A, Nickoli MS, Mendoza M, Ghodasra JH, Hsu EL, Hsu WK. Inhibition Of Osteogenic Differentiation and Spine Fusion By Dioxin, A Cigarette Smoke Constituent. Cervical Spine Research Society 2014. Abstract.

Sonn KA, Bellary SS, Hashmi SZ, Nelson JT, Nickoli MS, Ghodasra JH, Ashtekar A, Park CJ, Ghosh A, Hsu EL, Hsu WK. Establishment of a Novel Lung Cancer Spine Metastasis Model in Rodents. Orthopaedic Research Society, 2014 Annual Meeting, New Orleans LA

Bellary SS, Sonn KA, Hashmi SZ, Nelson JT, Park CJ, Ashtekar A, Nicolas J, Ghodasra JH, Nickoli MS, LaBelle M, Jain A, Hsu EL, Hsu WK. The Role of TCDD in Smoking-Mediated Bone Healing Inhibition. Orthopaedic Research Society, 2014 Annual Meeting, New Orleans LA

Mitchell SM, Yun C, Kannan AS, Sonn KA, Bellary SS, Hashmi SZ, Mendoza MC, Nickoli MS, Nelson JT, Ghodasra JH, Park C, Ghosh A, Jain A, Stock SA, Hsu EL, Hsu WK. Dioxin Exposure Inhibits Osteogenic Differentiation and Impairs Bone Healing in a Rat Spine Fusion Model. Lumbar Spine Research Society 2015 Annual Meeting, Chicago IL

Hashmi SZ, Boody B, Maslak J, McCarthy M, Patel A, Hsu WK. The Effectiveness of Bioskills Module for Simulated Lumbar Pedicle Screw Instrumentation. Lumbar Spine Research Society 2017 Annual Meeting, Chicago IL

Hashmi SZ, Butler B, Wun K, Summers H, Stover M. Accuracy of radiographic displacement measurement in pelvic ring injury. Orthopaedic Trauma Association Annual Meeting 2018, Orlando FL

Mutawakkil M, Wun K, Sherman A, Peabody T, Oyer M, Hashmi SZ, Tjong V. Comparing Clinical Outcomes Between Transosseous Patellar Suture Fixation Versus Suture Anchor Repair in the Treatment of Quadriceps Tendon Repair, Orthopaedic Trauma Association Annual Meeting 2019, Denver CO

Hashmi SZ, Butler B, Wun K, Summers H, Stover M. Accuracy of radiographic displacement measurement in pelvic ring injury. American Academy of Orthopaedic Surgeons Annual Meeting 2019, Las Vegas, NV

Zachary Rockov, Sohaib Hashmi, Amit Pujari, John Garlich, Samuel Stephenson, Charles Moon, Carol Lin, Michael Stone, Milton Little. Comparison of Mini-Fragment to Pre-Contoured Plate Fixation for Diaphyseal Clavicle Fractures. Orthopaedic Trauma Association Annual Meeting 2020

Sohaib Hashmi, Zachary Rockov, Amit Pujari, Samuel Stephenson, John Garlich, Charles Moon, Carol Lin, Michael Stone, Milton Little. Comparison of Mini-Fragment to Pre-Contoured Plate Fixation for Olecranon Fractures. Western Orthopaedic Association Annual Meeting 2020

SZ Hashmi, D Chow, J Limfueco, G Camino-Willhuber, J Chan, H Bow, M Oh, YP Lee, N Bhatia. Utility of Novel Acute Spinal Cord MRI Protocol at Level-1 Trauma Center. Cervical Spine Research Society 2022 Annual Meeting San Diego, CA

LECTURES/PRESENTATIONS

11th Annual Los Angeles Orthopaedic Trauma Symposium. Femur fractures- pearls in nailing techniques. Los Angeles, CA October, 2019

Seattle Science Foundation. Cervical and thoracic spine trauma- Case series. September 2020.

AO Spine Webinar. Degenerative Spondylolisthesis. October 2020.

Seattle Science Foundation. Cervical spine surgery complications. December 2020.

Spine by the Sea Symposium. Spine Trauma. July 2022

BOOK CHAPTERS

1. Hsu WK, **Hashmi SZ**. Biologics used in Spine Surgery for Fusion. *Spine Surgery: Current Concepts and Evidence*. April 2013.
2. Christian RA, **Hashmi SZ**, Nicolay RW. Spine embryology, growth, development and genetics. *Scoliosis Research Society E-Text*. March 2017.
3. Graham R, **Hashmi S**, Maslak J, Koski, TR. Complications of Surgery for High-Grade Spondylolisthesis. *A Case-Based Approach to Managing and Avoiding Complications*. March 2017.
4. **Hashmi SZ**, Patel AA. Revision Cervical Spine Surgery. *The Textbook of Spinal Surgery Fourth Edition*. March 2018
5. **Hashmi SZ**. Distal Femur Fractures. *Rockwood and Green's Fractures in Adults*. September 2020

EDITORIAL REVIEW

2017-Present Reviewer, Global Spine Journal

2020-Present Reviewer, Journal of American Academy of Orthopaedic Surgeons

HONORS / AWARDS

2010 Research Fellowship Grant-Arthritis Foundation New York Chapter

2010 Medical Student Summer Research Fellowship-Hospital for Special Surgery
Department of Orthopaedic Surgery New York, NY

2011 Best Poster Award - North American Spine Society 2011
Augmentation of Spinal Fusion with Intermittent PTH (1-34) in an Ovariectomized Rat
Posterolateral Spinal Fusion Model with Iliac Crest Bone Graft

2012 Gold Humanism Honor Society
GHHS honors senior medical student excellence in clinical care, leadership, compassion,
and dedication to service.

- 2013 Value Abstract Award - North American Spine Society 2013
Smoking-mediated inhibition of bone healing: mechanistic role of dioxin.
- 2013 AO Spine Fellows Research Paper Award- Lumbar Spine Research Society 2013
A comparison of spinal fusion capacity of BMP-2 direct- and indirect-binding nanogels designed for bone regeneration.
- 2014 Best Paper Award- Cervical Spine Research Society 2014
Inhibition Of Osteogenic Differentiation and Spine Fusion By Dioxin, A Cigarette Smoke Constituent
- 2021-2022 Department of Orthopaedic Surgery Kevin Armstrong Clinical Faculty Teaching Award

PROFESSIONAL COURSE PARTICIPATION

- 2015 AO Trauma Basic Principles of Fracture Management Course, Bellevue, WA,
- 2017 AO Trauma Advanced Principles of Fracture Management Course, La Jola, CA
- 2020 AO Trauma Fellows Course Las Vegas, NV
- 2020 AO Pelvic and Acetabulum Fracture Management Course, Live Internet Course

PREVIOUS WORK EXPERIENCE

- 2007 University of Toledo College of Medicine, Toledo, OH
Undergraduate Researcher
Conducted research work involving polymerase chain reaction experiments in lung cancer susceptibility study, also worked with cell culture growth, harvesting and preparing specific experiments testing effects of different agents on certain target.
- 2007-2008 Notre Dame Radiation Laboratory US Department of Energy, Notre Dame, IN
Undergradcher
Investigated nanoparticle dispersion properties in selected solvent to optimize the efficiency of semiconductor nanoparticles in light-harvesting photochemical reactions. Research focus was on fabrication of solar cells using the nanoparticles and testing quantitative results.
- 2008-2009 The Hole in the Wall Gang Camp Ashford, CT
Camp Counselor
Summer 2008- Worked as a counselor at this camp designed for terminally and seriously ill-children (ages 7-15). This position required the management of all daily activity of a group of 10 campers, with varied diagnoses ranging from HIV to cancer. There were 9 one-week long sessions through the summer, each with diverse groups of children, medically, socio-economically, ethnically, and geographically.

Summer 2009- Provided adventure-based counseling and experiential education for older population of campers in wilderness setting.

2008-2009 Kaplan Test Prep and Admissions South Bend, IN
MCAT Instructor and Tutor
Prepared students for all sections of the test: biological sciences, verbal reasoning, and writing sample and physical sciences sections of MCAT. Additionally, tutored students in these areas privately.

PROFESSIONAL MEMBERSHIPS

2014-Present American Academy of Orthopaedic Surgeons
Member

2017-Present AO Spine and Trauma North America
Member

2019-Present Orthopaedic Trauma Association
Member

CERTIFICATIONS

2019 Advanced Cardiovascular Life Support

2019 Basic Life Support

LANGAUGES

French, Urdu, Arabic