

# RONAK M. PATEL

15200 Southwest Fwy #130  
Sugar Land, TX 77478  
(832) 500-8135

10223 Broadway St Suite A  
Pearland, TX 77584  
(713) 436-3488

## EDUCATION

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08/2010 – 05/2015     **University of Texas Medical Branch (UTMB)**, Doctor of Medicine (MD)  
08/2007 – 05/2010     **Texas A&M University**, Bachelor of Science (BS) in Biomedical Science

## CLINICAL TRAINING

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08/2020 – 08/2021     **Hospital for Special Surgery**  
*Orthopaedic Sports Medicine and Shoulder Surgery Fellowship*  
06/2015 – 06/2020     **Washington University in St. Louis/Barnes-Jewish Hospital**  
*Orthopaedic Surgery Residency*

## PRACTICE

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09/2021 - present     **Fondren Orthopedic Group, LLP** (Houston, TX)  
*Attending Surgeon, Orthopedic Surgery & Sports Medicine*

## HOSPITAL AFFILIATIONS

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09/2021 - present     **Texas Orthopedic Hospital** (Houston, TX)  
*Attending Surgeon, Orthopedic Surgery & Sports Medicine*

## BOARD CERTIFICATION

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07/2020     American Board of Orthopaedic Surgery (ABOS) – Part I (passed), Board-eligible

## MEDICAL LICENSES

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New York (Active), 302086, Expires: 10/31/2021  
Texas (Active), T0597, Expires: 5/31/2023

## HONORS AND AWARDS

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**2020**     **Washington University Orthopaedics – Resident Research Award**  
2020     Arthroscopy Association of North America (AANA) Fellows and Chief Residents Course – 2<sup>nd</sup> place, Arthroscopy Simulator  
**2019**     **American Orthopaedic Association (AOA) C. McCollister Evarts Resident Leadership Forum**  
2018     Annual Meeting of the American Society for Surgery of the Hand (ASSH) - Annual Meeting Scholarship  
2017     Orthopaedic Trauma Association (OTA) Fall Residents Comprehensive Fracture Course Scholarship  
2015     Dean's Award for Research Excellence, UTMB  
**2014**     **Alpha Omega Alpha (AOA) - Junior selection**  
**2014**     **Gold Humanism Honor Society**  
2014     William Todd Midgett, MD Award for Superior Clinical Practice, UTMB

2014	Joseph B. Kass Award for Research, UTMB
2014	Colin Maclean Presidential Scholarship, UTMB
2013	National American College of Physicians (ACP) – Clinical Vignette Finalist
2011	Bioethics Bowl, UTMB - 1 <sup>st</sup> place
2010	Award in Gross Anatomy, UTMB

## TEAM COVERAGE

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2020 – 2021	<b>Brooklyn Nets (NBA)</b>
2020 – 2021	<b>Iona College (NCAA Division I Sports)</b>
2019	Lindenwood University (NCAA Division I Women’s Hockey)
2018 – 2019	<b>St. Louis Blues (NHL)</b>
2018 – 2019	Washington University in St. Louis Athletics (NCAA Division III Football)
2015 – 2019	St. Louis-area High School Football

## PUBLICATIONS

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1. **Patel RM**, Wright-Chisem J, Williams RJ. Anteriorizing Tibial Tubercle Osteotomy for Patellofemoral Cartilage Lesions Arthroscopy Techniques. *Arthrosc Tech* (accepted)
2. **Patel RM**, Tarkunde Y, Wall LB, Schimizzi G, Goldfarb CA. Long-Term Outcomes of Operatively Treated Medial Epicondyle Fractures in Pediatric and Adolescent Patients. *Journal of Hand Surgery Global Online*. 2021 May;3(3):124-128.
3. **Patel RM**, Castile RM, Jenkins MJ, Lake SP, Brophy RH. Microstructural and Mechanical Properties of the Anterolateral Ligament of the Knee. *Am J Sports Med*. 2021 Jan;49(1):172-182.
4. **Patel RM**, Miller AN. Successful Fixation of a Tuberculous Nonunion of the Humeral Shaft: A Case Report. *JBJS Case Connect*. 2019 Jan-Mar;9(1):e19.
5. **Patel RM**, Brophy RH. Anterolateral Ligament of the Knee: Anatomy, Function, Imaging, and Treatment. *Am J Sports Med*. 2018 Jan;46(1):217-223.
6. **Patel RM**, Liu D, Gonzaga-Jauregui C, Jhangiani S, Lu JT, Sutton VR, Fernbach SD, Azamian M, White L, Edmond JC, Paysse EA, Belmont JW, Muzny D, Lupski JR, Gibbs RA, Lewis RA, Lee BH, Lalani SR, Campeau PM. An exome sequencing study of Moebius syndrome including atypical cases reveals an individual with CFEOM3A and a TUBB3 mutation. *Cold Spring Harb Mol Case Stud*. 2017 Mar;3(2):a000984.
7. Johnson CC, Garcia GH, Liu JN, Stepan JG, **Patel RM**, Dines JS. Internet resources for Tommy John injuries: what are patients reading? *J Shoulder Elbow Surg*. 2016 Dec;25(12):e386-e393.
8. **Patel RM**, Nagamani SC, Cuthbertson D, Campeau PM, Krischer JP, Shapiro JR, Steiner RD, Smith PA, Bober MB, Byers PH, Pepin M, Durigova M, Glorieux FH, Rauch F, Lee BH, Hart T, Sutton VR. A cross-sectional multicenter study of osteogenesis imperfecta in North America - results from the linked clinical research centers. *Clin Genet*. 2015 Feb;87(2):133-40.
9. Garcia GH, Taylor SA, Dy CJ, Christ A, **Patel RM**, Dines JS. Online resources for shoulder instability: what are patients reading? *J Bone Joint Surg Am*. 2014 Oct 15;96(20):e177.
10. Ruan MZ, **Patel RM**, Dawson BC, Jiang MM, Lee BH. Pain, motor and gait assessment of murine osteoarthritis in a cruciate ligament transection model. *Osteoarthritis Cartilage*. 2013 Sep;21(9):1355-64.
11. Fabricant PD, Dy CJ, **Patel RM**, Blanco JS, Doyle SM. Internet search term affects the quality and accuracy of online information about developmental hip dysplasia. *J Pediatr Orthop*. 2013 Jun;33(4):361-5.
12. Lee AT, Schrupf MA, Choi D, Meyers KN, **Patel R**, Wright TM, Hotchkiss RN, Daluiski A. The influence of gravity on the unstable elbow. *J Shoulder Elbow Surg*. 2013 Jan;22(1):81-7.
13. Dy CJ, Taylor SA, **Patel RM**, McCarthy MM, Roberts TR, Daluiski A. Does the quality, accuracy, and readability of information about lateral epicondylitis on the internet vary with the search term used? *Hand (N Y)*. 2012 Dec;7(4):420-5.

14. Dy CJ, Taylor SA, **Patel RM**, Kitay A, Roberts TR, Daluiski A. The effect of search term on the quality and accuracy of online information regarding distal radius fractures. *J Hand Surg Am*. 2012 Sep;37(9):1881-7.
15. Efebera YA, Qureshi SR, Cole SM, Saliba R, Pelosini M, **Patel RM**, Koca E, Mendoza FL, Wang M, Shah J, Alousi A, Hosing C, Popat U, Kebriaei P, Anderlini P, Khouri IF, Champlin R, Giralt S, Qazilbash MH. Reduced-intensity allogeneic hematopoietic stem cell transplantation for relapsed multiple myeloma. *Biol Blood Marrow Transplant*. 2010 Aug;16(8):1122-9.

### **PUBLICATIONS (In Progress)**

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1. Nawabi NH, **Patel RM**, Ouanezar H, Jahandar H, Wang T, Bishop M, Amirtharaj M, Wickiewicz T, Imhauser C, Pearle A. Lateral Extra-Articular Augmentation of the Knee: A Biomechanical Computational Study. (Manuscript submitted to *AJSM*)
2. Kia M, Schafer K, **Patel RM**, Wickiewicz TL, Nawabi, DH, Pearle, AD, Imhauser, CW. A multibody computational model predicts lateral instability in the Anterior Cruciate Ligament-deficient knee in response to multiplanar torques. (Manuscript in preparation for *Journal of Biomechanics*)
3. **Patel RM**, Selley RS, Burger JA, Dooley MS, Rinzler J, Buza S, Kelly BT, Nawabi DH. Introducing the Impingement Index: A study of the combined effect of alpha angle and femoral version on outcomes after hip arthroscopy for femoral acetabular impingement. (Manuscript in preparation for *AJSM*)
4. Marom, N, **Patel RM**, Jahandar, H, Imhauser, CW, Wickiewicz TL, Nawabi, DH, Pearle, AD. The Effect of Lateral Extra-Articular Tenodesis on Medial and Lateral Menisci Loading in Response to Simulated Tests of the Pivot Shift and Anterior Laxity. (Manuscript in preparation for *AJSM*)
5. Ahsan ZS, Razu S, Marom N, **Patel RM**, Jahandar H, Zayyad Z, Imhauser CW, Wickiewicz TL, Nawabi DH, Pearle AD. Biomechanical Function of the Meniscomfemoral Ligaments: A Computational Study. (Manuscript in preparation for *AJSM*)
6. Ahsan, ZS, Marom, N, **Patel RM**, Jahandar, H, Imhauser, CW, Wickiewicz TL, Nawabi, DH, Pearle, AD. Lateral Extra-articular Tenodesis Provides Supraphysiological Restraint to Internal Tibial Rotation: *In vitro* Biomechanical Assessment. (Manuscript in preparation for *CORR*)
7. **Patel RM**, Wright-Chisem J, Nawabi DH. Osteochondral Allograft Transplantation with Depth Precision. (Manuscript in preparation for *Arthroscopy Techniques*)
8. **Patel RM**, Carey EG, Nawabi DH. Opening Wedge High Tibial Osteotomy with Patient-specific Wedge Guide. (Manuscript in preparation for *Arthroscopy Techniques*)
9. Day MA, Carey EG, **Patel RM**, Nawabi DH. Medial Closing Wedge Distal Femoral Osteotomy with Patient-Specific Instrumentation for Valgus Malalignment (Manuscript in preparation for *Arthroscopy Techniques*)
10. **Patel RM**, Allen AA. Cricket-related Sports Injuries. (Manuscript in preparation for *AJSM*)
11. Marom N, **Patel RM**, Ouanezar H, Amirtharaj M, Tao M, Jahandar H, Imhauser CW, Nawabi DH, Wickiewicz, Pearle AD. Mechanics of the Knee and Hip Joints during the Pivot Shift Test. (Manuscript in preparation for *AJSM*)

### **PODIUM PRESENTATIONS**

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1. Nawabi DH, **Patel RM**, Selley RS, Burger JA, Dooley MS, Rinzler J, Buza S, Kelly BT, Nawabi DH. Introducing the Impingement Index: A study of the combined effect of alpha angle and femoral version on outcomes after hip arthroscopy for femoral acetabular impingement. **AOSSM Annual Meeting, July 2021.**
2. **Patel RM**, Selley RS, Burger JA, Dooley MS, Rinzler J, Buza S, Kelly BT, Nawabi DH. Introducing the Impingement Index: A study of the combined effect of alpha angle and femoral version on

outcomes after hip arthroscopy for femoral acetabular impingement. **HSS Fellows Research Symposium. June 2021**

3. **Patel RM**, Tarkunde Y, Schimizzi G, Goldfarb CA. Long-Term Outcomes of Operatively Treated Medial Epicondyle Fractures in Pediatric Patients. **AAOS Annual Meeting, Orlando, FL. March 2020.**
4. **Patel RM**, Jenkins MJ, Castile RM, Lake SP, Brophy RH. Microstructural and Mechanical Properties of the Anterolateral Knee Capsule Complex. **ORS 2019 Annual Meeting.**
5. Johnson CC, Garcia GH, Liu JN, Stepan JG, **Patel RM**, Dines JS. Internet Resources for Tommy John Injuries: What are patients reading? Eastern Orthopaedic Association. October 2016.
6. **Patel RM**, Nagamani SC, Cuthbertson D, Campeau PM, Krischer JP, Shapiro JR, Steiner RD, Smith PA, Bober MB, Byers PH, Pepin M, Durigova M, Glorieux FH, Rauch F, Lee BH, Hart T, Sutton VR. A cross-sectional study multicenter study of osteogenesis imperfecta in North America. 2<sup>th</sup> International Conference on Osteogenesis Imperfecta, Wilmington, DE. October 2014.
7. **Patel RM**, Nagamani SC, Mullins M, Cuthbertson D, Campeau PM, Krischer JP, Shapiro JR, Steiner RD, Smith PA, Bober MB, Byers PH, Pepin M, Durigova M, Glorieux FH, Rauch F, Lee BH, Smith T, Sutton VR. Cross-sectional multicenter study of patients with osteogenesis imperfecta in North America. 2014 GWN Eggers Conference, Galveston, TX.
8. **Patel RM**, Cuthbertson D, Krischer J, Shapiro JR, Smith P, Glorieux F, Lee B, Sutton VR, OI LCRC. A Multicenter Longitudinal Study of Osteogenesis Imperfecta: Baseline Observations. **Annual Meeting of the AAOS, New Orleans, NO. March 2014.**
9. **Patel RM**, Ruan MZC, Dawson BC, Jiang MM, Lee BH. Pain, motor, and gait assessment of murine osteoarthritis in a cruciate ligament transection model. 54<sup>th</sup> Annual National Student Research Forum, Galveston, TX. April 2013.
10. Suri JS, de Boer M, **Patel RM**, Aronson JF. Tobacco Use And Perspectives Among School-Aged Children. 54<sup>th</sup> Annual National Student Research Forum, Galveston, TX. April 2013.
11. Fabricant PD, Dy CJ, **Patel RM**, Blanco JS, Doyle SM. Internet search term affects the quality and accuracy of online information about developmental hip dysplasia. **Annual Meeting of the AAOS, Chicago, IL. March 2013.**
12. Dy CJ, Taylor SA, **Patel RM**, Kitay A, Roberts TR, Daluiski A. The quality and accuracy of distal radius fracture information online varies with the search term used. New York Society for Surgery of the Hand Resident and Fellow Research Night, New York, NY. May 2012.

## **POSTER PRESENTATIONS**

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1. **Patel RM**, Jenkins MJ, Castile RM, Lake SP, Brophy RH. Microstructural and Mechanical Properties of the Anterolateral Knee Capsule Complex. **AOSSM Annual Meeting, July 2020 (Virtual).**
2. **Patel RM**, Adelani MA. Performance of the Patient Reported Outcomes Measurement Information System in End-stage Hip Osteoarthritis. **Annual Meeting of the AAOS, Orlando, FL. March 2020 (Virtual).**
3. **Patel RM**, Jenkins MJ, Castile RM, Lake SP, Brophy RH. Microstructural and Mechanical Properties of the Anterolateral Knee Capsule Complex. **Annual Meeting of the AAOS, Orlando, FL. March 2020 (Virtual).**
4. Minaie A, Bernholt D, **Patel R**, Wright RW, Matava MJ, Nepple JJ. Normative PROMIS Scores in Healthy Collegiate Athletes: Establishing a target for return to normal function. **AOSSM Annual Meeting, July 2019.**
5. **Patel RM**, Ruan MZ, Dawson B Erez A, Keller B, Lee BH. The Function of Argininosuccinate Lyase in Osteoarthritis. **ORS Annual Meeting, New Orleans, NO. March 2014.**
6. **Patel RM**, Patel MR. Early-age polyarthritis, dysphasia, and deafness: a “Stickler” situation. 19<sup>th</sup> Annual National American College of Physicians (ACP) Medical Student Abstract Competition, San Francisco, CA. April 2013.

7. **Patel RM**, Fabricant PD, Dy CJ, Blanco JS, Doyle SM. Internet search term affects the quality and accuracy of online information about developmental hip dysplasia. Preventive Medicine & Community Health, Public Health Symposium, Galveston, TX. April 2013
8. Suri JS, de Boer M, **Patel RM**, Aronson JF. Tobacco Use And Perspectives Among School-Aged Children. Preventive Medicine & Community Health, Public Health Symposium, Galveston, TX. April 2013
5. **Patel RM**, Jain M, Sutton VR, Lu JT, Gibbs RA, Campeau PM, Lee BH. A de novo mutation in ptpn11 in a patient with ellis van creveld syndrome. Baylor College of Medicine, Department of Molecular and Human Genetics Retreat, Galveston, TX. January 2013.
6. Liu D, Gonzaga-Jauregui CG, **Patel RM**, Lu JT, Fernbach SD, Azamian M, Zapata G, Hernandez P, Lupski JR, Sutton VR, Probst F, White L, Gibbs RA, Edmond JC, Paysse EA, Lewis RA, Lee BH, Belmont JW, Lalani SR, Campeau PM. Unraveling the genetic basis of Moebius syndrome and CHD7-negative CHARGE syndrome. Baylor College of Medicine, Department of Molecular and Human Genetics Retreat, Galveston, TX. January 2013.
7. **Patel RM**, Fabricant PD, Dy CJ, Blanco JS, Doyle SM. Internet search term affects the quality and accuracy of online information about developmental hip dysplasia. 10<sup>th</sup> Annual American Medical Association (AMA) Research Symposium, Honolulu, HI. November 2012.
8. Dy CJ, Taylor SA, **Patel RM**, McCarthy MM, Roberts TR, Daluiski A. Does the quality, accuracy, and readability of information about lateral epicondylitis on the internet vary with the search term used? 67th ASSH Meeting, Chicago, IL. September 2012.
9. **Patel R**, Lee A, Schrupf M, Choi D, Meyers K, Wright T, Hotchkiss R, Daluiski, A. The supine, gravity-assisted overhead motion protocol minimizes ulnohumeral distraction in unstable elbows. 9<sup>th</sup> Annual AMA Research Symposium, New Orleans, LA. November 11, 2011.
10. **Patel R**, Lee A, Choi D, Meyers K, Hotchkiss R, Daluiski, A. Biomechanical analysis of gravity assisted versus conventional rehabilitation protocols for simple elbow dislocations. Medical Student Summer Research Program (MSSRP) Poster Session, Galveston, TX. June 24, 2011.

#### **BOOK CHAPTERS**

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1. **Patel RM**, Brophy RH. Ch. 19: Etiology of Anterior Knee Pain in the Adult, in **The Adult Knee, Second Edition, 2020**. Edited by Rubash H, Rosenberg A, Barrack R, Bediar H, Levine B, and Huddleston J.

#### **DEPARTMENTAL PRESENTATIONS**

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1. **Patel RM**, Day M, Rauck R, Kibler B. Shoulder Exam with MRI Correlation. Annual HSS Sports Medicine Symposium, New York, NY. May 2021
2. **Patel RM**, Ranawat AS. Infection After ACL-R. HSS, Sports Medicine Institute Grand Rounds, New York, NY. February 2021.
3. **Patel RM**, Williams RJ. Cartilage II: Whole-tissue Knee Grafts. HSS, Sports Medicine Institute Core Curriculum, New York, NY. February 2021.
4. **Patel RM**, Marx RG. ACL I: Graft Options. HSS, Sports Medicine Institute Core Curriculum, New York, NY. September 2020.
5. **Patel RM**. Massive Rotator Cuff Tears: Bridging the Gap. Washington University Orthopaedics, Department Grand Rounds, St. Louis, MO. March 2020.
6. **Patel RM**. Platelet-rich Plasma and Stem Cell Injections: 2017 Update. Washington University Orthopaedics, Sports Medicine Grand Rounds, St. Louis, MO. March 2017.

#### **RESEARCH GRANTS**

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2020-2021                      The Louis and Rachel Rudin Foundation Grant (HSS, Co-investigator)

- “The Efficacy of Tranexamic Acid on Meniscal Repair in a Rabbit Model”
  - Funded: \$20,000
- 2018-2019 Mid-America Orthopaedic Association (MAOA) Multipurpose Resident Grant
- “Microstructural Properties of the Anterolateral Knee Capsule Complex”
  - Funded: \$4,000
- 2013-2014 Alpha Omega Alpha (AOA) Carolyn L. Kuckein Student Research Fellowship
- “The Function of Argininosuccinate Lyase in Osteoarthritis”
  - Funded: \$6,000

## **LEADERSHIP AND COMMITTEES**

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- 2021 – Present **AOSSM**, Technology Committee, Member
- 2019 - 2020 **Digital Curriculum Committee Member**, Washington University Orthopedics
- 2015 - 2020 **Resident Education Committee, Class Representative**, Washington University Orthopedics
- 09/2016 **Resident Moderator**, Orthopaedic Research and Education Foundation (OREF) and ORS Resident Research Symposium
- 2007 - 2015 **Lead Regional Coordinator**, Bochasanwasi Shri Akshar Purushottam Swaminarayan Sanstha (BAPS) Youth Activities, National Team
- National role included development and execution of a convention in 2013 for 2000+ youth from around the world, analyzing and modifying projects before distribution across the US, editing syllabi for weekly youth assemblies, and attending annual national meetings
  - Regional role included overseeing youth activities in Denver, Lubbock, San Antonio, and Houston, mentoring youth, organizing and executing annual meetings, and conducting monthly video conference calls
- 2010 - 2015 **President** (2011-2012), Orthopaedic Student Society, UTMB

## **EDUCATIONAL COURSES**

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- 05/2021 Arthrex Sports Medicine Fellows Course
- 07/2020 AOSSM Virtual Fellows Course
- 02/2020 AANA 3<sup>rd</sup> Annual Fellows and Chief Residents Course
- 01/2020 St. Louis Hip Skills Hands-On Cadaver Course: Hip Arthroscopy and Preservation Procedures
- 05/2018 AAOS Clinician-Patient Communication to Improve Patient Outcomes Workshop, St. Louis, MO
- 02/2018 Ganga Hospital Microsurgery Training Institute, Microsurgery Course, India
- 10/2017 OTA Comprehensive Fracture Course, Vancouver, BC

## **PROFESSIONAL ORGANIZATIONS**

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- 2020 – Present AOSSM, Candidate Member
- 2015 - Present AAOS, Candidate Member
- 2021 – Present International Society for Hip Arthroscopy (ISHA), Member
- 2021 – Present Texas Medical Association (TMA)
- 2021 – Present Harris County Medical Society (HCMS)
- 2019 - 2021 AANA, Fellow Member
- 2018 - 2019 ORS, Associate Member
- 2014 - 2015 Sigma Xi: The Scientific Research Society, Associate Member

## **VOLUNTEER EXPERIENCE**

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- 2003 - present      **Volunteer**, BAPS Charities
- Participate in annual health fairs, walkathons, and blood drives
- 7/2015 – 6/2020      **Volunteer**, Shri Swaminarayan Temple – St. Louis, Bridgeton, MO
- Participate in various weekly (Sunday) activities such as serving food, cleaning, presentations in youth sessions, etc.
  - Aid with coordination and logistics of annual Hindu festivals
- 2002 - 2015      **Volunteer**, Shri Swaminarayan Temple - Houston, Stafford, TX
- Participated in various weekly (Sunday) activities such as serving food, cleaning, temple tours, etc.
  - Supervised kitchen department for a gathering of 1500+ people for a 10-day convention
  - Assisted with the construction of a traditional marble Hindu temple in Stafford, TX for 3 months
- 03/2014      **Virtual Moderator**, Orthopedic Research Society (ORS) Annual Meeting, New Orleans, LA
- Relayed questions from the audience to session presenters during various sessions
- 12/2013 – 01/2014      **Volunteer**, Navrang Orthopedic Hospital, Vadodara, Gujarat (India)
- Examined and treated patients for 4-weeks with musculoskeletal complaints, changed dressings daily for hospitalized patients, and assisted in surgeries at a 40-bed orthopaedic hospital
- 6/2007      **Volunteer**, Medical Wings International
- Medical mission trip to Delhi and Mandi Khera, India

## **WORK EXPERIENCE**

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2011-2012      Tutor, UTMB School of Medicine, Galveston, TX

## **PERSONAL INTERESTS**

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Cars, football, basketball, beta testing technology, travel, food & dining, classical Indian drums (*tabla*)