

CURRICULUM VITAE

Rajiv Rajani

GENERAL INFORMATION

PERSONAL DATA:

Date of Preparation: 07/13/2015

Address: UT Health Science Center at San Antonio
Department of Orthopaedics
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San Antonio, TX 78229

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EDUCATION:

<u>Year</u>	<u>Degree</u>	<u>Discipline</u>	<u>Institution/Location</u>
2005	MD	Distinction in Research	University of Michigan Medical School, Ann Arbor, MI
2000	BS	Economics and Biology	University of Michigan, Ann Arbor, MI

TRAINING:

Fellowship

<u>Year</u>	<u>Discipline</u>	<u>Institution/Location</u>
2010-2011	Orthopaedic Oncology	University of Florida - Dept. of Orthopaedic Surgery, Gainesville, FL

Residency

<u>Year</u>	<u>Discipline</u>	<u>Institution/Location</u>
2005-2010	Orthopaedic Surgery	Emory University - Dept. of Orthopaedic Surgery, Atlanta, GA

ACADEMIC APPOINTMENTS:

01/2014 - Present	Assistant Professor and Assistant Residency Program Director for Orthopaedics	The University of Texas Health Science Center at San Antonio, Department of Orthopaedics, San Antonio, TX
01/2014 - Present	Assistant Program Director	UTHSCSA, Department of Orthopaedics, San Antonio, TX
11/2011 - 01/2014	Assistant Professor	UT Health Science Center at San Antonio, Department of Orthopaedics, San Antonio, TX

08/2010 - 07/2011	Fellow and Musculoskeletal Oncology	University of Florida - Gainesville, Department of Orthopaedics, Gainesville, FL
07/2005 - 06/2010	House Physician and Resident	Emory University, Department of Orthopaedics, Atlanta, GA

NON-ACADEMIC APPOINTMENTS:

06/2009 - 06/2010	Assistant Team Physician	Georgia Tech University, Atlanta, GA
01/2003 - 01/2004	Research Assistant	University of Michigan, Ann Arbor, MI
	<i>Details: Orthopaedic Research Laboratories - Worked on multiple studies, primary molecular based. Used techniques such as RT-PCR, RNA extraction, animal surgery, gene delivery, and electrophoresis</i>	
01/2001 - 01/2003	Research Assistant	University of Michigan, Ann Arbor, MI
	<i>Details: Radiology Department-Musculoskeletal Division - Worked on data collection for patient review. Resulted in 5-6 publications for department after reviewing over 1000 patients files</i>	
01/2001 - 01/2003	Research Assistant	University of Michigan, Ann Arbor, MI
	<i>Details: School of Literature, Science, and Arts - Wrote senior thesis on the impact of sanctions placed on India for developing nuclear weapons on the primary Indian stock market.</i>	

CERTIFICATION AND LICENSURE:

Board Certification

<u>Description/Agency</u>	<u>Status</u>	<u>Date Acquired</u>	<u>Number</u>	<u>Expiration</u>
American Board of Orthopaedic Surgery	Certified	08/2013	n/a	08/2023

Certification

<u>Description/Agency</u>	<u>Status</u>	<u>Date Acquired</u>	<u>Number</u>	<u>Expiration</u>
BLS - American Heart Association	Certified	03/2011	n/a	03/2017

License to Practice

<u>Description/Agency</u>	<u>Status</u>	<u>Date Acquired</u>	<u>Number</u>	<u>Expiration</u>
Medicine - Texas Medical Board	Certified	05/2011	N9624	05/2016

Registration

<u>Description/Agency</u>	<u>Status</u>	<u>Date Acquired</u>	<u>Number</u>	<u>Expiration</u>
Controlled Substance Registration - DEA	Certified	07/2011	FR2693821	04/2017

Texas Controlled Substances
Registration - DPS

Certified 06/2011 70181546 05/2016

HONORS AND AWARDS:

07/2015 Texas Superdoctor Rising Star 2015

06/2014 Veritas Faculty: One of 20 faculty at UTHSCSA selected to mentor medical students from beginning to end of medical school. One of only two non internal medicine faculty to be selected.

05/2012 Emerging Leaders Program Member: Accepted to AOA Emerging Leaders Program

06/2005 Graduated Medical School with Distinction in Research: Performed multiple studies during medical school to meet criteria to graduate with an additional distinction.

University of Michigan Honors List

Member of Golden Key National Honors Society

TEACHING

COURSE BASED TEACHING:

<u>Date</u>	<u>Course Name</u>	<u>Level</u>	<u>Role</u>
11/2011 - 11/2025	CIRC5001 MEDICINE- BEHAVIOR AND SOCIETY LONGITUDINAL MODULE	Graduate	Preceptor
11/2011 - 11/2015	ORTO4012 Orthopaedic Musculoskeletal Oncology	Graduate	Course Director
11/2011 - 11/2015	ORTO4012 Orthopaedic Musculoskeletal Oncology	Resident	Course Director

OTHER TEACHING:

Group Instruction

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
12/2013 - 12/2013	Physical Examination Skills for Musculoskeletal Exam	UTHSCSA	60

Reviewed and demonstrated exam of the knee to multiple small groups. Total students

approximately 60

Individual Instruction

<u>Date</u>	<u>Description</u>	<u>Institution</u>	<u># Students</u>
08/2012 - 08/2014	Longitudinal Preceptorship Program <i>Preceptor for Medical Students: Isaac Kim, Shah Khan, Lauren Rosenblatt, Ryan Mechacha, and Janitzio Guzman, Blair Lehman.</i>	UTHSCSA	5
01/2004 - 01/2005	Tutor	University of Michigan Medical School	

RESEARCH

EXPERTISE:

Bone and Soft Tissue Sarcoma Management - Fellowship trained in Orthopaedic Oncology. Surgically trained to manage Bone and Soft Tissue Benign and Malignant Soft Tissue Tumors.

Management of Metastatic disease to the Skeleton - Management of metastatic disease to the skeleton and soft tissues of the extremities

PROJECTS:

Clinical Research

06/2014-
12/2014 Implant Selection Criteria for Early Career Orthopaedic Oncologists, A multi-center review of the criteria for implant selection in limb salvage surgery of the lower extremity.

Research Article

01/2014-
12/2015 Selection criteria for medical students matching into Orthopaedics, Reviewing what factors matter to students as they apply for orthopaedic surgery residencies

01/2014-
12/2014 Management of patients with organ transplantation and orthopaedic condition, A review article - Submitted to JAAOS

02/2012-
12/2014 The Business Case for Culturally Competent Care in Orthopaedic Surgery, White Paper for AAOS Diversity Advisory Board

01/2010-
01/2014 An isolated Gunshot to the extremity leading to necrotizing fasciitis, Case report

PUBLICATIONS: (indicates Peer Reviewed)**

Book Chapter

1. Quinn RH, Rajani R. Disease specific considerations In: OKU Tumors 3. Chapter in Orthopaedic Knowledge Update Musculoskeletal Tumors 3: 2013.

Journal Article

1. Rajani R, Wise B, Oswald T, Roberson J. Epiphysiolysis of the femoral neck due to closed reduction of an adolescent hip dislocation with a 4-year follow-up: a case report and review of the literature. J Pediatr Orthop B 2015 Jan;24(1):40-45.
- * 2. Kim I, Rajani R. Oncogenic Osteomalacia From a Primary Phosphaturic Mesenchymal Tumor of the Toe: A Case Report. Journal of Foot and Ankle Surgery 2014 Nov
- * 3. Rajani R. Giant Cell Tumors of the Foot and Ankle Bones: High Recurrence Rates After Surgical Treatment Journal of Foot and Ankle Surgery 2014 Oct
- * 4. Miller BJ, Avedian R, Rajani R, Leddy L, White J, Cummings J, , Balach T, Macdonald K. What Is the Use of Imaging Before Referral to an Orthopaedic Oncologist? A Prospective, Multicenter Investigation CORR 2014 Apr
- * 5. Miller BJ, Rajani R, Leddy L, Soni-Carmody E, White J. How Much Tumor Surgery Do Early-Career Orthopaedic Oncologists Perform CORR 2014
- * 6. Rajani R, Gibbs CP. Treatment of Bone Tumors Surg Pathol Clin 2012 Mar;5(1):301-318.
- * 7. Dallas J, Imanirad I, Rajani R, Dagan R, Subbiah S, Gaa R, Dwarica WA, Ivey AM, Zlotnicki RA, Malyapa R, Indelicato DJ, Scarborough MT, Reith JD, Gibbs CP, Dang LH. Response to sunitinib in combination with protein beam radiation in a patient with chondrosarcoma: a case report. J Med Case Reports 2012 Jan;6:41-41.
8. Rajani R, Enneking WF. Historical Review of the Limb Salvage Functional Scoring System. ISOLS Annual Mtg Book 2011
9. Taylor DK, Meganck JA, Terkhorn S, Rajani R, Naik A, O'Keefe RJ, Goldstein SA, Hankenson KD. Thrombospondin-2 influences the proportion of cartilage and bone during fracture healing. J Bone Miner Res 2009 Jun;24(6):1043-1054.
- * 10. Morag Y, Jacobson JA, Shields G, Rajani R, Jamadar DA, Miller B, Hayes CW. MR arthrography of rotator interval, long head of the biceps brachii, and biceps pulley of the shoulder. Radiology 2005 Apr;235(1):21-30.
- * 11. Tagil M, Rajani R, Bahra P, Cao X, Fischer D, Thompson R, Astrand J, Aspenberg P, Hankenson KD. Expression of mechanosensitive, prochondrogenic genes: A Link between mechanical stimulation and tissue differentiation. J Bone Miner Res 2005;20:S63-S63.
- * 12. Shields GS, Jacobson JA, Rajani R, Patel S, Jamadar DA, Kuhn JE, Hayes CW. MR arthrography of the Shoulder: Review of 81 Consecutive Subjects Supplement to American Journal of Roentgenology 2004;180:100

Other

1. Rajani R. AAOS Information Statement on Obesity AAOS 2014 Feb

PRESENTATIONS:

- 04/2015 The Evolution of Orthopaedic Applicant Preferences: From Application to Rank Lists, Texas Orthopaedic Association Annual Meeting, TOA, Austin, TX (Co-Presenter)
- 04/2015 Denosumab Therapy for Giant Cell Tumor of Bone Pulmonary Metastasis, Passport UTHSCSA, UTHSCSA GME, San Antonio, TX (Co-Author)
- 10/2014 Disparities among limb-salvage rates in pediatric sarcoma patients, American Association for Cancer Research, The Science of Cancer Health Disparities in Racial/Ethnic Minorities and the Medically Underserved, San Antonio, TX (Co-Author)
- 06/2014 Practice Patterns of Early-Career Musculoskeletal Oncologists, AOA/COA, Council of Residency Directors (CORD), AOA, Montreal, Canada (Sole Presenter)
- 06/2014 Culturally Competent Care for the Orthopaedic Surgeon, Emory Kelly Day 2014, Emory University, Atlanta, GA (Invited Speaker)
- 06/2014 The Value of Cultural Competency in Orthopaedic Residency, AOA/COA, CORD, Montreal, Canada (Co-Presenter)
- 04/2014 Ethnic and gender disparities among limb-salvage rates in pediatric sarcoma patients, American Radium Society, St. Thomas, Virgin Islands (Co-Author)
- 04/2014 Bone tumor iBook: an interactive, mobile resource for orthopedic residents, UT 10th Annual Innovations in Health Science Education, Austin, TX (Co-Presenter)
- 01/2014 Bone Sarcomas: An Orthopaedist's Perspective, Pediatrics Grand Rounds, Department of Pediatrics, UTHSCSA, San Antonio, TX (Invited Speaker)
- 12/2013 Bone and Soft Tissue Tumors of the Foot and Ankle, International External Fixation Symposium, Dept of Podiatry, UTHSCSA, San Antonio, TX (Invited Speaker)
- 10/2013 Practice Patterns of Early-Career Musculoskeletal Oncologists, MSTs 2013, Oncology, MSTs, San Francisco, CA (Co-Author)
- 06/2013 Bone Tumors, UTHSCSA Family Medicine Grand Rounds, Family Medicine, UTHSCSA Family Medicine, San Antonio, TX (Invited Speaker)
- 05/2013 Soft Tissue Tumors, UTHSCSA Family Medicine Grand Rounds, UTHSCSA Family Medicine,

San Antonio, TX (Sole Presenter)

- 01/2013 Limb Salvage for Bone Tumors, Course on Tumors and Bone Cancers, Orthopaedic Surgery, Universidad de Monterrey, Monterrey, Mexico (Invited Speaker)
Details: *Invited speaker for Course on bone tumors and malignancies and the treatment.*
- 01/2013 Soft Tissue Sarcomas, Current Treatment, Course on Tumors and Bone Cancers, Orthopaedic Surgery, Universidad de Monterrey, Monterrey, Mexico (Keynote Speaker)
Details: *Invited keynote speaker for treatment of Soft Tissue Sarcomas.*
- 12/2012 Culturally Competent Care: An Orthopaedists Responsibility, Grand Rounds-UTHSCSA, Department of Orthopaedics, UTHSCSA, San Antonio, TX (Invited Speaker)
- 12/2012 Soft Tissue Sarcomas: It's not a Lipoma!, Methodist Hospital Evening Lecture, Methodist Hospital, San Antonio, TX (Keynote Speaker)
- 11/2012 Culturally Competent Care, Grand Rounds-Western Michigan University, Department of Orthopaedics, Western Michigan University, Kalamazoo, MI (Invited Speaker)
- 04/2012 Soft Tissue Sarcomas Revisited, UTHSCSA-Grand Rounds, Department of Orthopaedics, San Antonio, TX (Sole Presenter)
- 02/2012 Limb Sparing techniques in tumor surgery about the Knee, UTHSCSA-Grand Rounds, Department of Orthopaedics, San Antonio, TX (Sole Presenter)
- 10/2011 High Recurrence Rates for Giant Cell Tumor of the Bone in the Foot and Ankle, MSTs/CTOS 2011, Podium Presentation, MSTs/CTOS, Chicago, IL (Sole Presenter)
- 04/2011 Simultaneous Parathyroidectomy and Brown Tumor Excision, COSM, Poster Presentation, COSM, Chicago, IL (Co-Presenter)
- 01/2011 An Unusual Presentation of Three Separate, Asymptomatic Malignancies, MSTs-CTOS, Poster Presentation, MSTs-CTOS, Chicago, IL (Co-Presenter)
- 01/2011 Pigmented Villonodular Synovitis as an Unusual Cause of Knee Instability: A Case Report., MSTs-CTOS, Poster Presentation, MSTs-CTOS, Chicago, IL (Co-Presenter)
- 09/2010 Short Term Outcomes of Osteonecrosis of the Knee in Young Leukemia Patients, MSTs 2010, Bone Tumors, MSTs, Philadelphia, PA (Co-Presenter)
- 10/2009 Prospective, Randomized Trial of Cancellous Chips with Embedded Mesenchymal Stem Cells versus Cancellous Chips and Demineralized Bone Matrix for Grafting of Benign Bone Lesions, MSTs 2009, Benign Bone Tumors, MSTs/CTOS, Boston, MA (Co-Presenter)

- 10/2008 Risk factors for transfusion during acetabular surgery, Eastern Orthopaedic Association, Podium Presentation, Eastern Orthopaedic Association, Las Vegas, NV (Sole Presenter)
- 02/2005 Loading chamber analysis by gene microarray in rats: a representation for fracture healing, Orthopaedic Research Society, Poster Presentation, Orthopaedic Research Society, Washington, DC (Co-Presenter)
- 01/2005 Fracture healing in Thrombospondin-2 null mice, Orthopaedic Research Society, Podium Presentation, Orthopaedic Research Society, Washington, DC
- 12/2003 MR arthrography of the rotator interval: biceps brachii long head and biceps pulley of the shoulder, 89th Scientific Assembly and Annual Meeting of RSNA, Poster Presentation, Radiological Society of North America, Chicago, IL (Co-Author)
- 12/2003 MR arthrography of the hip with arthroscopic correlation., Radiological Society of North America 89th Scientific Assembly and Annual Meeting, Poster Presentation, Radiological Society of North America, Chicago, IL (Co-Presenter)
- 05/2003 MR arthrography of the Shoulder: Review of 81 Consecutive Subjects, 103rd Annual Meeting of American Roentgen Ray Society, Poster Presentation, American Roentgen Ray Society, San Diego, CA (Co-Author)

SERVICE

PATIENT CARE:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
08/2013-08/2023		Director of MSK Sarcoma Conference	Director
		<i>Director and oversee MSK Sarcoma Conference, weekly multi-disciplinary board at CTRC.</i>	
12/2012-12/2015	Outpatient	EPIC Physician Builder - Orthopaedic Surgery	Clinician
		<i>Physician Builder for EPIC Ambulatory</i>	

SERVICE TO THE INSTITUTION:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
06/2014-06/2017	Department	Assistant Program Director, Dept of Orthopaedic Surgery	Associate Director

SERVICE TO THE PROFESSION:

<u>Dates</u>	<u>Type</u>	<u>Description</u>	<u>Role</u>
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11/2013-11/2015		Austin Journal of Orthopaedics	Editorial Board Member
08/2013-08/2023		Annals of Orthopaedics and Rheumatology	Editorial Board Member
		<i>Editorial Board</i>	
05/2013-05/2023		BMC Cancer	Reviewer
		<i>Journal Reviewer</i>	
02/2013-02/2013	National	AAOS Research Capitol Hill Days	Physician
		<i>Active participant in AAOS Research Capitol Hill Days. Advocated for continued NIH funding and research funding.</i>	
01/2013-01/2017	Local	Advisor to Students	Mentor
		<i>Mentor to several medical students: Janitzio Guzman, Uche Osadebe, Shah Khan, Isaac Kim, Marisa Auspurger.</i>	
08/2000-06/2005	Local	UAAMSA	Board Member
		<i>United Asian American Medical Student Association</i>	

PROFESSIONAL AFFILIATIONS:

<u>Dates</u>	<u>Organization</u>	
01/2015-01/2017	AAOS Orthoinfo	<i>Additional Details:</i> Section Editor - Tumor
11/2014-11/2024	Musculoskeletal Tumor Society	<i>Additional Details:</i> Active Member
11/2014-Present	AAOS	<i>Additional Details:</i> Fellow
09/2014-Present	AOA 2015 Emerging Leader Research Group	<i>Additional Details:</i> Working group to address the needs of the AOA's Emerging Leader Survey/Research Project on Career Development.
06/2014-Present	Council of Residency Directors	<i>Additional Details:</i> Member of CORD
01/2013-01/2015	Musculoskeletal Tumor Society	<i>Additional Details:</i> Candidate Member
09/2012-09/2016	Experimental and Developmental Therapeutics Program	<i>Additional Details:</i> Associated through CTRC

- 06/2012-Present Musculoskeletal Oncology Research Initiative
Additional Details: *Group of early career Musculoskeletal Oncologists with the intention of performing multi-centered studies.*
- 05/2012-05/2022 Texas Medical Association
Additional Details: *Member*
- 05/2012-05/2020 AOA
Additional Details: *Emerging Leaders Program Member*
- 05/2012-05/2013 Bexar County Medical Society
Additional Details: *Member*
- 05/2012-Present Connective Tissue Oncology Society
Additional Details: *Member*
- 05/2012-Present Texas Orthopaedic Association
Additional Details: *Associate Membership*
- 01/2012-Present Children's Oncology Group
Additional Details: *Member*
- 11/2011-11/2014 AAOS
Additional Details: *Candidate Member*

COMMITTEES (UTHSCSA Standing Committees):

SCHOOL

<u>Dates</u>	<u>Committee</u>	<u>Role</u>
08/2012-08/2016	Admissions Committee	Member

COMMITTEES (OTHER):

DEPARTMENT

<u>Dates</u>	<u>Committee</u>	<u>Role</u>
12/2013-12/2016	UTHSCSA Department of Orthopaedic Surgery Program Evaluation Committee, UTHSCSA, Orthopaedic Surgery <i>Evaluate current status of the Orthopaedic Residency Program</i>	Chair
03/2013-03/2015	UTHSCSA Department of Orthopaedic Surgery Clinical Competency Committee, UTHSCSA, School of Medicine, Orthopaedic Surgery <i>Committee of six that review competencies of Orthopaedic surgery residents.</i>	Member

10/2011-10/2016	UTHSCSA Department of Orthopaedic Surgery Residency Selection Committee, UTHSCSA, School of Medicine, Orthopaedic Surgery	Member
	<i>Actively participates in selection of future residents by interviewing prospects and discussing the rank order list.</i>	

11/2009-03/2010	Emory University Department of Orthopaedics Residency Selection Committee, Emory University, Orthopaedics	Member
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HOSPITAL

<u>Dates</u>	<u>Committee</u>	<u>Role</u>
06/2015-Present	University Hospital Cancer Committee, Univeristy Hospital	Other
	<i>Alternate Chair of the Cancer Committee at University Hospital, San Antonio Texas. Purpose is to coordinate care for cancer patients seen at University Hospital.</i>	
11/2011-11/2015	University Hospital Cancer Committee, University Hospital	Member
	<i>Member of the Cancer Committee at University Hospital, San Antonio Texas. Purpose is to coordinate care for cancer patients seen at University Hospital.</i>	

OTHER

<u>Dates</u>	<u>Committee</u>	<u>Role</u>
05/2014-05/2016	AOA Abstract Review Committee, AOA	Member
	<i>Review Abstracts for presentation at American Orthopaedic Association.</i>	
08/2012-08/2013	Bexar County Socioeconomic and Legislative Committee, Bexar County Medical Society	Member
	<i>Bexar County SLC member.</i>	
02/2012-02/2016	AAOS Diversity Advisory Board, American Academy of Orthopaedic Surgeons	Member
	<i>Member of the AAOS Diversity Advisory Board whose purpose is to address diversity specifically within orthopaedic surgery across the US. This includes addressing residency selection, mentorship, and career development. Cultural Competent medicine is also addressed by the committee through publication, seminars, and lectures.</i>	
02/2012-02/2016	AAOS Council on Research and Quality, American Academy of Orthopaedic Surgeons	Member
	<i>Liaison from Diversity Advisory Board to Council on Research and Quality. Review overall research agenda for the AAOS along with approval of guidelines and appropriate use criteria.</i>	

UNIVERSITY

<u>Dates</u>	<u>Committee</u>	<u>Role</u>
01/2001-01/2005	University of Michigan Admissions Committee Member, University of Michigan	Member