

GEORGE R. MATCUK JR., M.D.

Associate Professor of Radiology
Division of Musculoskeletal Radiology
S. Mark Taper Foundation Imaging Center
Cedars-Sinai Medical Center
8700 Beverly Blvd, Ste M-335
Los Angeles, CA 90048

EDUCATION & TRAINING

2008-2009	University of Southern California, Keck School of Medicine Fellowship in Musculoskeletal Radiology	Los Angeles, CA
2007	University of Southern California-Los Angeles County Hospital Chief Resident in Diagnostic Radiology	Los Angeles, CA
2004-2008	University of Southern California-Los Angeles County Hospital Residency in Diagnostic Radiology Certified in Diagnostic Radiology by American Board of Radiology, June 2008	Los Angeles, CA
2003-2004	UCLA-Greater Los Angeles Veterans Administration Hospital Internship in Internal Medicine	Los Angeles, CA
1998-2003	Stanford University School of Medicine M.D. granted June 15, 2003	Stanford, CA
1994-1998	Carnegie Mellon University B.S. Biology, <i>Departmental, College, and University Honors</i> B.S. Chemistry, <i>College and University Honors</i> Cumulative GPA: 4.00 (Four point scale); Degrees granted May 17, 1998	Pittsburgh, PA

LICENSURE

2003-Present **Medical Board of California** A89989

PROFESSIONAL EXPERIENCE

2020-Current	Cedars-Sinai Medical Center Associate Professor of Radiology Division of Musculoskeletal Radiology	Los Angeles, CA
2019-2020	Research Consultant – Canon Medical Systems, USA	Los Angeles, CA
2015-2020	University of Southern California, Keck School of Medicine Associate Professor of Clinical Radiology Division of Musculoskeletal Radiology	Los Angeles, CA
2014-2019	Musculoskeletal Radiology Fellowship Program Director University of Southern California, Keck School of Medicine	
2013-2020	Healthcare Compliance Committee Radiology Department Liaison	

- University of Southern California, Keck School of Medicine
- 2012-2019 **Graduate Medical Education (GME) Committee**
Musculoskeletal Radiology Division Representative.
- 2009-2015 **University of Southern California, Keck School of Medicine** Los Angeles, CA
Assistant Professor of Clinical Radiology
Division of Musculoskeletal Radiology
- 2008-2009 **University of Southern California, Keck School of Medicine** Los Angeles, CA
Clinical Instructor in Radiology
- 2000-2003 **BioCardia, Inc. (now CareDx, Inc. (CDNA))**
Provided computer consultation, generated an on-line database entry system, and researched candidate genes for proprietary studies.
- 2000-2003 **Residential Computing Consultant**
Help on-campus residents setup their network connections and troubleshoot their computer problems.
- 1999-2001 **Web Developer, Curriculum Web Project**
Maintained and continually updated online curricular content for medical school courses. Redesigned the web user interface and collaborated with course directors to develop new modalities for online education.
- 2001 **Internet Resources, Current Medical Diagnosis and Treatment 2002**
Updated, eliminated, identified, and rated relevant internet resources on the companion web site for the popular textbook, Current Medical Diagnosis and Treatment
- Fall 1999 **CME Database Documentation**
Wrote a comprehensive user manual for a database program used by the medical school administration for Continuing Medical Education courses and programs.
- Summer 1999 **Residence Life Director, Pennsylvania Governor's School for the Sciences**
Lived with and supervised a group of 16 counselors and 90 exceptional high school students for an intensive five-week science program. Also served as a biology TA/counselor for the program in the summers of 1996, 1997, & 1998.
- 1998-1999 **Digital Curriculum Team**
Pioneered efforts with the original team of students to record and digitize medical school lectures for streaming online via the Curriculum Web Project.
- Winter 2001 **Teaching Assistant, Pathology 230C** (Neuro, Endocrine, Breast, Bone, Derm, GU)
Conducted weekly review sessions, prepared and graded weekly problem sets, provided review handouts, supervised lab sessions, and tutored students.
- Spring 2000 **Teaching Assistant, Pathology 230A** (Inflammation, Neoplasia, Cardiac, Heme)
Conducted weekly review sessions, prepared and graded weekly problem sets, provided review handouts, supervised lab sessions, and tutored students.
- Winter 2000 **Teaching Assistant, Surgery 101A** (Human Anatomy for Undergraduates)
Hosted office hours and tutored and assisted students in dissections in the lab.
- Summers 1996-1998 **Teaching Assistant, Biology, Pennsylvania Governor's School for the Sciences**
Tutored and assisted students with cellular biology course and research projects.

Spring 1996 **Teaching Assistant, Modern Biology, Carnegie Mellon University**
Tutored and assisted students with biology course with weekly review sessions.

PROFESSIONAL ACTIVITIES

PROFESSIONAL SOCIETY MEMBERSHIPS

2016-Present Society of Skeletal Radiology
2008-Present USC Society of Graduate Radiologists and Faculty
2004-Present American College of Radiology
2004-Present Radiological Society of North America
2004-Present American Roentgen Ray Society
2004-Present Los Angeles Radiological Society
2004-Present California Radiological Society

EDITORIAL SERVICES – PEER REVIEW

2019-Current **Journal of Orthopaedic & Sports Physical Therapy**, Reviewer
2019 **USC Dean’s Pilot Funding Program**, Reviewer
2018-Current **European Journal of Radiology**, Reviewer
2017-Current **BMJ Case Reports**, Reviewer
2016-Current **Emergency Radiology**, Reviewer
2016-Current **Academic Radiology**, Reviewer
2015-Current **Radiopaedia.org**, Expert Adviser, Musculoskeletal Imaging
2013-Current **Clinical Imaging**, Reviewer
2013 **Southern California Clinical and Translational Science Institute (SC-CTSI)**,
Reviewer, Cancer Committee

PATENT APPLICATIONS

J Wohlgenuth, K Fry, **G Matcuk**, P Altman, J Prentice, J Phillips, N Ly, R Woodward, T Quertermous, F Johnson. *Leukocyte Expression Profiling*. CA2426540 A1, July 25, 2002; WO2002057414 A3, September 26, 2002; US20070037144 A1, February 15, 2007; and EP1334113 A4, August 8, 2007.

HONORS & AWARDS

2011-2020 **Top Doctor**, as selected by *Los Angeles Magazine*, recognizing the top doctors in Los Angeles county, as selected by their peers.
2011-2020 **Top Doctor**, as selected by *Pasadena Magazine* recognizing the top doctors in the San Gabriel Valley area, as selected by their peers.
2017-2020 **Super Doctors Southern California**, recognizing the top approximately 2.5% of top doctors in the Southern California area.
2014-2020 **Top Doctor**, in the specialty of Diagnostic Radiology, recognizing the top 10-15% of physicians in their geographical region, as identified by Castle Connolly Medical, LTD.
2016-2019 **America’s Most Honored Professionals**, as identified by The American Registry. Top 1% in 2019.
11/18 **Magna Cum Laude Award**, RSNA education exhibit: Pain in the Butt! Imaging Coccygeal Trauma and Coccydynia

- 11/18 **Certificate of Merit**, RSNA education exhibit: Quantitative Dynamic Contrast-Enhanced Ultrasound and Magnetic Resonance Imaging for the Evaluation of Synovitis and Treatment Response in Inflammatory Arthritis
- 11/18 **Certificate of Merit**, RSNA education exhibit: Musculoskeletal Biopsy 101: From Pre-Procedural Planning to Post Procedure Care
- 10/18 **Outstanding Reviewer**, Clinical Imaging
- 06/18 **2018 RSNA Honored Educator Award**, recognizing dedication to furthering the profession of radiology by delivering high-quality educational content for the RSNA
- 12/17 **Cum Laude Award**, RSNA education exhibit: Musculoskeletal Lipomatous Tumors: A Pictorial Review with Emphasis on the Radiologist's Role
- 12/17 **Certificate of Merit**, RSNA education exhibit: Meniscus Surgeries: Illustrative Review of Meniscal Tear Patterns, Repair and Replacement Options, and Imaging Evaluation and Findings
- 12/17 **Certificate of Merit**, RSNA education exhibit: Nononcologic Applications of PET in Musculoskeletal and Rheumatologic Imaging
- 12/16 **Cum Laude Award**, RSNA education exhibit: Beyond Valley Fever: Imaging of Musculoskeletal Disseminated Coccidioidomycosis
- 12/16 **Cum Laude Award**, RSNA education exhibit: An Illustrated Guide to Intraspinial Cystic Lesions
- 12/16 **Certificate of Merit**, RSNA education exhibit: MRI of Chondrosis and Cartilage Repair Surgeries
- 12/16 **Certificate of Merit**, RSNA education exhibit: A Guided Tour of the Anterior Knee: Challenges Posed by Normal and Variant Anatomy
- 10/16 **Outstanding Reviewer**, Clinical Imaging
- 2013-2015 **Super Doctors Southern California Rising Star**, as selected by *Los Angeles* magazine, recognizing the top approximately 2.5% of top young doctors in the Southern California area who have been fully-licensed to practice for 10 years or less.
- 12/15 **Certificate of Merit**, RSNA education exhibit: Hypertrophic Osteoarthropathy (HOA): What Lies Beneath Hipocrates' Fingers
- 12/15 **Certificate of Merit**, RSNA education exhibit: Coracoid: The Lighthouse of the Shoulder
- 12/15 **Certificate of Merit**, RSNA education exhibit: Musculoskeletal Manifestations of Hematologic Malignancies
- 04/15 **Certificate of Merit**, ARRS education exhibit: Scapulothoracic Bursitis and Snapping Scapula Syndrome
- 12/14 **Cum Laude Award**, RSNA education exhibit: The TFCC - An Illustrated Review of Its Anatomy and Injury Patterns Based on the Palmer Classification
- 12/14 **Certificate of Merit**, RSNA education exhibit: Inferior Glenohumeral Labroligamentous (IGHL) Complex—Anatomy, Injuries, and Adhesive Capsulitis

- 12/13 **Magna Cum Laude Award**, RSNA education exhibit: Sesamoiditis and Turf Toe: An In-Depth Look at Two Common Foot Injuries
- 12/13 **Cum Laude Award**, RSNA education exhibit: Posteromedial Corner of the Knee: The Neglected Corner
- 11/12 **Certificate of Merit**, RSNA education exhibit: TB or not TB? That is the Question for the MSK Radiologist
- 11/12 **Certificate of Merit**, RSNA education exhibit: Hand Infections: Vectors, Modes of Spread, Imaging Findings, and Treatment Options
- 11/12 **Certificate of Merit**, RSNA education exhibit: Osteosarcoma Variants: Common Appearances, Mimics, and Developments in Imaging
- 11/12 **Certificate of Merit**, RSNA education exhibit: Elbow Fracture Patterns and Classification Systems
- 11/11 **Certificate of Merit**, RSNA education exhibit: Sternoclavicular Joint Pathology: A Radiographic Review with Clinical Correlation
- 11/11 **Certificate of Merit**, RSNA education exhibit: Giant Cell Tumors: Common Appearances, Unusual Subtypes, and New Developments in Treatment
- 06/11 **Teacher of the Year, USC Department of Radiology**
- 11/10 **Cum Laude Award**, RSNA education exhibit: Limb-sparing Surgery for Distal Femoral and Proximal Tibial Bone Lesions: Imaging Findings with Intraoperative Correlation
- 11/10 **Certificate of Merit**, RSNA education exhibit: Transient Lateral Patellar Dislocation: Review of Imaging Findings, Patellofemoral Anatomy, and Treatment Options
- 11/10 **Certificate of Merit**, RSNA education exhibit: Injuries of the Medial Collateral Ligament: A Multimodality Review
- 11/10 **Certificate of Merit**, RSNA education exhibit: Elbow Arthroplasties and Osteoarticular Allografts: Indications, Imaging, and Complications
- 11/09 **Certificate of Merit**, RSNA education exhibit: Bursae of the Knee: Normal Anatomy, Complications, and Mimics
- 06/09 **Fellow of the Year, USC Department of Radiology**
- 06/09 **Board Reviewer of the Year, USC Department of Radiology**
- 06/08 **Resident of the Year, USC Department of Radiology**
- 06/08 **Fourth Year Winner LAC/USC Resident Case-of-the-Week Competition**
- 06/06 **First Place LAC/USC Resident Case-of-the-Week Competition**
- 06/05 **Third Place LAC/USC Resident Case-of-the-Week Competition**
- 9/00-3/01 **Genentech Medical Scholars Research Fellowship**. Second fellowship awarded for continuation and expansion of my research in the laboratory of Tom Quertermous, MD.
- 3/00-9/00 **Genentech Medical Scholars Research Fellowship**. Awarded for my research creating an angiogenesis cDNA library in the lab of Tom Quertermous, MD.

- Summer 1999 **PA Governor's School for the Sciences Exemplary Service Award.** Presented in honor of four years of service as a teaching assistant, counselor, and residence life director.
- 1998 **Andrew Carnegie Society Presidential Scholar.** Presented to the most outstanding student in the Mellon College of Science.
- 1998 **Outstanding Academic Achievement and Undergraduate Research Award**
- 1998 **Alumni Association Academic-Athletic Achievement Award.** Presented to the varsity athletics four-year letter winner (swimming and track & field) with the highest GPA.
- Societies **Sigma Xi** (Spring 1998), **Phi Beta Kappa** (Fall 1997), **Phi Kappa Phi** (Spring 1996)

RESEARCH GRANTS

- 2019-2020 **RSNA Research Medical Student Grant**
\$3,000 + \$3,000 Matching Funds from Department
Treatment Response Assessment in Soft Tissue Sarcomas Using MRI-based Texture Analysis
Using quantitative texture and other radiomics analysis of soft tissue sarcoma MRIs for assessment of neoadjuvant treatment response.
Role: Mentoring/Supervising Radiologist
- 2019-2020 **Center for Image Acquisition, USC Stevens Neuroimaging and Informatics Institute**
\$14,000
7 Tesla Ultra-High Field MRI Cartilage Mapping to Evaluate the Effect of Intra-articular, Autologous Adipose Tissue Injections for the Treatment of Mild-to-Moderate Knee Osteoarthritis
Investigating a 7T MRI multi-sequence cartilage mapping protocol for the evaluation of knee cartilage in patients before and after the intra-articular administration of adipose tissue injections.
Role: PI
- 2018-2019 **RSNA Research Medical Student Grant**
\$3,000 + \$3,000 Matching Funds from Department
Quantitative Magnetic Resonance Imaging (Q-MRI) for the Assessment of Soft-tissue Sarcoma Necrosis, Viable Tumor Volume, and Treatment Response with Comparison to Contrast-enhanced Ultrasound (CEUS)
Using novel analysis of whole tumor volume MRI to quantitate soft tissue sarcoma percent necrosis and viable tumor volume for assessment of neoadjuvant treatment response.
Role: Mentoring/Supervising Radiologist
- 2017-2020 **Canon (Toshiba) Pilot Funding Award**
\$40,552
Calibration, optimization, and clinical validation of Toshiba ultrashort echo time (UTE) sequence in the assessment of osteochondral junction
Investigating ultrashort echo time (UTE) 3T MRI sequence for the evaluation of the deep layer of cartilage and subchondral plate in patients with intermediate grade (grade 2-3) cartilage lesions.
Role: PI
- 2017-2018 **Canon (Toshiba) Pilot Funding Award**
\$30,274

FSE 2D Compressed Sensing Field Test

Investigating compressed sensing (CS) MRI sequence for evaluation of quality and time savings for 3T MRI of the knee compared to standard FSE sequences.

Role: PI

2016-2018 **2016 Wright Foundation Pilot Award**

\$49,947

Contrast-Enhanced Ultrasound for the Evaluation of Synovitis and Treatment Response in Inflammatory Arthritis

Using contrast-enhanced ultrasound to quantify synovitis in inflammatory arthritis and assess response after treatment with disease modifying anti-rheumatic drugs compared to contrast-enhanced MRI.

Role: PI

2016-2017 **Department of Orthopaedics Pilot Funding Award**

\$22,346

Relationship between cartilage MRI T2 mapping volumetric analysis volume and activity level using Fitbit

Using novel quantitative volumetric analysis of knee articular cartilage to assess variations related to activity (correlated with Fitbit data) and diurnal variation.

Role: PI, Imaging

2016-2017 **Canon (Toshiba) Pilot Funding Award**

\$25,000

View Angle Tilting (VAT) for Metal Artifact Reduction for Hip or Knee Prostheses

Use view angle tilting (VAT) MRI pulse sequence to evaluate improve metal artifact reduction for evaluation of hip and knee prostheses.

Role: PI

INVITED LECTURES

1. **G Matcuk.** *Imaging of the Postoperative Knee.* Orthopaedic Grand Rounds. Cedars-Sinai Medical Center. Los Angeles CA, July 8, 2020.
2. **G Matcuk.** *Imaging of the Postoperative Knee.* Los Angeles Radiological Society (LARS). 71st Annual Midwinter Conference. Long Beach, CA, February 10, 2019.
3. **G Matcuk,** M Franco, B Kenol, P Chhibar, J Gross, S Christianakis. *Contrast-Enhanced Ultrasound (CEUS) for the Evaluation of Synovitis and Treatment Response in Inflammatory Arthritis.* RSNA 2017, CME Lunch Discussion, Presentation ID# 17013211, Chicago, IL, November 28, 2017.
4. **G Matcuk.** *Advanced Imaging of the Shoulder.* USC Society of Graduate Radiologists and Faculty. 43rd Annual Radiology Symposium. Palos Verdes, CA, October 15, 2016.
5. **G Matcuk,** S Cen, P Moin. *Shoulder Measurements on MRI and Correlation with Rotator Tears.* ARRS 2016, Scientific Presentation, ID# 1547. Los Angeles, CA, April 21, 2016.
6. **G Matcuk,** I Siddiqi, S Cen, A Hagiya, R Isaacson, R Brynes. *Marrow Cellularity MRI Calculation and Correlation with Bone Marrow Biopsy.* RSNA 2014, Scientific Presentation, ID# 14008096. Chicago, IL, December 4, 2014.
7. **G Matcuk.** *Hot Topics in MSK.* USC Society of Graduate Radiologists and Faculty. 39th Annual Radiology Symposium. Monarch Beach, CA, October 14, 2012.

8. **G Matcuk**, S Cen, V Keyfes, D Patel, C Gottsegen, E White. *Superolateral Hoffa's Fat Pad Edema and Patellofemoral Maltracking: Statistical Analysis of Patellofemoral Measurements Compared to Normal Patients and Predictive Modeling*. RSNA 2011, Scientific Presentation, ID# 11006814. Chicago, IL, November 28, 2011.
9. C Lee, **G Matcuk**, D Forrester, C Gottsegen, D Patel, E White. *Piriformis Syndrome: Anatomy, Radiologic Evaluation, and Intervention*. RSNA 2011, CME Lunch Discussion Presentation, ID# 11001711. Chicago, IL, November 28, 2011.
10. **G Matcuk**, M Im, P Jain, A Wilcox, I Shulman, S Keesara. *Reducing CT Pulmonary Angiogram Overutilization with D-dimer and Arterial Blood Gas Results*. ASER 2007. Oral Presentation. ID # 45. San Diego, CA, October 5, 2007.
11. **G Matcuk**, N Gupta, C Wedding, S Keesara. *Unexpected Findings on Non-Contrast CTs for Suspected Urolithiasis*. ASER 2007. Oral Presentation. ID# 46. San Diego, CA, October 5, 2007.
12. **G Matcuk**, M Im, P Jain, A Wilcox, I Shulman, S Keesara. *Correlation of Findings on CT Pulmonary Angiograms with D-dimer Assay and Arterial Blood Gas Results*. RSNA 2006. Scientific Paper, ID # 4430286. Chicago, IL. November 26, 2006.

PUBLICATIONS

1. **G Matcuk**, J Gross, J Fritz. Compressed Sensing Magnetic Resonance Imaging (CS-MRI): Technique and Clinical Applications. *Adv Clin Rad*, 2020; 2:257-271.
2. H Patel, M Skalski, D Patel, E White, A Tomasian, J Gross, CT Vangsness, **G Matcuk**. Illustrative review of knee meniscal tear patterns, repair and replacement options, and imaging evaluation. *Clin Imag*, 2021; 69:4-16.
3. B Fields, **G Matcuk**, D Lai, A Lee, S Dwabe, C Hanlon, N Demirjian, S Politano. *Multisystemic Manifestations of Hepatic Angiosarcoma*. *Curr Probl Cancer Case Rep*, Online First, July 2020.
4. M Skalski, **G Matcuk**, D Patel, A Tomasian, E White, J Gross. Imaging Coccyx Trauma and Coccydynia. *Radiographics*, 2020; 40(4):1090-1106.
5. B Fields, D Hwang, S Cen, B Desai, M Gulati, J Hu, V Duddalwar, B Varghese, **G Matcuk**. Quantitative magnetic resonance imaging (q-MRI) for the assessment of soft-tissue sarcoma treatment response: a narrative case review of technique development. *Clin Imag*, 2020; 63:83-93.
6. **G Matcuk**, D Patel, R Lefebvre. Horseshoe Abscess of the Hand with Rice Bodies Secondary to Mycobacterium Avium Intracellulare Infection. *Clin Imag*, 2020; 63:24-29.
7. W Tseng, J Chen, D Patel, C Miao, A Ching, S Yang, Y Feng, **G Matcuk**, K Lara, J Hu, O Ragab, J Ho, X Rao, S Hanif, C Luo. Multidisciplinary Sarcoma Tumor Board: Retroperitoneal Liposarcoma. *Chin Clin Oncol*, 202; 9(2):20.
8. **G Matcuk**, P Moin, S Cen. Shoulder measurements on MRI: Statistical analysis of patients without and with rotator cuff tears and predictive modeling. *Clin Anat*, 2020; 33(2):173-186.
9. K Hindoyan, J Lieberman, **G Matcuk**, E White. A Precise and Reproducible Method of Determining Lesion Size in Osteonecrosis of the Femoral Head using Volumes. *J Arthroplasty*, 2020; 35(1):285-290.
10. M Morris, **G Matcuk**, B DeClerk, D Arkfeld, M Stevanovic. Linear Morphea with Inflammatory Myositis: Case Report. *J Hand Surg*, 2020; 45(8):782.e1-782.e5.

11. S Bowman, E White, A Tomasian, J Gross, D Patel, **G Matcuk**. Multiple Hereditary Exostoses: Genetics, Multimodality Imaging Complications, Differential Diagnosis, and Treatment. *Contemp Diag Radiol* 2019; 42(23):1-7.
12. **G Matcuk**, J Gross, B Fields, S Cen. Compressed Sensing Magnetic Resonance Imaging (CS-MRI) of the Knee: Assessment of Quality, Inter-reader Agreement, and Acquisition Time. *Magn Reson Med Sci*, Online First, September 2019.
13. **G Matcuk**, I Jones, JA McIntyre, R Burt, D Hwang, S Cen, A Schein, CT Vangsness. Evaluation of knee cartilage diurnal, activity, and BMI-related variations using quantitative T2 mapping MRI and Fitbit activity tracking. *J Knee Surg*, Online First, August 2019.
14. Y Liu, M Tran, M Skalski, D Patel, E White, A Tomasian, J Gross, CT Vangsness, **G Matcuk**. MR Imaging of Cartilage Repair Surgery of the Knee. *Clin Imaging*, 2019; 58:129-139.
15. B Wang, **G Matcuk**, J Barbic. Hand Modeling and Simulation Using Stabilized Magnetic Resonance Imaging. *ACM Trans Graph*, 2019; 38(4):Article 115.
16. M Skalski, **G Matcuk**, W Gibbs. The Art of Interpreting Cervical Spine Radiographs. *Radiographics*, 2019; 39(3):820-821.
17. C Li, M Skalski, **G Matcuk**, D Patel, J Gross, A Tomasian, E White. Coracoid Process Fractures: Anatomy, Injury Patterns, Multimodality Imaging, and Approach to Management. *Emerg Radiol*, 2019; 26(4):449-458.
18. B Fields, M Skalski, D Patel, E White, A Tomasian, J Gross, **G Matcuk**. Adhesive Capsulitis: Review of Imaging Findings, Pathophysiology, Clinical Presentation, and Treatment Options. *Skeletal Radiol*, 2019; 48(8):1171-1184.
19. **G Matcuk**, D Patel, S Cen, K Heidari, E Tan. Fibular Groove Morphology and Measurements on MRI: Correlation with Fibularis Tendon Abnormalities. *Surg Radiol Anat*, 2019; 41(1):75-85.
20. E White, M Skalski, **G Matcuk**, N Heckmann, A Tomasian, J Gross, D Patel. Intra-articular Tongue-Type Fractures of the Calcaneus: Anatomy, Injury Patterns, and an Approach to Management. *Emerg Radiol*, 2019; 26(1):67-74.
21. A Batouli, A Gholamrezaezhad, D Petrov, S Rudkin, **G Matcuk**, H Jadvar. Management of Primary Osseous Spinal Tumors with PET. *PET Clin*, 2019; 14(1):91-101.
22. M Assadi, E Velez, M Najafi, **G Matcuk**, A Gholamrezaezhad. PET Imaging of Peripheral Nerve Tumors. *PET Clin*, 2019; 14(1):81-89.
23. K Lara, G In, **G Matcuk**, A Mehta, J Hu. Talimogene laherparepvec in combination with pembrolizumab leads to a complete response in a patient with refractory Merkel cell carcinoma. *J Am Acad Dermatol*, 2018; 4(10):1004-1006.
24. **G Matcuk**, S Chopra, L Menendez. Solid aneurysmal bone cyst of the humerus mimics metastasis or brown tumor. *Clin Imaging*, 2018; 52:117-122.
25. M Asadoorian, **G Matcuk**, D Patel, A Tomasian, H Wassef, E White. Musculoskeletal Pitfalls on Fluorodeoxyglucose F 18 PET-Computed Tomography: Pictorial Review. *PET Clin*, 2018; 13(4):587-607.
26. A Behzadi, S Raza, J Carrino, C Kosmas, A Gholamrezaezhad, K Basques, **G Matcuk**, J Patel, H Jadvar. Applications of PET/CT and PET/MR Imaging in Primary Bone Malignancies. *PET Clin*, 2018; 13(4):623-634.

27. D Patel, **G Matcuk**. Imaging of Soft Tissue Sarcomas. *Chin Clin Oncol*, 2018; 7(4):35.
28. A Gholamrezanezhad, K Basques, A Batouli, **G Matcuk**, A Alavi, H Jadvar. Clinical Nononcologic Applications of PET/CT and PET/MRI in Musculoskeletal, Orthopedic, and Rheumatologic Imaging. *AJR Am J Roentgenol*, 2018; 210:W245-W263.
29. **G Matcuk**, S Price, D Patel, E White, S Cen. Acetabular Labral Tear Description and Measures of Pincer and Cam-type Femoracetabular Impingement and Interobserver Variability on 3T MR Arthrograms. *Clin Imaging*, 2018; 50:194-200.
30. Y Liu, M Skalski, D Patel, E White, A Tomasian, **G Matcuk**. The Anterior Knee: Normal Variants, Common Pathologies, and Diagnostic Pitfalls on MRI. *Skeletal Radiol*, 2018; 47(8):1069-1086.
31. E White, M Skalski, D Patel, J Gross, A Tomasian, N Heckmann, **G Matcuk**. Isolated Greater Tuberosity Fractures of the Proximal Humerus: Anatomy, Injury Patterns, Multimodality Imaging, and Approach to Management. *Emerg Radiol*, 2018; 25(3):235-246.
32. A Hagiya, A Etman, I Siddiqi, S Cen, **G Matcuk**, R Brynes, M Salama. Digital Image Analysis Agrees with Visual Estimates of Adult Bone Marrow Trephine Biopsy Cellularity. *Int J Lab Hematol*, 2018; 40(2):209-214.
33. W Osias, **G Matcuk**, M Skalski, D Patel, A Schein, G Hatch, E White. Scapulothoracic Pathology: Review of Anatomy, Pathophysiology, Imaging Findings, and an Approach to Management. *Skeletal Radiol*, 2018; 47(2):161-171.
34. A Gholamrezanezhad, K Basques, A Batouli, M Olyaie, **G Matcuk**, A Alavi, H Jadvar. Non-oncologic Applications of PET/CT and PET/MR in Musculoskeletal, Orthopedic, and Rheumatologic Imaging: General Considerations, Techniques, and Radiopharmaceuticals. *J Nucl Med Technol*, Online First November 2017.
35. N Khadem, C Costales, E White, D Patel, A Tomasian, **G Matcuk**. Lung Adenocarcinoma with Miliary Metastases and Left Femur Pathologic Fracture: an Unusual Case Mimicking Disseminated Tuberculosis. *HSSJ*, 2017; 13(2):201-206.
36. S Navarro, **G Matcuk**, D Patel, M Skalski, E White, A Tomasian, A Schein. Musculoskeletal Imaging Findings of Hematologic Malignancies. *Radiographics*, 2017; 37(3):881-900.
37. R Flato, G Passanante, M Skalski, D Patel, E White, **G Matcuk**. The Iliotibial Tract: Imaging, Anatomy, Injuries, and Other Pathology. *Skeletal Radiol* 2017; 46(5):605-622.
38. G Passanante, M Skalski, D Patel, E White, A Schein, C Gottsegen, **G Matcuk**. Inferior Glenohumeral Labroligamentous (IGHL) Complex: Anatomy, Injuries, Imaging Features, and Treatment Options. *Emerg Radiol* 2017; 24(1):65-71.
39. F Yap, M Skalski, D Patel, A Schein, E White, A Tomasian, S Masih, **G Matcuk**. Hypertrophic Osteoarthropathy (HOA): Clinical and Imaging Features. *Radiographics* 2017; 37(1):157-175.
40. Y Lee, E White, A Tomasian, D Phan, D Patel, **G Matcuk**, A Schein. Sonographic and MR Evaluation of Pectoralis Major Injury. *Radiographics* 2017; 37(1):176-189.
41. H Mohammed, M Skalski, D Patel, E White, A Schein, A Tomasian, G Hatch, **G Matcuk**. Coracoid Process: The Lighthouse of the Shoulder. *Radiographics* 2016; 36(7):2084-2101.
42. **G Matcuk**, S Mahanty, M Skalski, D Patel, E White C Gottsegen. Stress Fractures: Pathophysiology, Clinical Presentation, Imaging Features, and Treatment Options. *Emerg Radiol* 2016; 23(4):365-375.

43. **G Matcuk**, I Siddiqi, S Cen, A Hagiya, R Isaacson, R Brynes. Marrow Cellularity MRI Calculation and Correlation with Bone Marrow Biopsy. *Clin Imaging* 2016; 40(3):392-397.
44. L Shen, S Masih, D Patel, **G Matcuk**. MR Anatomy and Pathology of the Ulnar Nerve involving the Cubital Tunnel and Guyon's Canal. *Clin Imaging* 2016; 40(2):263-274.
45. C Trebino, **G Matcuk**, D Patel, S Christianakis, C Gottsegen, D Forrester, E White. A Review of Calcium Pyrophosphate Deposition (CPPD). *Curr Med Imag Rev* 2016; 12(2):118-129.
46. M Skalski, E White, D Patel, A Schein, H Riveramelo, **G Matcuk**. The Traumatized TFCC - An Illustrated Review of Its Anatomy and Injury Patterns of the Triangular Fibrocartilage Complex. *Curr Prob Diagn Radiol* 2016; 45(1):39-50.
47. R Lundquist, **G Matcuk**, A Schein, M Skalski, E White, D Forrester, C Gottsegen, D Patel. Posteromedial Corner of the Knee: The Neglected Corner. *Radiographics* 2015; 35(4):1123-1137.
48. Y Olimpiadi, S Song, J Hu, **G Matcuk**, S Chopra, B Eisenberg, S Sener, W Tseng. Contemporary Management of Retroperitoneal Soft Tissue Sarcomas. *Curr Oncol Rep* 2015; 17(8):39.
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22. M Asadoorian, **G Matcuk**, A Fedenko, E White, A Schein, A Tomasian, S Masih, D Patel. *Giant Cell Containing Lesions of the Musculoskeletal System: Beyond Giant Cell Tumor of Bone*. RSNA 2015, Educational Exhibit, ID# 15012229
23. C Campbell, **G Matcuk**, E White, A Schein, A Tomasian, S Masih, D Patel. *Subtle Pelvic Lesions: The Importance of Lines*. RSNA 2015, Educational Exhibit, ID# 15014354
24. Y Lee, E White, A Tomasian, D Phan, D Patel, **G Matcuk**, A Schein. *Sonographic and MR Evaluation of Pectoralis Major Injury*. RSNA 2015, Educational Exhibit, ID# 15002815
25. S Navarro, **G Matcuk**, M Skalski, D Patel, E White, A Schein. *Musculoskeletal Manifestations of Hematologic Malignancies*. RSNA 2015, Educational Exhibit, ID# 15010582
26. P Pan, S Masih, D Patel, S Modarresi, **G Matcuk**. *The Christmas Tree Spine: A Review of Various Etiologies and Patterns of Spinal Disc and Ligamentous Calcifications*. RSNA 2015, Educational Exhibit, ID# 15010379
27. C Ma, S Masih, K Chow, D Patel, **G Matcuk**. *A Case Based Review of Syndromes Associated with Musculoskeletal Pathology*. RSNA 2015, Educational Exhibit, ID# 15006770
28. L Shen, S Masih, K Chow, D Patel, S. Modarresi, **G Matcuk**. *A Long Way Tunneling Through, From Elbow to Wrist: MR Anatomy and Pathology of the Ulnar Nerve Involving Cubital Tunnel and Guyon's Canal*. Oral Presentation, The 2nd Annual World Congress of Orthopaedics 2015 (WCORT-2015), Xi'an, China, September 2015.
29. W Osias, E White, M Skalski, A Schein, D Patel, **G Matcuk**, D Forrester, G Hatch. *Scapulothoracic Bursitis and Snapping Scapula Syndrome*. ARRS 2015, Educational Exhibit, ID# E5025
30. S Vollmer, A Schein, **G Matcuk**, D Patel, E White, M Skalski, D Forrester, S Masih. *Posterior Tibial Tendon Dysfunction: Cause and Effect*. ARRS 2015, Educational Exhibit, ID# E1324
31. J Langer, S Masih, K Chow, D Patel, **G Matcuk**, M Skalski. *Tackling Traumatic Talar Injuries: A Review of Talar Anatomy and Traumatic Pathology*. ARRS 2015, Educational Exhibit, ID# E1023
32. C Ma, S Masih, K Chow, D Patel, **G Matcuk**. *A Case Based Review of Syndromes Associated with Musculoskeletal Pathology*. ARRS 2015, Educational Exhibit, ID# E2560
33. L Shen, S Masih, K Chow, D Patel, S. Modarresi, **G Matcuk**. *A Long Way Tunneling Through, From Elbow to Wrist: MR Anatomy and Pathology of the Ulnar Nerve Involving Cubital Tunnel and Guyon's Canal*. ARRS 2015, Educational Exhibit, ID# E2545
34. W Osias, E White, M Skalski, A Schein, D Patel, **G Matcuk**, D Forrester, G Hatch. *Scapulothoracic Bursitis and Snapping Scapula Syndrome*. RSNA 2014, Educational Exhibit, ID# 14001597
35. H Mohammed, D Patel, **G Matcuk**, T Charlton, A Schein, D Forrester, E White. *"Walking on Pins and Needles": Arthrodesis of the Foot and Ankle and its Complications*. RSNA 2014, Educational Exhibit, ID# 14001597
36. R Lundquist, **G Matcuk**, E White, D Forrester, C Gottsegen, S Masih, D Patel. *Posteromedial Corner of the Knee: The Neglected Corner*. RSNA 2013, Educational Exhibit, ID# 13012569

37. A Nguyen, **G Matcuk**, D Patel, D Forrester, E White, C Gottsegen. *Masses of the Hand and Wrist: A Comprehensive Multimodality Review with Emphasis on MRI of Soft Tissue, Articular, and Osseous Lesions*. RSNA 2013, Educational Exhibit, ID# 13011574
38. J Langer, S Masih, K Chow, D Patel, **G Matcuk**. *Tackling Traumatic Talar Injuries: A Review of Talar Anatomy and Traumatic Pathology*. RSNA 2013, Educational Exhibit, ID# 13011029
39. W Derry, S Masih, K Chow, D Patel, **G Matcuk**. *Here Today, Gone Tomorrow: MRI Evaluation of Normal and Abnormal Bone Marrow*. RSNA 2013, Educational Exhibit, ID# 13013010
40. L Kuo-Bonde, S Masih, D Patel, K Chow, **G Matcuk**. *A Radiological Review of Pes Planus Deformity*. ARRS 2013, Educational Exhibit, ID# 1747
41. R Dumont, S Masih, A Bansal, J Park, K Chow, D Patel, **G Matcuk**. *Imaging & Pathophysiology of Rice Bodies: Rheumatoid Arthritis and Beyond*. RSNA 2012, Educational Exhibit, ID# 12026370
42. L Kuo-Bonde, S Masih, D Patel, K Chow, **G Matcuk**. *A Radiological Review of Pes Planus Deformity*. RSNA 2012, Educational Exhibit, ID# 12026475
43. L Kuo-Bonde, **G Matcuk**, K Chow, S Masih. *Ulnar Variance & Its Sequelae*. RSNA 2012, Educational Exhibit, ID# 12022705
44. S Wang, **G Matcuk**, D Patel, E White, C Gottsegen, M Booker, D Forrester. *TB or not TB? That is the Question for the MSK Radiologist*. RSNA 2012, Educational Exhibit, ID# 12033684
45. N Emmanuel, D Patel, D Forrester, S Masih, C Gottsegen, **G Matcuk**, M Stevanovic, E White. *Hand Infections: Vectors, Modes of Spread, Imaging Findings, and Treatment Options*. RSNA 2012, Educational Exhibit, ID# 12022316
46. B Chalmers, E White, D Forrester, **G Matcuk**, C Gottsegen, D Patel. *Osteosarcoma Variants: Common Appearances, Mimics, and Developments in Imaging*. RSNA 2012, Educational Exhibit, ID# 12033378
47. J Ornelas, R Isaacson, **G Matcuk**, E White, D Patel, D Forrester, S Masih, C Gottsegen. *Synovial (Osteo)chondromatosis: A Multimodality Review of Typical and Atypical Presentations across a Spectrum of Joints*. RSNA 2012, Educational Exhibit, ID# 12025202
48. S Schroff, A Ahmed, **G Matcuk**, D Forrester, C Gottsegen, E White, S Masih, S Narvy, D Patel. *Elbow Fracture Patterns and Classification Systems*. RSNA 2012, Educational Exhibit, ID# 12026225
49. C Trebino, E White, S Christianakis, C Gottsegen, **G Matcuk**, D Patel, T Learch, D Forrester. *A Review of CPPD Arthropathy: Deposition in Rare Locations, The Value of Advanced Imaging, and Confusing Clinical Presentations*. ARRS 2012, Educational Exhibit, ID# 1803
50. L Kuo-Bonde, **G Matcuk**, K Chow, S Masih. *Ulnar Variance & Its Sequelae*. ARRS 2012, Educational Exhibit, ID# E381
51. K Feng, J Park, Q Al-Tariq, T Bui, Y Chen, **G Matcuk**, K Chow, S Masih. *The Patella: A Pictorial Review*. ARRS 2012, Educational Exhibit, ID# E341
52. I Bonilla-Yoon, S Masih, B Levine, K Chow, D Patel, **G Matcuk**. *The Morel-Lavallée Lesion: MR Features with Pathophysiologic Correlation*. RSNA 2011, Educational Exhibit, ID# 11001138
53. R Salibian, C Gottsegen, **G Matcuk**, E White, D Patel, D Forrester. *Synovial Plicae of the Knee: Normal Imaging Characteristics and Plica Syndrome*. RSNA 2011, Educational Exhibit, ID# 11004915

54. A Schein, D Patel, **G Matcuk**, E White, C Gottsegen, S Masih, D Forrester. *Hydroxyapatite Deposition Disease (HADD): Calcific Tendinosis and Beyond: Typical and Atypical Imaging Features and Presentations, Differential Diagnosis, and Treatment Options*. RSNA 2011, Educational Exhibit, ID# 11006718
55. R Lundquist, E White, C Gottsegen, **G Matcuk**, C Gottsegen, D Forrester. *Cruciate Ligament Avulsion: A Review with Orthopedic Input*. RSNA 2011, Educational Exhibit, ID# 11007124
56. R Krane, E White, S Christianakis, D Patel, **G Matcuk**, C Trebino, D Patel, D Forrester. *Sternoclavicular Joint Pathology: A Radiographic Review with Clinical Correlation*. RSNA 2011, Educational Exhibit, ID# 11016187
57. I Bonilla-Yoon, K Chow, S Masih, D Patel, **G Matcuk**. *MRI Features and Pathophysiologic Correlation of Morel-Lavallée Lesions*. ARRS 2011, Educational Exhibit, ID# 1558
58. G Peters, E Huang, C Gottsegen, **G Matcuk**, D Patel, E White, D Forrester. *Long Head of the Biceps Tendon—Anatomical Relationships, Imaging, Pathology, and Treatment*. RSNA 2010, Educational Exhibit, ID# 9003036
59. S Sugay, D Patel, **G Matcuk**, E White, C Gottsegen, D Forrester. *Appearance and Incorporation of Bone Grafts, Bone Graft Substitutes, and Cortical Strut Grafts*. RSNA 2010, Educational Exhibit, ID# 9003152
60. C Chakarun, T Learch, E White, L Menendez, E Brien, **G Matcuk**, D Patel. *Limb-Sparing Surgery for Distal Femoral and Proximal Tibial Bone Lesions: Imaging Findings with Intraoperative Correlation*. RSNA 2010, Educational Exhibit, ID# 9003396
61. C Chakarun, **G Matcuk**, E White, D Patel, S Masih, D Forrester. *Imaging Findings in Neuropathic Arthropathy (Charcot Joint)*. RSNA 2010, Educational Exhibit, ID# 9003426
62. A Kim, C Gottsegen, **G Matcuk**, D Forrester, D Patel, J Itamura, E White. *Acromioclavicular Joint Injuries and Reconstruction: A Multimodality Review of Expected Findings and Complications*. RSNA 2010, Educational Exhibit, ID# 9004522
63. E Chen, S Masih, K Chow, **G Matcuk**, D Patel. *Periosteal Reaction: A Pictorial Review of Various Patterns Associated with Specific Pathology*. RSNA 2010, Educational Exhibit, ID# 9004592
64. S Meiselman, D Patel, E White, J Itamura, T Learch, **G Matcuk**, L Tumyan, C Chakarun. *Elbow Arthroplasties and Osteoarticular Allografts: Indications, Imaging, and Complications*. RSNA 2010, Educational Exhibit, ID# 9004980
65. K Nagata, E White, A Prosper, **G Matcuk**, D Forrester, D Patel. *Innovative Approaches for Diagnostic and Therapeutic Image-Guided Interventions of the Foot and Ankle*. RSNA 2010, Educational Exhibit, ID# 9006467
66. Jafari, E White, **G Matcuk**, D Patel, D Forrester, S Masih, C Yurko. *Chronic Osteomyelitis: Spectrum of Imaging Findings and Guide to Differentiating from Entities with Similar Imaging Appearances*. RSNA 2010, Educational Exhibit, ID# 9012277
67. A Schein, E White, **G Matcuk**, D Patel, G Hatch, D Forrester. *Injuries of the Medial Collateral Ligament: A Multimodality Review*. RSNA 2010, Educational Exhibit, ID# 9013147
68. A Kim, C Gottsegen, **G Matcuk**, E White, J Itamura, D Forrester, D Patel. *Acromioclavicular Joint Reconstruction: A Multimodality Review of Expected Findings and Complications*. ASER 2010, Electronic Poster, ID#122

69. C Chakarun, E White, L Menendez, E Brien, **G Matcuk**, D Patel, T Learch. *Distal Femur Resection with Modular Endoprosthetic Reconstruction: Indications and Imaging Findings*. ARRS 2010, Educational Exhibit, ID#E438
70. C Earhart, D Patel, L Ihde, **G Matcuk**, E White. *Nerve Sheath Tumors: Classic Imaging Findings, Differentiating Features, and Potential Pitfalls*. ARRS 2010, Educational Exhibit, ID#E410
71. G Spanos, E White, **G Matcuk**, D Patel, S Masih, T Learch, A Hawari, D Forrester. *A Pictorial Review of Lesions of the Clavicle*. ARRS 2010, Educational Exhibit, ID#E408
72. C Earhart, D Patel, L Ihde, **G Matcuk**, E White. *Nerve Sheath Tumors: Classic Imaging Findings, Differentiating Features, and Potential Pitfalls*. RSNA 2009, Educational Exhibit, ID#8012708
73. G Spanos, E White, D Patel, **G Matcuk**, S Masih, T Learch, A Hawari, D Forrester. *A Pictorial Review of Lesions of the Clavicle*. RSNA 2009, Educational Exhibit, ID#8004081
74. C Whitlow, H Tchelepi, E Grant, **G Matcuk**. *Effect of Constant Angle Insonation versus Varied Angle Insonation on Measurements of Doppler Velocities*. RSNA 2009, Scientific Paper, ID#8013709
75. J Kuo, **G Matcuk**, M Schroeder, R Barbers, S Keesara. *Imaging of Lung Transplantation Complications*. ARRS 2007. Educational Exhibit. ID#E094
76. H Tchelepi, **G Matcuk**, E Grant. *Effect of Constant Angle Insonation vs. Varied Angle Insonation in Measuring Doppler Velocities*. SRU 2006. Research Grant Presentation.
77. J Grimm, **G Matcuk**, D Broumandi, D Facchini, S Palmer. *Minimally Invasive Imaging Guided Procedures: A Practical Update of Routine and Novel Body Interventional Procedures*. ARRS 2006. ID #2117
78. C Kam, J Pondrom, **G Matcuk**, M Kitazono, S Keesara. *Pitfalls in Diagnostic Magnetic Resonance Imaging of the Breast*. RSNA 2005. Education Exhibit, ID #4413277
79. J Pondrom, C Kam, **G Matcuk**, S Keesara. *A Practical Guide to Breast Biopsy Using Magnetic Resonance Imaging Guidance*. RSNA 2005. Education Exhibit, ID # 4413262
80. M Kuo, C Sirlin, B Chan, **G Matcuk**, C Ooi, X Chen. *Genome Wide Imaging Characterization of Hepatocellular Carcinoma*. RSNA 2004. Scientific Paper, Code: SSQ10-05
81. M Ho, E Yang, **G Matcuk**, R Tabibiazar, M Chen, P Tsao, T Quertermous. *Novel Molecular Markers of Human Endothelial Cells Identified by High-throughput Microarray Analysis*. American Heart Association "Young Investigator's Forum 2002" San Diego, CA, September 13, 2002
82. J Wohlgemuth, L Bruhn, N Sampas, **G Matcuk**, T Quertermous. *Angiogenic Endothelial Subtracted cDNA Microarrays* Cambridge Healthtech Institute "Impact of Genomics on Medicine" Amsterdam, Netherlands, May 2000

TEACHING LECTURES/CONFERENCES – CEDARS-SINAI MEDICAL CENTER

1. Musculoskeletal Jeopardy Case Conference, Radiology Resident Conference, April 24, 2020.
2. Knee Imaging, Part 1. Radiology Resident Conference, May 29, 2020.
3. Knee Imaging, Part 2. Radiology Resident Conference, July 13, 2020.
4. Knee Imaging, Part 3. Radiology Resident Conference, September 01, 2020.

5. Calcium Pyrophosphate Dihydrate (CPPD) Deposition Disease. Rheumatology Conference, October 7, 2020.

TEACHING LECTURES/CONFERENCES – UNIVERSITY OF SOUTHERN CALIFORNIA

1. Musculoskeletal Core Board Review, Radiology Resident Conference, March 23, 2020.
2. Wrist Imaging, Part 3. Radiology Resident Conference, January 27, 2020.
3. Wrist Imaging, Part 2. Radiology Resident Conference, October 28, 2019.
4. Wrist Imaging, Part 1. Radiology Resident Conference, August 26, 2019.
5. X-ray Production, Interaction, & Radiography. Radiology Resident Conference, August 09, 2019.
6. Radiology Residency Tips. Radiology Resident Conference, July 22, 2019.
7. Radiology Club - Arthritis. Radiology Resident Conference, May 10, 2019.
8. Musculoskeletal Core Board Review, Part 2. Radiology Resident Conference, April 29, 2019.
9. Musculoskeletal Core Board Review, Part 1. Radiology Resident Conference, March 4, 2019.
10. Knee Imaging, Part 3. Radiology Resident Conference, January 07, 2019.
11. Radiology: RA and Inflammatory Arthritis. Medical Student Year II Musculoskeletal System Lecture, December 10, 2018.
12. RSNA Diagnosis Live. Faculty Meeting Presentation, December 06, 2018.
13. Musculoskeletal Tumor Imaging. Orthopaedic Resident Core Curriculum, November 16, 2018.
14. Knee Imaging, Part 2. Radiology Resident Conference, October 22, 2018.
15. X-ray Production, Interaction, & Radiography. Radiology Resident Conference, August 13, 2018.
16. Knee Imaging, Part 1. Radiology Resident Conference, July 16, 2018.
17. Musculoskeletal CORE Review, Part 2. Radiology Resident Conference, May 07, 2018.
18. Radiology Club - Arthritis. Radiology Resident Conference, May 02, 2018.
19. Evaluation of knee cartilage diurnal, activity, and BMI-related variations using quantitative T2 mapping MRI and Fitbit activity tracking. Radiology Grand Rounds, April 26, 2018.
20. Quantitative Assessment of Synovitis and Therapy Response of Inflammatory Arthritis with Contrast Enhanced Ultrasound Compared with Dynamic Contrast-Enhanced MRI. Radiology Grand Rounds, April 26, 2018.
21. Musculoskeletal CORE Review, Part 1. Radiology Resident Conference, March 12, 2018.
22. Musculoskeletal Tumor Imaging. Radiology Resident Conference, January 29, 2018.
23. Pelvis and Hip Imaging, Part 2. Radiology Resident Conference, November 20, 2017.
24. Pelvis and Hip Imaging, Part 1. Radiology Resident Conference, September 13, 2017.
25. Orthopedic Hardware and Complications. Radiology Resident Conference, July 31, 2017.
26. X-ray Production, Interaction, & Radiography. Radiology Resident Conference, July 26, 2017.

27. Musculoskeletal R3 Board Review, Part 2. Radiology Resident Conference, May 15, 2017.
28. Arthritis. Radiology Club Resident Conference, April 03, 2017.
29. Musculoskeletal R3 Board Review, Part 1. Radiology Resident Conference, April 03, 2017.
30. Elbow Imaging. Resident Conference, February 27, 2017.
31. X-ray Production, Interaction, & Radiography. Radiology Resident Conference, February 1, 2017.
32. Shoulder Imaging, Part 3. Resident Conference, December 5, 2016.
33. Shoulder Imaging, Part 2. Resident Conference, October 24, 2016.
34. Shoulder Imaging, Part 1. Resident Conference, August 1, 2016.
35. Physics – X-ray Production. Radiology Resident Conference, July 27, 2016.
36. Musculoskeletal Tumor Imaging. Orthopaedic Resident Core Curriculum, July 1, 2016.
37. MRI Shoulder Measurements and Rotator Cuff Tears. Radiology Grand Rounds, June 23, 2016.
38. Quantitative Assessment of Synovitis and Therapy Response in Inflammatory Arthritis with Contrast Enhanced Ultrasound - Introduction. Radiology Grand Rounds, June 23, 2016.
39. Musculoskeletal Radiology Cases. Radiology Resident Conference, May 16, 2016.
40. Arthritis. Radiology Club Resident Conference, April 20, 2016.
41. Musculoskeletal Radiology Cases. Radiology Resident Conference, March 28, 2016.
42. Physics – X-ray Production. Radiology Resident Conference, February 11, 2016.
43. Musculoskeletal Radiology Cases. Radiology Resident Conference, January 27, 2016.
44. Ankle and Foot Imaging, Part 2. Radiology Resident Conference, September 28, 2015.
45. Ankle and Foot Imaging, Part 1. Radiology Resident Conference, August 31, 2015.
46. X-ray Production. Radiology Club Resident Conference, July 30, 2015.
47. ABCs of Musculoskeletal MRI Case Conference. Radiology Resident Conference, July 20, 2015.
48. Bone Marrow Cellularity MRI Calculation and Correlation with Bone Marrow Biopsy. Radiology Grand Rounds, May 8, 2015.
49. Inter- and intra-observer variability of acetabular labral tear identification and description and measures of femoroacetabular impingement (FAI) on hip 3T MR arthrograms. Radiology Grand Rounds, May 8, 2015.
50. Musculoskeletal R3 Board Review. Radiology Resident Conference, April 27, 2015.
51. Arthritis. Radiology Club Resident Conference, April 1, 2015.
52. Malignant Bone Tumors. Radiology Club Resident Conference, March 18, 2015.
53. Knee Imaging, Part 2. Radiology Resident Conference, March 9, 2015.
54. Knee Imaging, Part 1. Radiology Resident Conference, November 17, 2014.

55. Pelvic and Hip Imaging, Part 2. Radiology Resident Conference, November 3, 2014.
56. Pelvic and Hip Imaging, Part 1. Radiology Resident Conference, July 28, 2014.
57. X-ray Production. Radiology Club Resident Conference, July 16, 2014.
58. Orthopedic Hardware and Complications. Radiology Resident Conference, July 14, 2014.
59. Musculoskeletal CORE Exam Review #2. Radiology Resident Conference, April 28, 2014.
60. Musculoskeletal CORE Exam Review #1. Radiology Resident Conference, March 31, 2014.
61. Hyperpolarization MRI. USC Viterbi HTE-Radiology Symposium. March 27, 2014.
62. Radiofrequency Coil Design for Multinuclear Spectroscopy. USC Viterbi HTE-Radiology Symposium. March 27, 2014.
63. Skeletal Trauma. Radiology Resident “Brandt & Helms” Conference, March 5, 2014.
64. Wrist Imaging, Part 3. Radiology Resident Conference, February 24, 2014.
65. Wrist Imaging, Part 1. Radiology Resident Conference, November 18, 2013.
66. Musculoskeletal Jeopardy Case Conference #5. Radiology Resident Conference, September 30, 2013.
67. Musculoskeletal Senior Board Review. Radiology Resident Conference, August 27, 2013.
68. Are You Smarter Than A Med Student Case Conference. Radiology Resident Conference, July 29, 2013.
69. Superolateral Hoffa’s Fat Pad Edema and Patellofemoral Maltracking. Radiology Grand Rounds, May 23, 2013.
70. Musculoskeletal Oral Board Review, Part 3. Radiology Resident Conference, May 20, 2013.
71. Musculoskeletal Oral Board Review, Part 2. Senior Radiology Resident Review, April 16, 2013.
72. Musculoskeletal Oral Board Review, Part 1. Radiology Resident Conference, April 1, 2013.
73. Skeletal Trauma. Radiology Resident “Brandt & Helms” Conference, March 13, 2013.
74. ABR CORE Exam Study Guide MSK Review. Resident Conference, January 28, 2013.
75. Shoulder Imaging, Part 2. Resident Conference, November 5, 2012.
76. Shoulder Imaging, Part 1. Resident Conference, October 1, 2012.
77. Musculoskeletal Pursuit Case Conference. Resident Conference, August 20, 2012.
78. ACR In-Service Exam 2012 Musculoskeletal Radiology Review. Resident Conference, June 11, 2012.
79. Musculoskeletal Oral Board Review, Part 2. Radiology Resident Conference, May 7, 2012.
80. Musculoskeletal Oral Board Review, Part 1. Radiology Resident Conference, April 2, 2012.
81. Skeletal Trauma. Radiology Resident “Brandt & Helms” Conference, March 7, 2012.
82. Elbow Imaging. Radiology Resident Conference, February 13, 2012.

83. Musculoskeletal Jeopardy Case Conference #4. Radiology Resident Conference, January 12, 2012.
84. Knee Imaging, Part 3. Radiology Resident Conference, December 20, 2011.
85. Knee Imaging, Part 2. Radiology Resident Conference, October 31, 2011.
86. Knee Imaging, Part 1. Radiology Resident Conference, September 26, 2011.
87. ACR In-Service Exam 2011 Musculoskeletal Radiology Review. Resident Conference, July 11, 2011.
88. Musculoskeletal Oral Board Review. Radiology Resident Conference, May 9, 2011.
89. Mock Oral Board – Musculoskeletal Radiology. Radiology Residents, April 29, 2011.
90. Skeletal Trauma. Radiology Resident “Brandt & Helms” Conference, March 29, 2011.
91. Ankle and Foot Imaging, Part 2. Radiology Resident Conference, March 28, 2011.
92. MRI of the Ankle and Foot. Radiology Fellow MRI Conference, February 14, 2011.
93. Ankle and Foot Imaging, Part 1. Radiology Resident Conference, January 27, 2011.
94. Pelvis and Hip Imaging, Part 3. Radiology Resident Conference, December 14, 2010.
95. MRI of the Pelvis and Hip. Radiology Fellow MRI Conference, November 16, 2010.
96. Pelvis and Hip Imaging, Part 2. Radiology Resident Conference, November 15, 2010.
97. Pelvis and Hip Imaging, Part 1. Radiology Resident Conference, October 4, 2010.
98. ABCs of Musculoskeletal MRI Case Conference. Radiology Resident Conference, August 23, 2010.
99. Orthopedic Hardware and Complications. Radiology Resident Conference, August 16, 2010.
100. Musculoskeletal Jeopardy Case Conference #3. Radiology Resident Conference, May 24, 2010.
101. Musculoskeletal Oral Board Review, Part 3. Radiology Resident Conference, April 26, 2010.
102. Mock Oral Board – Musculoskeletal Radiology. Radiology Residents, April 23, 2010.
103. Musculoskeletal Oral Board Review, Part 2. Radiology Resident Conference, March 29, 2010.
104. Hand and Wrist Imaging, Part 2. Radiology Resident Conference, March 1, 2010.
105. Hand and Wrist Imaging, Part 1. Radiology Resident Conference, December 14, 2009.
106. Musculoskeletal Jeopardy Case Conference #2. Radiology Resident Conference, November 9, 2009.
107. Shoulder Imaging Part 3. Radiology Resident Conference, October 5, 2009.
108. Shoulder Imaging Part 2. Radiology Resident Conference, August 31, 2009.
109. Shoulder Imaging Part 1. Radiology Resident Conference, August 3, 2009.
110. Musculoskeletal Jeopardy Case Conference #1. Radiology Resident Conference, June 15, 2009.

CONTRIBUTIONS

1. **G Matcuk** and R Radin. *In Memoriam: Deborah M. Forrester, MD*. Radiology. July 2015; 276(1):314.

2. R Verma, **G Matcuk**, E White. *Meniscal Ossicle*. ACR Case-In-Point. October 16, 2009.
3. L Tierney, S McPhee, M Papadakis, et. al. *Current Medical Diagnosis & Treatment 2002*. Lange Medical Books/McGraw-Hill, New York, NY, 2002. Internet Resources.

ACTIVITIES & VOLUNTEERING

- 2014-Current **Pennsylvania Governor's School for the Sciences**, Class Agent for alumni fundraising. Alumni mentor. Help guide graduate of program through senior year of high school and college admissions process.
- 2017-2020 **Beverly Hills School District**, Science Fair Judge. Evaluate and score science fair projects by BHUSD students.
- 2007-2008 **California Radiological Society**, USC Resident and Fellow Section Representative
- 2000-2001 **Stanford Medical Student Association**, Third Year Representative
- 1999-2000 **Student Rounds Coordinator**. Scheduled clinical students to give weekly case presentations to preclinical students during a provided dinner.
- Summer 2000 **Stanford Medical Youth Science Program**. Mentor
- Spring 1999 **Stanford Green Team**. Taught a third grade class from an underprivileged elementary school about health and the human body and encouraged interest in science and medicine
- 1997-1998 **President, Doctors of Carnegie Society (DOCS)**. Responsible for coordinating and overseeing all activities and committees, handling budget information, communicating with officers and members, and properly representing the organization
- 1994-1998 **Carnegie Mellon University Varsity Swimming Team**. Four year letter winner.
- 1994-1998 **Carnegie Mellon University Varsity Track and Field Team**. Four year letter winner.
- 1996-1997 **Secretary, Doctors of Carnegie Society (DOCS)**. Responsible for collecting dues, helping set up meetings, recording minutes, and creating web page and b-board.