

# Curriculum Vitae and Bibliography

**Catherine C. Roberts, M.D.**

## Personal Information

Place of Birth: Phoenix, AZ  
Citizenship: United States of America

## Present Professional Position and Academic Rank

**Musculoskeletal Radiologist, Section Chief** – University Medical Center of Southern Nevada, Las Vegas, NV 08/2024 - Present

**Clinical Professor of Radiology** – University of Arizona College of Medicine 03/2016 - Present

**Clinical Professor** – Kirk Kerkorian School of Medicine at UNLV 10/2024 - Present

## Previous Professional Position

**Musculoskeletal Radiologist** – Virtual Radiologic, Eden Prairie, MN 01/2018 - 07/2024

**Musculoskeletal Radiologist** – Mayo Clinic, Scottsdale, AZ 06/2002 - 12/31/2017

## Previous Leadership Positions and Academic Rank

**Professor of Radiology** – Mayo Clinic College of Medicine and Science 01/2013 - 12/31/2017

**Associate Dean for Faculty Affairs** - Mayo Medical School, Mayo Clinic College of Medicine and Science, Department of Education Administration, Mayo Clinic, Rochester, Minnesota 11/2013 - 07/2016

**Associate Dean** - Mayo Clinic School of Health Sciences, Mayo Clinic College of Medicine and Science, Department of Education Administration, Scottsdale, Arizona 01/2006 - 11/2014

**Patient Safety Officer** - Quality Management Services, Division of Support Services, Department of Administration, Mayo Clinic, Scottsdale, Arizona 01/2008 - 01/2016

**Assistant Director** - Department of Contracting and Payer Relations, Department of Administration, Mayo Clinic Board of Governors, Scottsdale, Arizona 01/2013 - 06/2013

**Medical Director** - Department of Contracting and Payer Relations, Department of Administration, Mayo Clinic Board of Governors, Scottsdale, Arizona 07/2013 - 07/2017

**Associate Professor of Radiology** - Mayo Clinic College of Medicine and Science

05/2007 - 12/2012

**Assistant Professor of Radiology** - Mayo Clinic College of Medicine and Science

04/2003 - 04/2007

## Education

|                                                                                                                                   |             |
|-----------------------------------------------------------------------------------------------------------------------------------|-------------|
| Arizona State University – B.S., Zoology                                                                                          | 1987 - 1990 |
| University of Arizona College of Medicine – M.D.                                                                                  | 1991 - 1996 |
| St. George's Hospital, University of London, England – Research Fellowship, funded by a grant from the American Heart Association | 1993 - 1994 |
| Mayo Clinic - Transitional Internship                                                                                             | 1996 - 1997 |
| University of Arizona Health Sciences Center – Radiology Residency                                                                | 1997 - 2001 |
| Mayo Clinic – Musculoskeletal Radiology Fellowship                                                                                | 2001 - 2002 |

## Certifications

### American Board of Preventive Medicine

|                      |             |
|----------------------|-------------|
| Clinical Informatics | 2016 - 2029 |
|----------------------|-------------|

### American Board of Quality Assurance and Utilization Review Physicians, Inc. (ABQAURP)

|                                                                                        |             |
|----------------------------------------------------------------------------------------|-------------|
| Certified in Health Care Quality and Management (CHCQM)/Patient Safety/Risk Management | 2015 - 2021 |
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### American Board of Radiology (ABR)

|                      |                              |
|----------------------|------------------------------|
| Diagnostic Radiology | 2001 – Present<br>(Lifetime) |
|----------------------|------------------------------|

### American Society of Quality (ASQ)

|                                |             |
|--------------------------------|-------------|
| Certified Six Sigma Black Belt | 2018 - 2028 |
|--------------------------------|-------------|

### Certifying Commission in Medical Management

|                                     |             |
|-------------------------------------|-------------|
| Certified Physician Executive (CPE) | 2014 - 2024 |
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### International Board for Certification of Safety Managers

|                                  |             |
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| Certified Patient Safety Officer | 2018 - 2021 |
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### Utilization Review Accreditation Commission (URAC)

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|----------------------------------------------------|-------------|
| Physician's Review Network Certified Peer Reviewer | 2016 - 2018 |
|----------------------------------------------------|-------------|

### Mayo Clinic Quality Academy

|                                                        |      |
|--------------------------------------------------------|------|
| Mayo Clinic Quality Fellow: Bronze Level Certification | 2010 |
| Mayo Clinic Quality Fellow: Silver Level Certification | 2010 |
| Mayo Clinic Quality Fellow: Gold Level Certification   | 2014 |

## Additional Education

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|--------------------------------------------------------------------------------------------------------------|---------|
| RSNA Introduction to Research Program<br>Elected Participant<br>American Roentgen Ray Society Annual Meeting | 05/1999 |
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New Orleans, Louisiana

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|------------------------------------------------------|---------|
| Pay for Performance<br>American College of Radiology | 07/2007 |
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| Quality Academy: Process Improvement TEAMS Training Course<br>Arizona State University<br>Tempe, Arizona | 07/2007 - 09/2007 |
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|--------------------------------------|---------|
| Crucial Conversations<br>Mayo Clinic | 09/2007 |
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| Customer Centered Culture Methodology<br>Mayo Clinic<br>Scottsdale, Arizona | 10/2007 |
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|----------------------------------------|---------|
| Creating a Just Culture<br>Mayo Clinic | 02/2008 |
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| The 8th Habit: From Effectiveness to Greatness - Stephen R. Covey<br>Mayo Clinic | 05/2008 |
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| Emerging Leaders Roundtable Series (Dr. V. Trastek)<br>Mayo Clinic | 09/2009 - 11/2009 |
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| Senior Leadership Mentor Series (Dr. L. Milde)<br>Mayo Clinic | 10/2009 - 12/2009 |
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|--------------------------------------------------------------------------------------|---------|
| ACPE Physician in Management - Marketing<br>American College of Physician Executives | 11/2009 |
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| ACPE Physician in Management - Negotiation<br>American College of Physician Executives | 11/2009 |
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| AAMC Mid-Career Women Faculty Professional Development<br>Seminar<br>Association of American Medical Colleges<br>Phoenix, Arizona | 12/2009 |
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| ACPE Informatics: Successful Information Technology Change<br>Management; High Tech and High Reliability<br>American College of Physician Executives | 12/2009 |
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| ACPE Physician in Management - Influence<br>American College of Physician Executives | 12/2009 |
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| Accelerated Leader Program (Dr. V. Trastek)<br>Mayo Clinic                                                                      | 03/2010 - 11/2010 |
| ACPE Three Faces of Quality<br>American College of Physician Executives                                                         | 05/2011 - 06/2011 |
| IHI Patient Safety Executive Development Program<br>Institute for Healthcare Improvement (IHI)<br>Boston, Massachusetts         | 09/2011           |
| ACPE Managing Physician Performance<br>American College of Physician Executives                                                 | 06/2012 - 07/2012 |
| Leadership Coaching (Dean Newlund)<br>Mission Facilitators International, Inc.                                                  | 09/2012           |
| ACPE Effective Physician Leadership<br>American College of Physician Executives                                                 | 10/2012           |
| ACPE MetaLeadership<br>American College of Physician Executives                                                                 | 10/2012           |
| ACPE Health Law<br>American College of Physician Executives                                                                     | 10/2012 - 11/2012 |
| ACPE Science of High Reliability<br>American College of Physician Executives                                                    | 11/2012           |
| Certified Physician Executive (CPE) Certification Program<br>Certifying Commission on Medical Management<br>Scottsdale, Arizona | 11/2013           |
| Benefits Realization<br>American Association for Physician Leadership (formerly ACPE)                                           | 01/2014           |
| Communication, Change Management and Training<br>American Association for Physician Leadership (formerly ACPE)                  | 01/2014           |
| Controlled Medical Technology and Semantics<br>American Association for Physician Leadership (formerly ACPE)                    | 01/2014           |
| Electronic Prescribing<br>American Association for Physician Leadership (formerly ACPE)                                         | 2014              |

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| Implementation and Support<br>American Association for Physician Leadership (formerly ACPE)                                               | 01/2014 |
| Molding Culture<br>American Association for Physician Leadership (formerly ACPE)                                                          | 01/2014 |
| Optimization: Post-Go Live<br>American Association for Physician Leadership (formerly ACPE)                                               | 01/2014 |
| Organizational Culture, Planning and Strategy<br>American Association for Physician Leadership (formerly ACPE)                            | 01/2014 |
| Social Media and mHealth Care<br>American Association for Physician Leadership (formerly ACPE)                                            | 01/2014 |
| The CMO-CIO Partnership<br>American Association for Physician Leadership (formerly ACPE)                                                  | 01/2014 |
| The Fine Art of Asking Why<br>American Association for Physician Leadership (formerly ACPE)                                               | 01/2014 |
| ACPE Integrated Health Systems: Physician Engagement<br>American College of Physician Executives (ACPE)                                   | 07/2014 |
| Health Information Technology Leadership Certification<br>American Association for Physician Leadership                                   | 02/2015 |
| Utilization Management Peer Reviewer Training<br>American Board of Quality Assurance and Utilization Review<br>Physicians, Inc. (ABQAURP) | 11/2016 |
| Certified Information Systems Security Professional (CISSP)<br>Training<br>StackSkills                                                    | 03/2017 |

## Honors and Awards

|                                                                                            |                   |
|--------------------------------------------------------------------------------------------|-------------------|
| <b>Alpha Epsilon Delta</b> - Arizona State University                                      | 01/1987           |
| <b>Golden Key National Honor Society</b> - Arizona State University                        | 01/1988           |
| <b>Phi Kappa Phi</b> - Arizona State University                                            | 01/1989           |
| <b>Summa Cum Laude</b> - Arizona State University                                          | 01/1990           |
| <b>Medical School Honors for 15 courses</b> - University of Arizona<br>College of Medicine | 01/1991 - 01/1993 |

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| <b>12th Annual Arizona Health Sciences Center Medical Student Research Forum, First Prize</b> - University of Arizona College of Medicine             | 01/1992           |
| <b>American Federation of Clinical Research Subspecialty Award, Best Abstract in Health Care Research</b> - University of Arizona College of Medicine | 01/1993           |
| <b>Robert F. Allen Memorial Award for Research</b> - University of Arizona College of Medicine                                                        | 01/1993 - 01/1995 |
| <b>A.C. Simon Memorial Award for Academic Merit</b> - University of Arizona College of Medicine                                                       | 01/1996           |
| <b>Alpha Omega Alpha Medical Honor Society</b> - University of Arizona College of Medicine                                                            | 01/1996           |
| <b>Honors and Awards Committee Excellence in Research Award</b> - University of Arizona College of Medicine                                           | 01/1996           |
| <b>Janet M. Glasgow Memorial Achievement Citation Award</b> - University of Arizona College of Medicine                                               | 01/1996           |
| <b>Cum Laude Award, Scientific Exhibit: Midnight Manifestations of Head Trauma</b> - American Society of Neuroradiology                               | 05/2001           |
| <b>Silver Medal, Scientific Exhibit: Unusual Appearances of Benign and Malignant Disease on Breast MRI</b> - American Roentgen Ray Society            | 05/2003           |
| <b>Cum Laude Award, Scientific Exhibit: Assessment of the Delta Reverse Shoulder Arthroplasty</b> - Radiological Society of North America             | 11/2005           |
| <b>AUR-Philips Faculty Development Program</b> - Association of University Radiologists                                                               | 04/2006           |
| <b>Certificate of Merit, Scientific Exhibit: Radiology of Hip Replacement Hardware</b> - American Roentgen Ray Society                                | 05/2006           |
| <b>First Prize, Case Reports; Mentor of first author Fellow</b> - Academic Excellence Day, Mayo Clinic                                                | 05/2006           |
| <b>Bronze Medal, Scientific Exhibit: Demystifying MRI of the Wrist (4th Author)</b> - American Roentgen Ray Society                                   | 05/2007           |
| <b>First Prize, Case Reports; Mentor of first author Fellow</b> - Academic Excellence Day, Mayo Clinic                                                | 05/2007           |
| <b>Silver Medal, Scientific Exhibit: MRI Assessment of Bone Marrow</b> - American Roentgen Ray Society                                                | 05/2007           |
| <b>Highly Commended for Diagnostic and Surgical Imaging Anatomy: Musculoskeletal</b> - British Medical Association Medical Book Competition           | 09/2007           |
| <b>Certificate of Merit, Scientific Exhibit: Demystifying MRI of the Wrist (3rd Author)</b> - Radiological Society of North America                   | 11/2007           |

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| <b>Magna Cum Laude Award, Scientific Exhibit: Radiology of Small Joint Replacement Hardware (3rd Author)</b> - Radiological Society of North America | 11/2007 |
| <b>Service Excellence Team Award</b> - Mayo Clinic in Arizona, Mayo Clinic                                                                           | 10/2009 |
| <b>Volunteer Service Award</b> - American Board of Radiology                                                                                         | 2014    |
| <b>Volunteer Service Award</b> - American Board of Radiology                                                                                         | 2015    |
| <b>Teacher of the Year (Nominee)</b> - Department of Radiology, Mayo Clinic                                                                          | 05/2016 |
| <b>Teacher of the Year (Nominee)</b> - Department of Radiology, Mayo Clinic                                                                          | 05/2017 |
| <b>Top 10% Most Cited Clinician in 2022</b> - Doximity                                                                                               | 2023    |

## **Professional and Community Memberships, Societies, and Services**

### **Professional Memberships and Services**

|                                                                                           |                   |
|-------------------------------------------------------------------------------------------|-------------------|
| Alliance of Academic Musculoskeletal Radiologists                                         |                   |
| Founding Board Member                                                                     | 05/2014 - 05/2016 |
| Alpha Omega Alpha Honor Medical Society                                                   |                   |
| Member                                                                                    | 01/1996 - Present |
| American Academy of Orthopaedic Surgeons                                                  |                   |
| AAOS Clinical Practice Guideline on the Treatment of Glenohumeral Joint Osteoarthritis    |                   |
| American College of Radiology Representative                                              | 06/2018 - 08/2019 |
| AAOS Clinical Practice Guideline on Management of Postoperative Surgical Site Infection   |                   |
| American College of Radiology Representative                                              | 12/2017 - 08/2018 |
| AAOS Clinical Practice Guideline on Osteoarthritis of the Hip                             |                   |
| American College of Radiology Representative                                              | 10/2016 - 04/2017 |
| AAOS Glenohumeral Joint Osteoarthritis CPG Key Informant Panel                            |                   |
| American College of Radiology Representative                                              | 09/2018 - 12/2019 |
| Appropriate Use Criteria Writing Panel                                                    |                   |
| Management of Osteoarthritis of the Hip                                                   |                   |
| Member                                                                                    | 12/2016 - 03/2017 |
| Committee on Evidence-Based Quality and Value                                             |                   |
| American College of Radiology Representative                                              | 06/2015 - 12/2021 |
| Musculoskeletal Tumor Society Systematic Review                                           |                   |
| American College of Radiology Representative                                              | 01/2016 - 01/2018 |
| Systematic Review on The Use of Imaging Prior to Referral to a Musculoskeletal Oncologist |                   |
| Workgroup Member                                                                          | 03/2016 - 11/2017 |
| American Association for Women Radiologists                                               |                   |

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| Member                                                               | 01/1997 - 12/2004 |
| American Board of Medical Specialties                                |                   |
| Multi-Specialty MOC Portfolio Program: Clinical Investigator Pathway |                   |
| Committee Member                                                     | 04/2013 - 12/2015 |
| American Board of Radiology                                          |                   |
| MOC Summit on Radiation Safety                                       |                   |
| AUR Representative                                                   | 08/2008           |
| Musculoskeletal                                                      |                   |
| Oral Boards                                                          |                   |
| Examiner                                                             | 06/2007           |
| Examiner                                                             | 05/2010           |
| Examiner                                                             | 05/2012           |
| Examiner                                                             | 06/2013           |
| Online Longitudinal Assessment MSK Committee                         |                   |
| Member                                                               | 11/2016 – 03/2023 |
| Summit on Practice Quality Improvement                               |                   |
| AUR Representative                                                   | 08/2007           |
| American College of Physician Executives                             |                   |
| Member                                                               | 11/2009 - 11/2010 |
| American College of Radiology                                        |                   |
| Member                                                               | 01/1997 - 12/2021 |
| Appropriateness Criteria Committee, Musculoskeletal                  |                   |
| Member                                                               | 04/2007 – 04/2014 |
| Panel Chair                                                          | 04/2014 - 05/2020 |
| Acute Hand and Wrist Trauma                                          |                   |
| Member                                                               | 03/2008 - 06/2008 |
| Member                                                               | 05/2013 - 11/2013 |
| Acute Hip Pain - Suspected Hip Fracture                              |                   |
| Member                                                               | 07/2012 - 04/2013 |
| Acute Shoulder Pain                                                  |                   |
| Member                                                               | 03/2010 - 05/2010 |
| Acute Trauma to the Ankle                                            |                   |
| Member                                                               | 01/2014 - 05/2014 |
| Acute Trauma to the Foot                                             |                   |
| Member                                                               | 06/2010 - 08/2010 |
| Member                                                               | 03/2014 - 08/2014 |
| Acute Trauma to the Knee                                             |                   |
| Member                                                               | 09/2008 - 10/2008 |
| Member                                                               | 10/2010 - 01/2011 |
| Avascular Necrosis of the Hip                                        |                   |



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|--------------------------------------------------------------------------------------------|-------------------|
| Member                                                                                     | 10/2008 - 02/2009 |
| Bone Tumors                                                                                |                   |
| Member                                                                                     | 12/2008 - 02/2009 |
| Chronic Ankle Pain                                                                         |                   |
| Member                                                                                     | 03/2009 - 06/2009 |
| Member                                                                                     | 03/2012 - 08/2012 |
| Chronic Elbow Pain                                                                         |                   |
| Member                                                                                     | 01/2008 - 03/2008 |
| Member                                                                                     | 03/2011 - 06/2011 |
| Panel Chair                                                                                | 11/2014 - 04/2015 |
| Chronic Foot Pain                                                                          |                   |
| Member                                                                                     | 08/2008 - 10/2008 |
| Member                                                                                     | 06/2011 - 08/2011 |
| Member                                                                                     | 11/2012 - 06/2013 |
| Panel Chair                                                                                | 01/2018 - 07/2018 |
| Chronic Hip Pain                                                                           |                   |
| Member                                                                                     | 06/2008 - 08/2008 |
| Member                                                                                     | 05/2011 - 07/2011 |
| Member                                                                                     | 07/2015 - 12/2015 |
| Panel Chair                                                                                | 06/2016 - 12/2016 |
| Chronic Neck Pain                                                                          |                   |
| Member                                                                                     | 10/2007 - 12/2007 |
| Member                                                                                     | 12/2009 - 02/2010 |
| Chronic Wrist Pain                                                                         |                   |
| Member                                                                                     | 11/2008 - 02/2009 |
| Panel Chair                                                                                | 04/2015 - 04/2017 |
| Follow-up of Malignant or Aggressive Musculoskeletal Tumors                                |                   |
| Member                                                                                     | 10/2014 - 08/2015 |
| Follow-up of Malignant or Aggressive Musculoskeletal Tumors<br>and Metastatic Bone Disease |                   |
| Member                                                                                     | 08/2007 - 02/2008 |
| Member                                                                                     | 07/2010 - 01/2011 |
| Imaging after Shoulder Arthroplasty                                                        |                   |
| Panel Chair                                                                                | 07/2015 - 02/2016 |
| Primary Author                                                                             | 02/2019 - 10/2021 |
| Imaging after Total Knee Arthroplasty                                                      |                   |
| Member                                                                                     | 08/2010 - 01/2011 |
| Panel Chair                                                                                | 08/2015 - 01/2017 |
| Metastatic Bone Disease                                                                    |                   |
| Member                                                                                     | 08/2008 - 06/2009 |
| Member                                                                                     | 05/2011 - 11/2011 |

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|----------------------------------------------------------------------------|-------------------|
| Nontraumatic Knee Pain                                                     |                   |
| Member                                                                     | 04/2008 - 06/2008 |
| Osteomyelitis in Patients with Diabetes Mellitus                           |                   |
| Member                                                                     | 01/2008 - 03/2008 |
| Member                                                                     | 07/2011 - 11/2011 |
| Osteonecrosis of the Hip                                                   |                   |
| Member                                                                     | 10/2014 - 08/2015 |
| Osteoporosis and Bone Mineral Density                                      |                   |
| Member                                                                     | 04/2007 - 06/2007 |
| Member                                                                     | 10/2009 - 02/2010 |
| Panel Chair                                                                | 07/2015 - 03/2016 |
| Primary Bone Tumors                                                        |                   |
| Member                                                                     | 09/2012 - 06/2013 |
| Shoulder Pain - Atraumatic                                                 |                   |
| Member                                                                     | 01/2015 - 07/2015 |
| Panel Chair                                                                | 06/2017 - 04/2018 |
| Shoulder Pain - Traumatic                                                  |                   |
| Member                                                                     | 01/2014 - 10/2014 |
| Soft Tissue Masses                                                         |                   |
| Member                                                                     | 06/2009 - 08/2009 |
| Member                                                                     | 06/2012 - 11/2012 |
| Stress/Insufficiency Fracture, Including Sacrum, Excluding Other Vertebrae |                   |
| Member                                                                     | 08/2007 - 12/2007 |
| Member                                                                     | 11/2010 - 03/2011 |
| Panel Chair                                                                | 02/2016 - 11/2016 |
| Suspected Ankle Fractures                                                  |                   |
| Member                                                                     | 12/2008 - 01/2009 |
| Suspected Osteomyelitis                                                    |                   |
| Member                                                                     | 12/2011 - 02/2012 |
| Committee on Body Imaging (Musculoskeletal Radiology)                      |                   |
| Chair                                                                      | 06/2019 - 2/2021  |
| Member                                                                     | 06/2015 - 06/2019 |
| Committee on Safety - Quality and Safety                                   |                   |
| Member                                                                     | 06/2010 - 05/2015 |
| Continuous Professional Improvement Musculoskeletal Radiology              |                   |
| Panel Member                                                               | 01/2004 - 12/2014 |
| Musculoskeletal Module #48                                                 |                   |
| Member                                                                     | 01/2004 - 05/2004 |
| Musculoskeletal Module #57                                                 |                   |
| Co-Chairman                                                                | 08/2005 - 09/2006 |
| Musculoskeletal Module #66                                                 |                   |

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| Co-Chairman                                             | 09/2006 - 03/2007 |
| Musculoskeletal Module #76                              |                   |
| Member                                                  | 08/2008 - 11/2008 |
| Self-Assessment Module Musculoskeletal Radiology 2010   |                   |
| Member                                                  | 08/2010           |
| Dose Index Registry in Digital Radiography Committee    |                   |
| Member                                                  | 12/2018 - 12/2021 |
| General Radiology Improvement Database (GRID) Committee |                   |
| Member                                                  | 08/2007 - 05/2012 |
| Member                                                  | 10/2018 - 12/2021 |
| American Heart Association                              |                   |
| Research Fellowship Advisory Committee                  |                   |
| Member                                                  | 01/1994 - 01/1995 |
| American Medical Association                            |                   |
| Member                                                  | 01/1991 - Present |
| AMA Women Physicians Section (AMA-WPS)                  |                   |
| House of Delegates Handbook Review Committee Member     | 10/2019 - 01/2020 |
| Radiology Specialty Council                             | 10/2019           |
| American Medical Informatics Association                |                   |
| Member                                                  | 03/2016 - 12/2019 |
| Abstract Reviewer                                       | 04/2016 - 12/2019 |
| Scientific Program Committee Member                     | 10/2017 - 12/2019 |
| Education Workgroup                                     |                   |
| Member                                                  | 03/2016 - 12/2019 |
| American Medical Women's Association                    |                   |
| Member                                                  | 01/1992 - 01/1995 |
| American Roentgen Ray Society                           |                   |
| Member                                                  | 01/1997 - 12/2016 |
| 104th Annual Meeting                                    |                   |
| Cases of the Day                                        |                   |
| Coordinator                                             | 01/2004           |
| Scientific Session (Hip and Spine)                      |                   |
| Co-Moderator                                            | 05/2004           |
| 105th Annual Meeting                                    |                   |
| Scientific Session (Hips and Pelvis)                    |                   |
| Co-Moderator                                            | 05/2005           |
| 107th Annual Meeting                                    |                   |
| Scientific Session (Marrow and Muscle)                  |                   |
| Co-Moderator                                            | 05/2007           |
| 108th Annual Meeting                                    |                   |
| Scientific Session (Shoulder)                           |                   |

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| Co-Moderator                                              | 04/2008           |
| 109th Annual Meeting                                      |                   |
| Scientific Program Subcommittee, MSK Subspecialty Section |                   |
| Chair                                                     | 10/2008 - 09/2009 |
| 110th Annual Meeting                                      |                   |
| Scientific Session (Upper and Lower Extremity)            |                   |
| Co-Moderator                                              | 04/2010           |
| 111th Annual Meeting                                      |                   |
| Abstract Selection Reviewer                               | 10/2010           |
| Scientific Session (Lower Extremity)                      |                   |
| Co-Moderator                                              | 05/2011           |
| 113th Annual Meeting                                      |                   |
| Scientific Session Moderator                              | 04/2013           |
| Current Concepts in Clinical Imaging                      |                   |
| Co-Director                                               | 07/2005 - 02/2006 |
| Education Evaluation Subcommittee                         |                   |
| Member                                                    | 07/2006 - 01/2017 |
| RSNA Introduction to Research Program                     |                   |
| Elected Participant                                       | 05/1999           |
| Scientific Meeting Abstracts                              |                   |
| Musculoskeletal Section                                   |                   |
| Reviewer                                                  | 09/2006 - 01/2017 |
| Chair                                                     | 08/2011 - 07/2016 |
| Scientific Program Subcommittee                           |                   |
| Member                                                    | 09/2006 - 01/2017 |
| Web Strategy Committee                                    |                   |
| Member                                                    | 05/2005 - 05/2006 |
| American Society for Quality                              |                   |
| Member                                                    | 12/2017 – 12/2022 |
| Arizona Medical Association                               |                   |
| Member                                                    | 01/1991 - 12/2004 |
| Member                                                    | 01/2007 – 12/2017 |
| Committee on Legislative and Governmental Affairs         |                   |
| Member                                                    | 01/1995 - 01/1997 |
| Scientific Affairs Committee                              |                   |
| Member                                                    | 01/1991 - 01/1992 |
| Association of University Radiologists                    |                   |
| Member                                                    | 01/2003 - 01/2015 |
| Representative to ABR PQI Summit                          | 08/2007 - 08/2008 |
| AUR Ethics and Professionalism in Radiology Study Section |                   |
| Chair                                                     | 01/2011 - 03/2015 |

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| AUR-Philips Faculty Development Course                   |                   |
| Elected Participant                                      | 04/2006           |
| Awards Committee                                         |                   |
| Member                                                   | 07/2008 - 06/2012 |
| Board of Directors                                       |                   |
| Member                                                   | 07/2006 - 06/2012 |
| Education Committee                                      |                   |
| Member                                                   | 01/2004 - 06/2012 |
| Chair                                                    | 07/2006 - 06/2012 |
| Program Planning Committee                               |                   |
| Member                                                   | 07/2007 - 06/2012 |
| Scientific Program Committee                             |                   |
| Member                                                   | 09/2009 - 06/2015 |
| Carman Society – Mayo Clinic Radiology Alumni            |                   |
| Member                                                   | 09/2011 - Present |
| International Skeletal Society                           |                   |
| Member                                                   | 07/2008 - Present |
| 42nd Annual Meeting                                      |                   |
| Moderator                                                | 10/2015           |
| Film Quiz Panel                                          |                   |
| Participant                                              | 10/2015           |
| 43rd Annual Meeting                                      |                   |
| Moderator                                                | 09/2016           |
| Electronic Communication and Education Committee         |                   |
| Member                                                   | 01/2015 – 12/2022 |
| Committee on Grants                                      |                   |
| Member                                                   | 10/2020 - 12/2021 |
| Research and Education Committee                         |                   |
| Member                                                   | 01/2022 – 09/2024 |
| Web Redesign Committee, Ad Hoc                           |                   |
| Member                                                   | 10/2011 - 12/2014 |
| International Society for Magnetic Resonance in Medicine |                   |
| Member                                                   | 01/2005 - 12/2005 |
| Member                                                   | 01/2017 - 01/2019 |
| 25th Annual Meeting                                      |                   |
| Moderator                                                | 04/2017           |
| National Quality Forum                                   |                   |
| Committee Member                                         | 04/2010 - Present |
| Ambulatory Care Steering Committee                       |                   |
| Member                                                   | 04/2010 - 03/2011 |
| Musculoskeletal Measures Project                         |                   |

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|-----------------------------------------------------------------|-------------------|
| Member                                                          | 03/2014 - 12/2014 |
| Musculoskeletal Steering Committee                              |                   |
| Member                                                          | 03/2014 - 10/2017 |
| NQF Resource Use: Bone/Joint Technical Advisory Panel           |                   |
| Member                                                          | 04/2011 - 04/2012 |
| Primary Care and Chronic Illness Standing Committee             |                   |
| Member                                                          | 10/2017 – Present |
| Serious Reportable Events: Physician Offices TAP                |                   |
| Member                                                          | 07/2010 - 12/2011 |
| Pima County Medical Society                                     |                   |
| Media Committee                                                 |                   |
| Member                                                          | 01/1991 - 01/1992 |
| Radiological Society of North America                           |                   |
| Member                                                          | 01/1997 - 01/2014 |
| 91st Annual Meeting                                             |                   |
| Scientific Session (Musculoskeletal Tumors)                     |                   |
| Co-Moderator                                                    | 11/2005           |
| 93rd Annual Meeting                                             |                   |
| Scientific Session (Spine Tumors)                               |                   |
| Co-Moderator                                                    | 11/2007           |
| 94th Annual Meeting                                             |                   |
| Scientific Session (Spine: Discs and Vertebrae)                 |                   |
| Co-Moderator                                                    | 12/2008           |
| Educational Research Grant Study Section                        |                   |
| Member                                                          | 01/2005 - 01/2011 |
| Radiographics Exhibit Review Committee                          |                   |
| Musculoskeletal Section                                         |                   |
| Member                                                          | 10/2005 - 08/2019 |
| RSNA MSK Exhibit Preferred Topic Suggestion Committee           |                   |
| Member                                                          | 02/2014 - 11/2014 |
| RSNA/AUR/APDR/SCARD (RAAS) Education Research Development Grant |                   |
| AUR Representative                                              | 04/2011           |
| Society of Academic Bone Radiologists                           |                   |
| Member                                                          | 07/2008 - 07/2020 |
| Secretary                                                       | 07/2018 - 07/2019 |
| Treasurer                                                       | 07/2015 - 07/2018 |
| Electronic Media Committee                                      |                   |
| Member                                                          | 07/2011 - 07/2020 |
| Chair                                                           | 08/2016 - 07/2018 |
| Rules Committee                                                 |                   |
| Member                                                          | 07/2010 - 07/2013 |

## Society of Skeletal Radiology

|                                     |                   |
|-------------------------------------|-------------------|
| Member                              | 01/2004 - 01/2021 |
| 2006 Annual Meeting                 |                   |
| Scientific Session Moderator        | 03/2006           |
| 2007 Annual Meeting                 |                   |
| Scientific Session Moderator        | 03/2007           |
| 2008 Annual Meeting                 |                   |
| Scientific Session Moderator        | 03/2008           |
| 2009 Annual Meeting                 |                   |
| Scientific Session Moderator        | 03/2009           |
| 2010 Annual Meeting                 |                   |
| Scientific Session Moderator        | 03/2010           |
| 2013 Annual Meeting                 |                   |
| Scientific Session Moderator        | 03/2013           |
| 2014 Annual Meeting                 |                   |
| Scientific Session Moderator        | 03/2014           |
| Case of the Day Selection Committee |                   |
| Chair                               | 03/2014           |
| 2015 Annual Meeting                 |                   |
| Case of the Day Selection Committee |                   |
| Chair                               | 03/2015           |
| Electronic Communication Committee  |                   |
| Member                              | 01/2004 - 03/2010 |
| Chairperson                         | 03/2007 - 03/2010 |
| Electronic Learning Committee       |                   |
| Member                              | 09/2016 - 07/2020 |
| Program Committee                   |                   |
| Member                              | 03/2017 - 07/2020 |

## The Doctors Mayo Society

|        |                   |
|--------|-------------------|
| Member | 08/2008 - Present |
|--------|-------------------|

## University of Arizona College of Medicine

|                                                 |                   |
|-------------------------------------------------|-------------------|
| Commitment to Underserved People Refugee Clinic |                   |
| Coordinator                                     | 07/1991 - 06/1992 |
| Attending Coordinator                           |                   |
| Member                                          | 07/1991 - 06/1992 |

## The CAT SCAN, College of Medicine Newspaper

|                 |                   |
|-----------------|-------------------|
| Music and Humor |                   |
| Editor          | 07/1991 - 06/1993 |

**Journal Responsibilities**

**Journal Editorial Responsibilities**

|                                               |                   |
|-----------------------------------------------|-------------------|
| Academic Radiology                            |                   |
| Guest Editor                                  | 01/2007 - 07/2009 |
| Deputy Editor for Education                   | 07/2009 - 07/2012 |
| Associate Editor                              | 07/2012 - 07/2015 |
| Deputy Editor                                 | 07/2015 - 07/2020 |
| American Journal of Roentgenology             |                   |
| Assistant Editor                              | 02/2008 - 01/2011 |
| Integrative Imaging                           |                   |
| Editorial Board Member                        | 02/2006 - 02/2008 |
| Radiology Case Reports                        |                   |
| Editorial Board Member                        | 12/2005 - 12/2010 |
| Associate Editor                              | 01/2008 - 12/2010 |
| Musculoskeletal Section                       |                   |
| Section Editor                                | 11/2006 - 05/2010 |
| Seminars in Musculoskeletal Radiology         |                   |
| Guest Editor                                  | 03/2007           |
| StatPearls                                    | 06/2025           |
| Editor in Chief for Musculoskeletal Radiology |                   |

**Journal Other Responsibilities**

|                                   |                   |
|-----------------------------------|-------------------|
| Academic Radiology                |                   |
| Journal Reviewer                  | 01/2004 - Present |
| American Journal of Roentgenology |                   |
| Journal Reviewer                  | 06/2005 - 03/2020 |
| Cancer Imaging                    |                   |
| Journal Reviewer                  | 08/2019 – 12/2022 |
| Mayo Clinic Proceedings           |                   |
| Journal Reviewer                  | 10/2006 - 01/2014 |
| Radiographics                     |                   |
| Journal Reviewer                  | 11/2005 - 12/2018 |
| Radiology                         |                   |
| Journal Reviewer                  | 01/2008 - 06/2017 |
| Radiology Case Reports            |                   |
| Journal Reviewer                  | 12/2005 - 12/2010 |
| Skeletal Radiology                |                   |
| Journal Manuscript Reviewer       | 01/2013 - 01/2021 |

**Educational Activities****Curriculum and Course Development**



|                                                                                                                                                                                                                                   |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Mock Radiology Boards<br>Organize an annual full-day course for senior radiology residents rotating from Mayo Clinic Rochester/Jacksonville and regional residents from the University of Arizona and St. Joseph's Hospital       | 2002 - 2005       |
| ARRS Current Concepts in Clinical Imaging<br>National CME Meeting Co-course Director<br>Phoenix, Arizona                                                                                                                          | 02/2006           |
| Advanced Radiology Life Support - Created simulation center scenarios<br>Converted existing ARLS materials into programmed simulation scenarios for SimMan 3G. Course runs annually for physicians, nurses, and CT technologists. | 09/2010 - 07/2014 |
| Applied Quality Essentials - Revision to online format<br>Lead the team to convert the 8 hour didactic Silver Quality Essentials course into an online course with interactive electronic exercises<br>Quality Academy            | 09/2013 - 03/2014 |

### Teaching Intramural

|                                                                                                                                                                                                             |                |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|
| General Radiology<br>Informal daily teaching of medical students and junior radiology residents during radiology residency<br>University of Arizona Health Center<br>Tucson, Arizona                        | 1997 - 2001    |
| Introduction to Radiology<br>Introductory general radiology lectures to medical students<br>University of Arizona<br>Tucson, Arizona                                                                        | 2000 - 2001    |
| Musculoskeletal Radiology<br>Daily, one-on-one musculoskeletal fellow and resident teaching with formal lectures every fifth week<br>Department of Diagnostic Radiology, Mayo Clinic<br>Scottsdale, Arizona | 2002 – 12/2017 |
| Musculoskeletal Radiology<br>1 hour long conferences Radiology Residents to St. Joseph's<br>Department of Diagnostic Radiology, St. Joseph's Hospital<br>Phoenix, Arizona                                   | 2002 - 2005    |
| Musculoskeletal Radiology<br>Noon conference for Radiology staff<br>Scottsdale, Arizona                                                                                                                     | 2002 - 2006    |

|                                                                                                                                                                       |             |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|
| Advanced Radiology Life Support<br>Taught the Advanced Radiology Life Support course to health professionals<br>Tucson, Arizona                                       | 01/17/2002  |
| Basic Life Support<br>Taught the American Heart Association Basic Life Support course to health professionals<br>Scottsdale, Arizona                                  | 06/2002     |
| Advanced Radiology Life Support<br>Taught the Advanced Radiology Life Support course to health professionals<br>Tucson, Arizona                                       | 10/27/2002  |
| Radiology for Medical Students - Internet Teaching Site for Medical Students<br>Editorial Board.<br>Radiological Society of North America Research and Education Fund | 2003 - 2016 |
| Advanced Radiology Life Support<br>Taught the Advanced Radiology Life Support course to health professionals<br>Rochester, Minnesota                                  | 01/17/2004  |
| Basic Life Support<br>Taught the American Heart Association Basic Life Support course to health professionals<br>Scottsdale, Arizona                                  | 05/2004     |
| Advanced Radiology Life Support<br>Taught the Advanced Radiology Life Support course to health professionals<br>Scottsdale, Arizona                                   | 09/11/2004  |
| Advanced Radiology Life Support<br>Taught the Advanced Radiology Life Support course to health professionals<br>Albuquerque, New Mexico                               | 09/19/2004  |
| Basic Life Support<br>Taught the American Heart Association Basic Life Support course to health professionals<br>Scottsdale, Arizona                                  | 05/2006     |
| Mayo Clinic Quality Academy<br>Presentation with Douglas L. Wood, M.D. Reviewed Quality Academy's newest online teaching module.                                      | 06/18/2009  |

Mayo Clinic Education Grand Rounds  
Rochester, Minnesota

Basic Life Support 09/2010  
Taught the American Heart Association Basic Life Support course to health professionals  
Scottsdale, Arizona

Advanced Radiology Life Support 09/2010 - 06/2014  
Taught the Advanced Radiology Life Support course to health professionals  
Scottsdale, Arizona

Applied Quality Essentials 05/2011  
Quality Academy

Basic Life Support 09/2011  
Taught the American Heart Association Basic Life Support course to health professionals  
Scottsdale, Arizona

Applied Quality Essentials 11/2011  
Quality Academy

Silver Quality Essentials 08/2012  
Quality Academy

Perry Outreach Program 08/2012  
A full day course in the Simulation Center that encourages high school age girls to go into medicine.  
Arizona

Silver Quality Essentials 09/2012  
Quality Academy

Basic Life Support 09/2012  
Taught the American Heart Association Basic Life Support course to health professionals  
Scottsdale, Arizona

Silver Quality Essentials 11/2012  
Quality Academy

Silver Quality Essentials 05/2013  
Quality Academy

|                                                                                                                                         |                   |
|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Silver Quality Essentials<br>Quality Academy                                                                                            | 09/2013           |
| Basic Life Support<br>Taught the American Heart Association Basic Life Support course to<br>health professionals<br>Scottsdale, Arizona | 09/2013           |
| Silver Quality Essentials<br>Quality Academy                                                                                            | 12/2013           |
| Silver Quality Essentials<br>Quality Academy                                                                                            | 04/2014           |
| Commonly Missed Fractures - Lower Extremity<br>Department of Radiology                                                                  | 09/2014           |
| Basic Life Support<br>Taught the American Heart Association Basic Life Support course to<br>health professionals<br>Scottsdale, Arizona | 09/2014           |
| Silver Quality Essentials<br>Quality Academy                                                                                            | 11/2014           |
| Teaching with iTunes U<br>NP/PA Grand Rounds                                                                                            | 11/2014           |
| Quality Improvement in Healthcare: Quality Academy and You<br>NP/PA Grand Rounds                                                        | 11/2014           |
| Biomedical Informatics 504 (BMI 504)<br>Adjunct Faculty<br>Arizona State University                                                     | 12/2014 - 12/2021 |
| Silver Quality Essentials<br>Quality Academy                                                                                            | 05/2015           |

### Mentorship

|                                                                                                                                     |                   |
|-------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Alcala, Jennifer (Radiology Resident & Fellow)<br><b>Current Status:</b> Academic Radiologist, University of Arizona, Tucson,<br>AZ | 07/1999 - 07/2002 |
| DeMartini, Joseph (Radiology Fellow)<br><b>Current Status:</b> Academic Radiologist, University of Washington                       | 07/2002 - 06/2003 |

|                                                                                                                                                                                                                                                                                                                                                                                          |                   |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Huong, Le-Petross (Radiology Fellow)<br><b>Current Status:</b> Academic Radiologist, M.D. Anderson                                                                                                                                                                                                                                                                                       | 07/2002 - 06/2003 |
| Accord, Debra (Radiology Fellow)<br><b>Current Status:</b> Private Practice Radiologist                                                                                                                                                                                                                                                                                                  | 07/2003 - 06/2004 |
| Moyer, Adrian (Radiology Fellow)<br><b>Current Status:</b> MSK Staff Scottsdale Medical Imaging Limited                                                                                                                                                                                                                                                                                  | 07/2003 - 06/2004 |
| Meek, Douglas (Radiology Fellow)<br><b>Current Status:</b> Private Practice Radiologist                                                                                                                                                                                                                                                                                                  | 07/2004 - 06/2005 |
| Wellnitz, Clinton (Radiology Fellow)<br><b>Current Status:</b> Consultant Radiologist, Mayo Clinic Arizona                                                                                                                                                                                                                                                                               | 07/2004 - 06/2005 |
| Bracamonte, Jesse (Family Medicine Resident)<br><b>Current Status:</b><br><b>Outcome:</b> *Bracamonte JD, Roberts CC. Chronic recurrent multifocal osteomyelitis mimicking osteosarcoma. Radiology Case Reports 2006 Jun; 1(2):42-6.                                                                                                                                                     | 01/2005 - 01/2006 |
| Mahal, Ravinder (Radiology Fellow)<br><b>Current Status:</b> Private Practice Radiologist<br><b>Outcome:</b> 1. First Prize for Case Reports, Arizona Academic Excellence Day 2006 2. *Mahal RS, Pockaj BA, Roberts CC. A "spontaneously shrinking" breast mass: unusual presentation of invasive tubular carcinoma. Radiology Case Reports 2006 Jun; 1(2):68-72.                        | 07/2005 - 06/2006 |
| Valadez, Scott (Radiology Fellow)<br><b>Current Status:</b> Private Practice Radiologist                                                                                                                                                                                                                                                                                                 | 07/2005 - 06/2006 |
| Burkholz, Kimberly (Radiology Fellow)<br><b>Current Status:</b> Private Practice Radiologist at vRad<br><b>Outcome:</b> *Burkholz KJ, Roberts CC, Lidner TK. Posttraumatic Pseudolipoma (Fat Necrosis) Mimicking Atypical Lipoma or Liposarcoma on MRI. Radiology Case Reports 2007; 2(2):56-9.<br>*Burkholz KJ, Roberts CC, Hattrup SJ. Scapular spine fracture as a complication of re | 07/2006 - 06/2007 |
| Dorsey, Michelle (Radiology Fellow)<br><b>Current Status:</b> Private Practice Radiologist<br><b>Outcome:</b> 1. First Prize for Case Reports, Arizona Academic Excellence Day 2007; 2. *Dorsey ML, Roberts CC. Tophaceous gout mimicking an edematous anconeus epitrochlearis. Radiology Case Reports 2006 Dec; 1(4):140-4.                                                             | 07/2006 - 06/2007 |
| Khalsa, Satkirin (Family Medicine Resident)<br><b>Outcome:</b> Khalsa SK, Roberts CC, Underhill MS. Acute pulmonary                                                                                                                                                                                                                                                                      | 12/2006 - 01/2007 |

toxicity from thalidomide in a patient with multiple myeloma. Radiology Case Reports 2007; 2(2):41-3.

Evans, J. Mark (Radiology Fellow) 07/2007 - 06/2008

**Current Status:** Academic Radiologist, Oklahoma City, OK

**Outcome:** \*Evans JM, Roberts CC, Lidner TK. Tumoral calcinosis causing bilateral thigh pain. Radiology Case Reports 2008; 3(2):206.

Swartz, Paul (Radiology Fellow) 07/2007 - 06/2008

**Current Status:** Private Practice Radiologist

**Outcome:** \*Swartz PG, Roberts CC. Radiological reasoning: bone marrow changes on MRI. AJR Am J Roentgenol 2009 Sep; 193(3 Suppl):S1-4.

Kujak, Jennifer (Radiology Fellow) 07/2008 - 06/2009

**Current Status:** Private Practice Radiologist, Thousand Oaks, CA

Lorans, Roxanne (Radiology Fellow) 07/2008 - 06/2009

**Current Status:** Mayo Clinic in Arizona, Consultant Radiologist

Nowicki, Zofia (Radiology Fellow) 07/2008 - 06/2009

**Current Status:** Private Practice Radiologist, Phoenix, AZ

Hill, Destin (Family Medicine Resident) 01/2009 - 01/2010

**Outcome:** \*Hill DE, Roberts CC, Inwards CY, Sim FS. Childhood soft tissue sarcoma associated with Sotos syndrome. Radiology Case Reports 2010 Mar; 5(1):384.

Christian, Brett (Radiology Fellow) 07/2009 - 06/2010

**Current Status:** Private Practice Radiologist

Fitzgerald, Jeffrey (Radiology Fellow) 07/2010 - 06/2011

**Current Status:** Private Practice Radiologist, Phoenix, AZ

**Outcome:** \*Fitzgerald JJ, Roberts CC, Daffner RH, et al. American College of Radiology. ACR Appropriateness Criteria®: Follow-up of Malignant or Aggressive Musculoskeletal Tumors. Available at [http://www.acr.org/SecondaryMainMenuCategories/quality\\_safety/app\\_](http://www.acr.org/SecondaryMainMenuCategories/quality_safety/app_)

Patel, Tarang (Radiology Fellow) 07/2010 - 06/2011

**Current Status:** Private Practice Radiologist

Mullen, Bradley (Radiology Fellow) 01/2011 - 01/2012

**Current Status:** Private Practice Radiologist Phoenix, AZ

Roper, Glade (Radiology Fellow) 01/2011 - 01/2012

**Current Status:** Private Practice Radiologist, California

**Outcome:** 2nd Place, Oral Presentation for Clinical Research, Academic Excellence Day 2012: "A Novel CT Technique for Evaluating

## Rotation of Total Knee Arthroplasty Components"

Smith, Maxwell (Consultant) 09/2011 - 03/2012  
**Outcome:** New Staff "Buddy" Program

Bryce, Alan (Consultant) 01/2012 - 06/2012  
**Outcome:** New Staff "Buddy" Program

Bues, Martin (Consultant) 05/2012 - 11/2012  
**Outcome:** New Staff "Buddy" Program

Cross, Michael (Connor) (Radiology Fellow) 07/2012 - 06/2013  
**Current Status:** Private Practice Radiologist  
**Outcome:** 1. Cross MC, Kransdorf MJ, Lorans R, Chivers FS, Roberts CC, Schwartz AJ, Beauchamp CP. Utility of percutaneous joint aspiration and synovial biopsy in identifying infected hip arthroplasty. Society of Skeletal Radiology Annual Meeting. 2013. 2. Tarbox DL

Kohl, Chad (Radiology Fellow) 07/2012 - 06/2013  
**Current Status:** Private Practice Radiologist  
**Outcome:** Kohl CA, Chivers FS, Kransdorf MJ, Roberts CC, Lorans R. MR imaging accuracy in diagnosing malignant bone marrow lesions. Society of Skeletal Radiology Annual Meeting. 2013.

Tarbox, Daniel (Layne) (Radiology Fellow) 07/2012 - 06/2013  
**Current Status:** Private Practice Radiologist  
**Outcome:** \*Tarbox DL, Roberts CC, Cross MC, Kransdorf MJ. MR imaging characteristics of diffuse-type tenosynovial giant cell tumor. Society of Skeletal Radiology Annual Meeting. 2013.

Zell, Steven (Radiology Fellow) 07/2012 - 06/2013  
**Current Status:** Private Practice Radiologist  
**Outcome:** \*Zell SI, Roberts CC. Quality improvement project pitfalls and potential topics. Society of Skeletal Radiology Annual Meeting. 2013.

Schwedt, Todd (Consultant) 09/2012 - 02/2013  
**Outcome:** New Staff "Buddy" Program

Unwala, Rashimi (Consultant) 11/2012 - 04/2013  
**Outcome:** New Staff "Buddy" Program

Judson, Kurtis (Consultant) 02/2013 - 08/2013  
**Outcome:** New Staff "Buddy" Program

Colvin, Otis (Radiology Fellow) 07/2013 - 06/2014  
**Outcome:** Colvin OC, Kransdorf MJ, Roberts CC, Lorans R, Chivers FS, Beauchamp CP, Schwartz AJ. Leukocyte Esterase Analysis in the Diagnosis of Periprosthetic Joint Infection: Can We Make a Diagnosis

Using a Simple Urine Dip Stick? (abstract). Skeletal Radiology.

Escobar, Eduardo (Radiology Fellow)

07/2013 - 06/2014

**Current Status:** Army, Active Duty

**Outcome:** \*Escobar E, Roberts CC, Kransdorf MJ. Atypical decubital fibroplasia/decubital ischemic fasciitis: a rare sarcoma mimic. Skeletal Radiology. 2014.

Malcom, Christopher (Radiology Fellow)

07/2013 - 06/2014

Boe, Nicholas (Consultant)

08/2013 - 01/2014

**Outcome:** New Staff "Buddy" Program

Stevenson, Michael (Radiology Fellow)

01/2014 - 01/2015

Barua, Rudra (Radiology Fellow)

07/2014 - 06/2015

Craig, Keith (Radiology Fellow)

07/2014 - 06/2015

Montini, Kenneth (Radiology Fellow)

07/2014 - 06/2015

Robinson, Kristin (Radiology Resident)

07/2014 - 12/2017

**Current Status:** Private Practice Radiologist at vRad

Tomblinson, Courtney (Radiology Resident)

07/2014 - 12/2017

Bellamkonda, Venk (MD)

01/2015

**Description:** Quality Academy Project Review Mentee

Nestler, David (MD)

01/2015

**Description:** Quality Academy Project Review Mentee

O'Horo, Jack (MD)

01/2015

**Description:** Quality Academy Project Review Mentee

Delbridge, Chris (Radiology Fellow)

07/2015 - 09/2015

Gupta, Mamta (Radiology Fellow)

07/2015 - 06/2016

**Current Status:** Private Practice Radiologist at vRad

Roper, Gary (Radiology Fellow)

07/2015 - 06/2016

Sugi, Mark (Radiology Resident)

07/2015 - 12/2017

Tung, Kelly (Radiology Resident)

07/2015 - 12/2017

Bowden, Thomas (Radiology Fellow)

07/2016 - 06/2017



|                                           |                   |
|-------------------------------------------|-------------------|
| Golshani, Ashkahn (Radiology Fellow)      | 07/2016 - 06/2017 |
| Taylor, Kevin (Radiology Fellow)          | 07/2016 - 06/2017 |
| Fleck, Andrew (Radiology Resident)        | 07/2016 - 12/2017 |
| Hoang, Peter (Radiology Resident)         | 07/2016 - 12/2017 |
| Jamison, D. Kenneth (Radiology Resident)  | 07/2016 - 12/2017 |
| Wallace, Alex (Radiology Resident)        | 07/2016 - 12/2017 |
| Chen, Tom (Fellow)                        | 07/2017 - 12/2017 |
| Franke, Ryan (Fellow)                     | 07/2017 - 12/2017 |
| Renfrew, John (Jack) (Radiology Resident) | 07/2017 - 12/2017 |
| Zaw, Taryar (Fellow)                      | 07/2017 - 12/2017 |
| Hoffman, Laura (Radiology Resident)       | 09/2017 - 12/2017 |
| Adler, Cameron (Radiology Resident)       | 10/2017 - 12/2017 |
| Hopp, Alix (Radiology Resident)           | 11/2017 - 12/2017 |

### **Academic Career Development**

|                                                                                                                                                                                                                                                             |         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Professional Communications Workshop<br>Mayo Clinic<br>Scottsdale, Arizona                                                                                                                                                                                  | 04/2004 |
| Test-Writing Workshop, Invited Participant<br>Half day training to write Self-Assessment Modules (SAMs) that are required for Radiologists undergoing Board recertification<br>American Roentgen Ray Society 105th Annual Meeting<br>New Orleans, Louisiana | 05/2005 |
| How People Learn: A Cognitive Perspective with Implications for Teaching<br>Mayo Clinic                                                                                                                                                                     | 11/2005 |
| Fundamentals of Simulation: Turn Key Solutions<br>Mayo Clinic                                                                                                                                                                                               | 10/2010 |
| Quality Fellows Program - Silver Certification<br>Mayo Clinic                                                                                                                                                                                               | 11/2010 |

Teaching Principles and Skills for Simulation Based Education  
Mayo Clinic

11/2010

Radiology Leadership Institute  
American College of Radiology

09/2013 - 2018

### **Mayo Clinic Institutional/Departmental Administrative Responsibilities, Committee Memberships, and Other Activities**

#### **Mayo Clinic**

Commitment to Safety Facilitation Team

Facilitator

12/2011 -  
12/2017

Department of Education Administration

Mayo Clinic College of Medicine

Mayo Clinic School of Health-Related Sciences

Associate Dean

01/2006 -  
11/2014

Education Committee

Member

01/2006 -  
11/2014

Vice Chair

08/2008 -  
11/2014

Quality Academy Advisory Group

Member

05/2009 -  
12/2017

Quality Academy Curriculum Committee

Member

07/2012 -  
12/2017

Quality Fellows Program Committee

Member

03/2013 -  
12/2017

#### **Mayo Clinic Committees**

Associate Appointment Committee

Member

02/2010 -  
12/2013

Compliance and Enterprise Risk Management Committee

Member

01/2009 -  
12/2013

Mayo Clinic Clinical Practice Committee

Practice Convergence Council

Mayo Clinic Cerner EMR Steering Group

TPC Project

|                                                                              |                      |
|------------------------------------------------------------------------------|----------------------|
| TPC Change Management Advisory Council                                       |                      |
| Member                                                                       | 06/2009 -<br>09/2010 |
| Quality of Care Subcommittee                                                 |                      |
| Mayo Clinic Quality Review Board                                             |                      |
| Vice Chair                                                                   | 11/2009 -<br>12/2013 |
| Member                                                                       | 11/2009 -<br>09/2014 |
| Chair                                                                        | 12/2013 -<br>09/2014 |
| Mayo Clinic Education Committee                                              |                      |
| Sit With Member                                                              | 09/2009 -<br>12/2009 |
| Academic Appointments and Promotions Committee - Mayo Clinic                 |                      |
| Allied Health Professionals Academic Appointment and Promotions Subcommittee |                      |
| Member                                                                       | 01/2012 -<br>11/2014 |
| Administrative Committee of the Mayo Clinic Education Committee              |                      |
| Member                                                                       | 06/2009 -<br>08/2009 |
| Trip and Travel Committee - Mayo Clinic                                      |                      |
| Member                                                                       | 02/2010 -<br>12/2013 |
| Mayo Clinic Enterprise                                                       |                      |
| Magnetic Resonance Imaging Safety Committee                                  |                      |
| Member                                                                       | 01/2003 -<br>01/2004 |
| Mayo Clinic Leadership Council for Alumni Philanthropy                       |                      |
| Member                                                                       | 09/2011 -<br>09/2016 |
| Mayo Clinic Quality Academy                                                  |                      |
| Education Committee                                                          |                      |
| Member                                                                       | 10/2012 -<br>12/2017 |
| Mayo Policy Management Group                                                 |                      |
| Member                                                                       | 06/2013 -<br>12/2014 |

**Mayo Clinic in Rochester**

## Career and Leadership Development CALD - Module III

|                                                              |                      |
|--------------------------------------------------------------|----------------------|
| Member                                                       | 01/2008              |
| Department of Education Administration                       |                      |
| Mayo Clinic College of Medicine                              |                      |
| Mayo Medical School                                          |                      |
| Student Assessment Committee                                 |                      |
| Member                                                       | 06/2011 -<br>12/2014 |
| Mayo Clinic Rochester Committees                             |                      |
| Clinical Practice Committee - Rochester                      |                      |
| Clinical Practice Quality Oversight Subcommittee - Rochester |                      |
| Mortality Review Subcommittee                                |                      |
| Member                                                       | 01/2009 -<br>03/2013 |
| <b>Mayo Clinic in Arizona</b>                                |                      |
| Department of Administration                                 |                      |
| Mentorship Program                                           |                      |
| Member                                                       | 09/2005 -<br>12/2005 |
| Department of Laboratory Medicine/Pathology                  |                      |
| Search Committee                                             |                      |
| Member                                                       | 09/2006 -<br>02/2007 |
| Member                                                       | 11/2012 -<br>12/2012 |
| Department of Neurology                                      |                      |
| Department Chair Search Committee                            |                      |
| Member                                                       | 02/2017 -<br>04/2017 |
| Department of Orthopedics                                    |                      |
| Chairman Search Committee                                    |                      |
| Member                                                       | 07/2008 -<br>02/2009 |
| Department of Physical Medicine & Rehabilitation             |                      |
| Physical Medicine and Rehabilitation Staff Search Committee  |                      |
| Member                                                       | 01/2017 -<br>06/2017 |
| Department of Psychiatry & Psychology                        |                      |
| Clinical Psychologist Search Committee                       |                      |
| Member                                                       | 11/2016 -<br>02/2017 |

|                                                     |                      |
|-----------------------------------------------------|----------------------|
| Department of Radiology                             |                      |
| Education Coordinator                               | 01/2003 -<br>03/2007 |
| Chairman Search Committee                           |                      |
| Member                                              | 09/2006 -<br>11/2006 |
| Chest and Interventional Radiology Search Committee |                      |
| Member                                              | 01/2003 -<br>01/2004 |
| Division of Musculoskeletal Radiology               |                      |
| Search Committee                                    |                      |
| Member                                              | 11/2015 -<br>06/2016 |
| Education Committee                                 |                      |
| Vice Chair                                          | 04/2005 -<br>03/2007 |
| Musculoskeletal Radiology Fellowship                |                      |
| Associate Program Director                          | 08/2010 -<br>08/2012 |
| Neuroradiology Search Committee                     |                      |
| Member                                              | 11/2005 -<br>07/2006 |
| Quality Committee                                   |                      |
| Chair                                               | 03/2007 -<br>01/2010 |
| Recruitment Committee                               |                      |
| Molecular Imager Search Committee                   |                      |
| Member                                              | 05/2007 -<br>12/2007 |
| Division of Hand and Plastic Surgery                |                      |
| Hand Surgeon Search Committee                       |                      |
| Member                                              | 12/2014 -<br>05/2015 |
| Mayo Clinic Arizona Committees                      |                      |
| Development Committee                               |                      |
| Member                                              | 01/2003 -<br>12/2005 |
| Executive Operations Team - Arizona                 |                      |
| Administrative Committee of the Board               |                      |
| Member                                              | 06/2008 -<br>09/2009 |

|                                                            |                      |
|------------------------------------------------------------|----------------------|
| Vice Chair                                                 | 10/2008 -<br>09/2009 |
| Clinical Practice Committee - Arizona                      |                      |
| Member                                                     | 01/2013 -<br>01/2016 |
| Clinical Practice Quality Oversight Committee              |                      |
| Member                                                     | 01/2016 -<br>12/2017 |
| Patient Safety Subcommittee                                |                      |
| Member                                                     | 01/2003 -<br>01/2016 |
| Vice Chair                                                 | 01/2007 -<br>12/2007 |
| Chair                                                      | 01/2008 -<br>01/2016 |
| Executive Patient Safety Rounds                            |                      |
| Member                                                     | 01/2007 -<br>12/2007 |
| Failure Mode Effect Analysis                               |                      |
| Co-Process Sponsor                                         | 02/2007 -<br>12/2007 |
| Failure Mode Effect Analysis Surgical Infection Prevention |                      |
| Member                                                     | 01/2003              |
| MRI Intensive Review (Root Cause Analysis)                 |                      |
| Member                                                     | 12/2002 -<br>05/2003 |
| Education Committee                                        |                      |
| Member                                                     | 01/2006 -<br>11/2014 |
| Internal Medicine Residency Internal Review Committee      |                      |
| Member                                                     | 09/2009 -<br>12/2009 |
| MCA School of Health Sciences                              |                      |
| Vice Chair                                                 | 01/2005 -<br>12/2005 |
| Chair                                                      | 01/2006 -<br>11/2014 |
| Program Prioritization Subcommittee                        |                      |
| Chair                                                      | 03/2005 -<br>05/2005 |
| Member                                                     | 03/2005 -<br>11/2014 |

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|----------------------------------------------------------------------|----------------------|
| Chair                                                                | 03/2007 -<br>05/2007 |
| Chair                                                                | 03/2008 -<br>05/2008 |
| Medical and Laboratories Specialties Graduate Education Subcommittee |                      |
| Member                                                               | 01/2003 -<br>12/2005 |
| Musculoskeletal Radiology Fellowship                                 |                      |
| Associate Program Director                                           | 08/2010 -<br>03/2013 |
| Simulation Operations Subcommittee                                   |                      |
| Member                                                               | 01/2010 -<br>12/2013 |
| Surgery and Surgical Specialties Graduate Education Subcommittee     |                      |
| Member                                                               | 01/2001 -<br>12/2002 |
| Transitional Year Coordinating Subcommittee                          |                      |
| Member                                                               | 01/2003 -<br>03/2007 |
| Personnel Committee                                                  |                      |
| Member                                                               | 01/2016 -<br>06/2017 |
| Office of Travel Services                                            |                      |
| Member                                                               | 01/2010 -<br>12/2014 |
| Quality & Process Improvement Committee - Arizona                    |                      |
| Member                                                               | 07/2008 -<br>12/2015 |
| Vice Chair                                                           | 01/2011 -<br>12/2011 |
| Mortality Review Subcommittee - Arizona                              |                      |
| Member                                                               | 11/2008 -<br>03/2013 |
| Chair                                                                | 11/2008 -<br>03/2013 |
| Ex-Officio                                                           | 03/2013 -<br>12/2017 |

**Current Institutional/Departmental Administrative Responsibilities, Committee Memberships, and Other Activities**

University of Arizona College of Medicine

Interviewer/Evaluator

10/2016 -  
Present**Presentations Extramural****National or International****Invited**

MRI of the Hip 05/2004  
104th Annual Meeting of the American Roentgen Ray Society  
Miami, Florida

Common Problems of the Foot and Ankle 05/2005  
105th Annual Meeting of the American Roentgen Ray Society  
New Orleans, Louisiana

MRI of the Knee 10/2005  
Mayo Alumni Association Annual Meeting  
Jacksonville, Florida

Imaging of the Pelvis 02/2006  
Current Concepts in Clinical Imaging  
Phoenix, Arizona

Imaging of the Cervical Spine 04/2006  
Emergency Medicine 2006 - Moving Forward  
Scottsdale, Arizona

MRI of Foot and Ankle Masses 05/2006  
106th Annual Meeting of the American Roentgen Ray Society  
Vancouver, British Columbia, Canada

MDCT Applications in the Foot and Ankle 10/2006  
Jefferson Musculoskeletal Imaging Symposium  
Philadelphia, Pennsylvania

MRI Evaluation of Bone Marrow Signal Within the Pelvis 10/2006  
Jefferson Musculoskeletal Imaging Symposium  
Philadelphia, Pennsylvania

Panel Discussion: Question and Answer Session with the 10/2006  
Radiologist & Orthopedist  
Jefferson Musculoskeletal Imaging Symposium  
Philadelphia, Pennsylvania



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|---------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Multi-detector CT Imaging of Sports Injuries in the Foot<br>Radiological Society of North America 92nd Annual Meeting<br>Chicago, Illinois                    | 11/2006 |
| Benign Bone Tumors<br>University of Washington Radiology Review Course (Not Just for Residents!)<br>Seattle, Washington                                       | 04/2007 |
| Malignant Bone Tumors<br>University of Washington Radiology Review Course (Not Just for Residents!)<br>Seattle, Washington                                    | 04/2007 |
| Post-Surgical Imaging<br>University of Washington Radiology Review Course (Not Just for Residents!)<br>Seattle, Washington                                    | 04/2007 |
| Evaluation of Bone Marrow in the Pelvis - Keynote Lecture<br>107th Annual Meeting of the American Roentgen Ray Society<br>Orlando, Florida                    | 05/2007 |
| MRI of Foot and Ankle Masses - Instructional Course<br>107th Annual Meeting of the American Roentgen Ray Society<br>Orlando, Florida                          | 05/2007 |
| Diagnostic and Therapeutic Foot Injections - Refresher Course<br>Radiological Society of North America 93rd Annual Meeting<br>Chicago, Illinois               | 11/2007 |
| MDCT of Foot Sports Injuries - Refresher Course<br>Radiological Society of North America 93rd Annual Meeting<br>Chicago, Illinois                             | 11/2007 |
| Compartmental Anatomy for Bone Biopsy (Instructional Course)<br>108th Annual Meeting of the American Roentgen Ray Society<br>Washington, District of Columbia | 04/2008 |
| Imaging of Musculoskeletal Tumors<br>University of Washington Radiology Review Course (Not Just for Residents!)<br>Seattle, Washington                        | 04/2008 |

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| Imaging of Shoulder Joint Prostheses<br>108th Annual Meeting of the American Roentgen Ray Society<br>Washington, District of Columbia                         | 04/2008 |
| Post-surgical Musculoskeletal Imaging<br>University of Washington Radiology Review Course (Not Just for Residents!)<br>Seattle, Washington                    | 04/2008 |
| Implementing Critical Tests and Results<br>Quality, Efficiency and Pay-for-Performance: The Why, What and How<br>Phoenix, Arizona                             | 10/2008 |
| Implementing Peer Review<br>Quality, Efficiency and Pay-for-Performance: The Why, What and How<br>Phoenix, Arizona                                            | 10/2008 |
| CT Efficiency Improvement<br>Radiological Society of North America 94th Annual Meeting<br>Chicago, Illinois                                                   | 12/2008 |
| Compartmental Anatomy for Bone Biopsy (Instructional Course)<br>109th Annual Meeting of the American Roentgen Ray Society<br>Boston, Massachusetts            | 04/2009 |
| Cooking for AJR II: A Recipe for SAMS (Instructional Course)<br>109th Annual Meeting of the American Roentgen Ray Society<br>Boston, Massachusetts            | 04/2009 |
| Musculoskeletal Radiology Image Bowl Competition<br>Radiological Society of North America 95th Annual Meeting<br>Chicago, Illinois                            | 12/2009 |
| Critical Results & Critical Tests<br>American College of Radiology: Maximizing Value in Radiology through Quality and Safety Improvements<br>Phoenix, Arizona | 10/2010 |
| Procedural Pause<br>American College of Radiology: Maximizing Value in Radiology through Quality and Safety Improvements                                      | 10/2010 |

Phoenix, Arizona

Promoting a Culture of Safety 10/2010

American College of Radiology: Maximizing Value in Radiology  
through Quality and Safety Improvements

Phoenix, Arizona

Safety Session 10/2010

American College of Radiology: Maximizing Value in Radiology  
through Quality and Safety Improvements

Phoenix, Arizona

Imaging of the Cervical Spine 03/2011

Advances in Diagnostic Radiology

Scottsdale, Arizona

MR Imaging of Bone Marrow 03/2011

Advances in Diagnostic Radiology

Scottsdale, Arizona

Differential Diagnosis of Soft Tissue Masses on MRI 06/2012

Royal National Orthopaedic Hospital

London, United Kingdom

Commonly Missed Entities and Interesting Cases in MSK Imaging 03/2013

Clinical Reviews 2013: 24th Annual Family Medicine and Internal  
Medicine Update

Scottsdale, Arizona

Commonly Missed Diagnoses in MSK Imaging 10/2013

16th Annual Mayo Clinic Internal Medicine Update

Sedona, Arizona

Control and Change Management 10/2013

16th Annual Mayo Clinic Internal Medicine Update

Sedona, Arizona

Lean 10/2013

16th Annual Mayo Clinic Internal Medicine Update

Sedona, Arizona

Quality in Healthcare 10/2013

16th Annual Mayo Clinic Internal Medicine Update

Sedona, Arizona

Six Sigma 10/2013  
16th Annual Mayo Clinic Internal Medicine Update  
Sedona, Arizona

Teams, Tools and Methods 10/2013  
16th Annual Mayo Clinic Internal Medicine Update  
Sedona, Arizona

### **Oral**

Occurrence of fibroadenomas in postmenopausal women referred for breast biopsy 04/1992  
40th Annual Meeting of the Association of University Radiologists  
Chicago, Illinois

Mammographic surveillance of breast cancer patients: lack of benefit in imaging the post-mastectomy site 04/1993  
93rd Annual Meeting of the American Roentgen Ray Society  
San Francisco, California

Assessment of truncal edema following breast cancer treatment using modified Harpenden skinfold calipers 03/1994  
Annual Meeting of the British Microcirculation Society  
London, United Kingdom

Fatal cerebral coccidioides abscesses in an immunocompetent patient 10/1999  
31st Annual Meeting of the Western Neuroradiological Society  
Kohala Coast, Hawaii

Oblique reconstruction in cervical spine CT: Improved assessment of neural foraminal stenosis 10/1999  
31st Annual Meeting of the Western Neuroradiological Society  
Kohala Coast, Hawaii

Oblique reconstruction in cervical spine CT: Improved assessment of neural foraminal stenosis 04/2000  
38th Annual Meeting of the American Society of Neuroradiology  
Atlanta, Georgia

External to internal carotid artery anastomotic connections: Potential for danger in neurologic interventional procedures 11/2000

Computer exhibit can be viewed online at

[http://bubbasoft.org/carotid\\_collaterals](http://bubbasoft.org/carotid_collaterals).

86th Annual Meeting of the Radiological Society of North America  
Chicago, Illinois

Midnight manifestations of head trauma

05/2001

Computer exhibit can be viewed online at

<http://bubbasoft.org/traumaCum laude award>

39th Annual Meeting of the American Society of Neuroradiology  
Boston, Massachusetts

Inadvertent injection of the cervical spinal cord during attempted  
facet block

10/2001

32nd Annual Meeting of the Western Neuroradiology Society  
Santa Barbara, California

Noncircumscribed superficial lipomas: Make the call

03/2002

25th Annual Meeting of the Society of the Skeletal Radiology  
Jacksonville, Florida

Practical lessons in breast MRI

04/2002

Computer exhibit can be viewed online at

[http://bubbasoft.org/Breast\\_MRI](http://bubbasoft.org/Breast_MRI)

102nd Annual Meeting of the American Roentgen Ray Society  
Atlanta, Georgia

Musculoskeletal manifestations of coccidioidomycosis

03/2003

26th Annual Meeting of the Society of Skeletal Radiology  
San Diego, California

Interventional procedures in musculoskeletal radiology: Interactive  
review and assessment

05/2003

103rd Annual Meeting of the American Roentgen Ray Society  
San Diego, California

Unusual appearances of benign and malignant disease on breast  
MRI

05/2003

Computer exhibit can be viewed online at

[http://www.bubbasoft.org/Unusual\\_Breast\\_MR](http://www.bubbasoft.org/Unusual_Breast_MR)Silver Medal Award

103rd Annual Meeting of the American Roentgen Ray Society  
San Diego, California

MRCP: Imaging pitfalls and improvement with morphine  
administration

07/2003

11th Annual Meeting of the International Society of Magnetic Resonance in Medicine  
Toronto, Ontario, Canada

Assessment of bone biopsy needles for sample size, specimen quality and ease of use 03/2004  
27th Annual Meeting of the Society of Skeletal Radiology  
Tucson, Arizona

Delta reverse shoulder arthroplasty: Reinventing the wheel 03/2005  
28th Annual Meeting of the Society of Skeletal Radiology  
Orlando, Florida

Femoral-acetabular impingement: 3-D analysis of hip morphology and association with pathology. 05/2005  
13th Annual Meeting of the International Society of Magnetic Resonance in Medicine  
Miami, Florida

Radiographic and CT evaluation of knee replacement hardware: Review and self-assessment 11/2005  
91st Annual Meeting of the Radiological Society of North America

Evaluation of pelvis bone marrow with MRI 02/2006  
American Roentgen Ray Society: Current Concepts in Clinical Imaging  
Phoenix, Arizona

Demystifying MRI of the wrist. Whitlock MS, Chew FS, Richardson ML, Roberts CC. Bronze Medal, Exhibit. 05/2007  
107th Annual Meeting of the American Roentgen Ray Society  
Orlando, Florida

MRI assessment of bone marrow. Roberts CC, Chew FS. Silver Medal, Exhibit. 05/2007  
107th Annual Meeting of the American Roentgen Ray Society  
Orlando, Florida

Radiology of small joint replacement hardware: Review and self-assessment 05/2007  
107th Annual Meeting of the American Roentgen Ray Society  
Orlando, Florida

Creating the future: the Mayo Clinic model of healthcare delivery & allied health education 10/2007

Bender C, Kunkowski K, Agerter D, Silber M, Perdakis G, Roberts C, Krom B, Robinson N, Sibley-Albold C, Cortese D.  
Association of Schools of Allied Health Professions Annual Meeting  
San Diego, California

PA/NP clinical fellowships: a learning model of post-graduate education for mid-level providers 10/2007  
Sibley Albold CA, Roberts CC. Poster.  
Association of Schools of Allied Health Professions Annual Meeting  
San Diego, California

Axial and long bone sarcoidosis: Additional imaging features. 11/2007  
Warren HG, Bancroft LW, Kransdorf MJ, Peterson JJ, Roberts CC, Berquist TH. Exhibit.  
93rd Annual Meeting of the Radiological Society of North America  
Chicago, Illinois

Evaluation of metal artifact reduction software applied to CT of patients with implanted metal orthopedic devices. Liu PT, Pavlicek W, Roberts CC, Peter MB, Spangehl MJ, Paden R. Exhibit. Exhibit. 11/2007  
93rd Annual Meeting of the Radiological Society of North America  
Chicago, Illinois

Radiology of small joint replacement hardware. Goradia D, Richardson ML, Roberts CC, Chew FS. Exhibit. 11/2007  
93rd Annual Meeting of the Radiological Society of North America

Quality measures in musculoskeletal radiology 03/2008  
Society of Skeletal Radiology  
Palm Springs, California

The vascular groove sign: a new finding associated with osteoid osteomas. 04/2009  
109th Annual Meeting of the American Roentgen Ray Society  
Boston, Massachusetts

Malignant disease associated with Sotos syndrome 09/2009  
Annual meeting of the International Skeletal Society  
Washington, District of Columbia

Teaching introductory level quality improvement 11/2009  
95th Annual meeting of the Radiological Society of North America

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|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Total knee arthroplasty component rotation: Importance and easy technique for measurement<br>110th Annual Meeting of the American Roentgen Ray Society<br>San Diego, California        | 04/2010 |
| Aseptic lymphocytic vasculitis-associated lesions (ALVAL): current concepts<br>Society of Academic Bone Radiologists Annual Meeting<br>Santa Fe, New Mexico                            | 07/2010 |
| Isolated osseous involvement of Rosai-Dorfman disease<br>Society of Academic Bone Radiologists Annual Meeting<br>Santa Fe, New Mexico                                                  | 07/2010 |
| National directions in quality improvement and patient safety<br>Society of Academic Bone Radiologists Annual Meeting<br>Santa Fe, New Mexico                                          | 07/2010 |
| Adverse reaction to metal debris: What to expect from the metal-on-metal total hip prosthesis recall<br>111th Annual Meeting of the American Roentgen Ray Society<br>Chicago, Illinois | 05/2011 |
| Avoiding preventable harm in the radiology department<br>Society of Academic Bone Radiologists<br>Chicago, Illinois                                                                    | 07/2011 |
| Musculoskeletal radiology quality metrics<br>Society of Academic Bone Radiologists<br>Chicago, Illinois                                                                                | 07/2011 |
| Recent changes in the American Joint Committee on Cancer (AJCC) sarcoma staging system<br>Society of Academic Bone Radiologists<br>Chicago, Illinois                                   | 07/2011 |
| Staging sarcomas: How do I do it?<br>International Skeletal Society<br>San Diego, California                                                                                           | 09/2011 |
| Bone marrow signal on MRI - how to tell benign from neoplastic changes.<br>Advances in Diagnostic Radiology<br>Orlando, Florida                                                        | 03/2012 |



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|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|
| Measuring component rotation of total knee prostheses - easy technique and why it's important.<br>Advances in Diagnostic Radiology<br>Orlando, Florida                  | 03/2012 |
| Intra-operative imaging and navigation<br>Society of Academic Bone Radiologists<br>Jackson Hole, Wyoming                                                                | 07/2012 |
| Quality improvement project development and implementation:<br>Practical tips and lessons learned<br>Society of Academic Bone Radiologists<br>Jackson Hole, Wyoming     | 07/2012 |
| Soft tissue ganglion cysts remote from joint or tendon sheath<br>Society of Academic Bone Radiologists<br>Jackson Hole, Wyoming                                         | 07/2012 |
| MR imaging characteristics of diffuse-type tenosynovial giant cell tumor (*Tarbox DL, Roberts CC)<br>Society of Skeletal Radiology Annual Meeting<br>San Antonio, Texas | 03/2013 |
| Quality improvement project pitfalls and potential topics (*Zell SI, Roberts CC)<br>Society of Skeletal Radiology Annual Meeting<br>San Antonio, Texas                  | 03/2013 |
| 8 Common Mistakes that Make Quality Improvement Projects Fail<br>Society of Academic Bone Radiologists<br>Bar Harbor, Maine                                             | 07/2013 |
| What the Patient Protection and Affordable Care Act (PPACA) Means for You<br>Society of Academic Bone Radiologists<br>Bar Harbor, Maine                                 | 07/2013 |
| Why your out-of-pocket maximum is not actually your out-of-pocket maximum<br>Society of Academic Bone Radiologists<br>Bar Harbor, Maine                                 | 07/2013 |
| Radiology Pearls: Finding Subtle Fractures                                                                                                                              | 11/2013 |

Austere Environment Medicine  
Phoenix, Arizona

Incorporation of Quality Improvement Education as an Integral Part  
of Fellows Training 02/2015  
1.5 hour workshop co-presented with Kianoush Kashani, MD and  
Kannan Ramar, MD  
ACGME Annual Meeting  
San Diego, California

Current Trends in Healthcare Contracting 07/2015  
Society of Academic Bone Radiologists  
Nashville, Tennessee

Designing an Effective Faculty Development Program 07/2015  
Society of Academic Bone Radiologists  
Nashville, Tennessee

Orthopedic 3D Printing from Imaging Studies 07/2015  
Society of Academic Bone Radiologists  
Nashville, Tennessee

### **Poster**

Management implications of hip fractures 03/2000  
11th Annual Meeting of the American Society of Emergency  
Radiology  
Orlando, Florida

Subtraction postprocessing in musculoskeletal MRI 11/2002  
88th Annual Meeting of the Radiological Society of North America  
Chicago, Illinois

The 'absent middle facet' sign as an indicator of subtalar joint  
coalition 11/2002  
88th Annual Meeting of the Radiological Society of North America  
Chicago, Illinois

Improving inclusion of comparison studies in radiology  
interpretations 11/2016  
American Medical Informatics Association (AMIA) Annual Meeting  
Chicago, Illinois

Assessing soft tissue masses with MRI: A primer 03/2017

## 40th Annual Meeting of the Society of Skeletal Radiology

**Regional****Invited**

Arthritis Overview 07/2002  
St. Joseph's Hospital  
Phoenix, Arizona

Mammography Basics and Musculoskeletal Melange 02/2003  
St. Joseph's Hospital  
Phoenix, Arizona

Musculoskeletal Board Review and Mammography Board Review 05/2003  
St. Joseph's Hospital  
Phoenix, Arizona

Spinal Osteoid Osteomas: Radiology Perspective 01/2004  
3rd Annual Mayo Spine Center Multi-Disciplinary Update  
Conference  
Phoenix, Arizona

Musculoskeletal Board Review and Mammography Board Review 03/2004  
St. Joseph's Hospital  
Phoenix, Arizona

Musculoskeletal Board Review, Part II and Mammography Board  
Review, Part II 05/2004  
St. Joseph's Hospital  
Phoenix, Arizona

Legal, Employment & Insurance Challenges 01/2014  
2014 Living with & Overcoming My Cancer: A Mayo Clinic  
Symposium for Patients and their Loved Ones  
Phoenix, Arizona

**Oral**

Inadvertent injection of the cervical spinal cord during attempted  
facet block 05/2002  
Academic Excellence Day  
Phoenix, Arizona

Noncircumscribed superficial lipomas: Make the call  
Academic Excellence Day  
Phoenix, Arizona  
05/2002

Radiology Outside Film Quality Improvement Project  
Mayo Clinic Quality Symposium  
Scottsdale, Arizona  
04/2013

Applied Quality Essentials on iTunes U  
2nd Annual Education and Technology Forum  
Scottsdale, Arizona  
01/2014

### **Poster**

Carcinoma of the stomach with hepatocyte differentiation (hepatoid adenocarcinoma)  
Academic Excellence Day  
Phoenix, Arizona  
05/1997

Transitional cell carcinoma obstructing a calyceal diverticulum.  
Unusual presentation as a peripheral cystic mass  
Academic Excellence Day  
Phoenix, Arizona  
05/1997

Subtraction postprocessing in musculoskeletal MRI  
Academic Excellence Day  
Phoenix, Arizona  
05/2003

A 'spontaneously shrinking' breast mass: unusual presentation of invasive tubular carcinoma. Poster - First Prize, Fellows category. Mentor of Fellow first author.  
Academic Excellence Day  
Phoenix, Arizona  
05/2006

Tophaceous gout mimicking an edematous anconeus epitrochlearis. Poster - First Prize, Fellows category. Mentor of Fellow first author.  
Academic Excellence Day  
Phoenix, Arizona  
05/2007

### **Visiting Professorship**

#### **Visiting Professorships**

Visiting Professor  
Johns Hopkins University School of Medicine  
Baltimore, Maryland  
10/2006

|                                                                                          |         |
|------------------------------------------------------------------------------------------|---------|
| Visiting Professor<br>Thomas Jefferson University Hospital<br>Philadelphia, Pennsylvania | 10/2006 |
| Visiting Professor<br>University of Washington<br>Seattle, Washington                    | 04/2008 |
| Visiting Professor<br>Johns Hopkins University School of Medicine<br>Baltimore, Maryland | 05/2008 |
| Visiting Professor<br>University of Maryland School of Medicine<br>Baltimore, Maryland   | 05/2008 |
| Visiting Professor<br>Thomas Jefferson University Hospital<br>Philadelphia, Pennsylvania | 06/2010 |
| Visiting Professor<br>Royal National Orthopaedic Hospital<br>London, United Kingdom      | 06/2012 |
| Visiting Professor<br>University of Washington<br>Seattle, Washington                    | 03/2015 |

### **Clinical Practice, Interests, and Accomplishments**

Catherine C. Roberts, M.D. is a board-certified radiologist subspecializing in musculoskeletal imaging. She is additionally board certified in both Clinical Informatics by the American Board of Preventative Medicine (ABPM). She is a Certified Physician Executive by the Certifying Commission in Medical Management. She has Health Information Technology Leadership Certification from the American Association for Physician Leadership (AAPL). Dr. Roberts is a formerly Certified Six Sigma Black Belt by the American Society of Quality.

Dr. Roberts has served on multiple quality-related committees at a national level, including the American College of Radiology (ACR) Appropriateness Criteria Committee, National Quality Forum (NQF) Musculoskeletal Steering Committee, and American Academy of Orthopaedic Surgeons (AAOS) Committee on Evidence-Based Quality and Value, where she is actively involved with establishing and monitoring national healthcare quality performance metrics. She has co-authored over 50 ACR Appropriateness Criteria topics on musculoskeletal imaging. She has instituted national quality metrics with the National Quality Forum since 2010. Dr. Roberts is former panel chair for the Musculoskeletal Expert

Panel for ACR Appropriateness Criteria. She previously completed a six-year term on the Association of University Radiologists (AUR) Board of Directors while she served as the national Chair of the AUR Education Committee. She actively participated on committees in subspecialty societies, including the International Skeletal Society (ISS), Society of Academic Bone Radiologists (SABR), American Medical Informatics Association (AMIA), and Society of Skeletal Radiology (SSR).

Dr. Roberts practiced at Mayo Clinic in Arizona (MCA) for over 15 years where she held significant quality and safety leadership positions. She was the MCA Patient Safety Officer and Chair of the Patient Safety Subcommittee for 8 years. She was the Chair of Quality and Safety for the MCA Radiology Department (3 years). She was the MCA Medical Director for both the Quality Academy (5 years) and Contracting and Payer Relations (4 years). She participated on over 75 Mayo Clinic committees throughout her tenure. She reached the highest possible academic rank of Professor of Radiology in the Mayo Clinic College of Medicine.

Dr. Roberts has both formal training and extensive practical experience in quality improvement and clinical informatics. While at Mayo Clinic, she taught quality improvement methodology, monitored and intervened on quality metrics, and actively mentored quality improvement projects. Six of her 73 abstracts and six of her 88 peer-reviewed publications are on quality improvement. Fifteen of her 97 national and international presentations have been on safety and quality improvement. She has completed 7 invited national and international visiting professorships. She has authored 75 book chapters and co-authored 2 radiology textbooks. She has over 285 total publications.

Dr. Roberts is an Arizona native who attended public schools, including Arizona State University (ASU) and University of Arizona College of Medicine. She has been married to her high school sweetheart, John Roberts, for over 30 years. They have two adult children, Emma and Austin. Dr. Roberts' first American ancestor was Stephen Hopkins, a Pilgrim on the original Mayflower voyage from England. She has numerous Revolutionary War ancestors. Her maternal grandfather, Eugene "Chief" Justice, was a Chief Warrant Officer in the U.S. Army, serving in World War II and Korea. Her father is a retired engineer who dedicated his career to military defense projects. Her paternal great uncle was Ross E. Rowell, a highly decorated U.S. Marine Corps Lieutenant General who is buried in Arlington National Cemetery.

## Research Grants Awarded

### Completed Grants

#### Federal

|                        |                                                                                                                                                                                                                   |                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Principal Investigator | A. Charge-coupled device (CCD) mammography. B. Occurrence of fibroadenomas in postmenopausal women referred for breast biopsy. University of Arizona Health Sciences Center. Funded by NIH Student Research Grant | 05/1991 - 07/1991 |
| Principal Investigator | A. Mammographic surveillance of breast cancer patients. B. Breast cancer diagnosis in women with augmentation                                                                                                     | 06/1992 - 07/1992 |

implants. University of Arizona Health Sciences Center.  
Funded by NIH Student Research Grant

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|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Principal Investigator | A. Assessment of truncal edema using modified Harpenden skinfold calipers. B. Skin microvascular architecture and perfusion in human postmastectomy edema. Research took place at St. George's Hospital, London, England. Funded by American Heart Association Research Fellowship Grant | 07/1993 - 06/1994 |
|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|

|                        |                                                                                                                          |                   |
|------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------|
| Principal Investigator | Magnetic resonance imaging of melanoma. Barrow Neurological Institute, Phoenix, AZ. Funded by NIH Student Research Grant | 12/1994 - 03/1995 |
|------------------------|--------------------------------------------------------------------------------------------------------------------------|-------------------|

### **Mayo Clinic**

|                        |                                                                                                             |                   |
|------------------------|-------------------------------------------------------------------------------------------------------------|-------------------|
| Principal Investigator | The Rise and Fall of the Silicone Breast Implant. Mayo Clinic Arizona. Funded by NIH Student Research Grant | 11/1995 - 01/1996 |
|------------------------|-------------------------------------------------------------------------------------------------------------|-------------------|

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| Principal Investigator | Electronic Radiology Teaching File: Chest and Bone Imaging. Funded by CE-10 | 01/2004 - 12/2004 |
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| Principal Investigator | AUR-Philips Faculty Development Program. Competitive travel grant to attend program. Funded by Association of University Radiologists | 04/2006 |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------|---------|

|                        |                                                                 |                   |
|------------------------|-----------------------------------------------------------------|-------------------|
| Principal Investigator | Online Research Mentoring Course. Funded by Mayo Clinic Arizona | 09/2006 - 12/2006 |
|------------------------|-----------------------------------------------------------------|-------------------|

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|------------------------|------------------------------------------------------------------------------------|-------------------|
| Principal Investigator | The Human Factor: Improving Teamwork, Communication and Hand-offs. Funded by EI-10 | 01/2009 - 12/2009 |
|------------------------|------------------------------------------------------------------------------------|-------------------|

|                        |                                                                                                                                         |                   |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| Principal Investigator | Integrated Patient Radiation Dose Record. Funded by Mayo Clinic Rochester Executive Board - Incented Investment in Mayo's Future (IIMF) | 01/2009 - 01/2010 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|-------------------|

## Bibliography

### Peer-reviewed Articles

1. Fajardo LL, **Roberts CC**, Hunt KR. Mammographic surveillance of breast cancer patients: should the mastectomy site be imaged? *AJR Am J Roentgenol*. 1993 Nov; 161(5):953-5. PMID: 8273633
2. **Roberts CC**, Stanton AW, Pullen J, Bull RH, Levick JR, Mortimer PS. Skin microvascular architecture and perfusion studied in human postmastectomy oedema by intravital video-capillaroscopy. *Int J Microcirc Clin Exp*. 1994 Nov-Dec; 14(6):327-34. PMID: 7543461
3. Fajardo LL, Harvey JA, McAleese KA, **Roberts CC**, Granstrom P. Breast cancer diagnosis in women with subglandular silicone gel-filled augmentation implants. *Radiology*. 1995 Mar; 194(3):859-62. PMID: 7862991
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\* Indicates that the primary author was a mentee of Dr. Roberts during publication.

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