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| **Curriculum Vitae and Bibliography** |

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

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| **Personal Information** |
| Place of Birth: | Phoenix, AZ  |
| Citizenship: | United States of America |

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| **Present Academic Rank and Position** |  |
| **Musculoskeletal Radiologist** – vRad, a MEDNAX Company, Eden Prairie, MN | 01/2018 - Present |
| **Clinical Professor of Radiology** - University of Arizona College of Medicine | 03/2016 - Present |

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| **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 |
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| **Additional Education** |  |
| RSNA Introduction to Research ProgramElected ParticipantAmerican Roentgen Ray Society Annual MeetingNew Orleans, Louisiana | 05/1999 |
| Pay for PerformanceAmerican College of Radiology | 07/2007 |
| Quality Academy: Process Improvement TEAMs Training CourseArizona State UniversityTempe, Arizona | 07/2007 - 09/2007 |
| Crucial ConversationsMayo Clinic | 09/2007 |
| Customer Centered Culture MethodologyMayo ClinicScottsdale, Arizona | 10/2007 |
| Creating a Just CultureMayo Clinic | 02/2008 |
| The 8th Habit: From Effectiveness to Greatness - Stephen R. CoveyMayo Clinic | 05/2008 |
| Emerging Leaders Roundtable Series (Dr. V. Trastek)Mayo Clinic | 09/2009 - 11/2009 |
| Senior Leadership Mentor Series (Dr. L. Milde)Mayo Clinic | 10/2009 - 12/2009 |
| ACPE Physician in Management - MarketingAmerican College of Physician Executives | 11/2009 |
| ACPE Physician in Management - NegotiationAmerican College of Physician Executives | 11/2009 |
| AAMC Mid-Career Women Faculty Professional Development SeminarAssociation of American Medical CollegesPhoenix, Arizona | 12/2009 |
| ACPE Informatics: Successful Information Technology Change Management; High Tech and High ReliabilityAmerican College of Physician Executives | 12/2009 |
| ACPE Physician in Management - InfluenceAmerican College of Physician Executives | 12/2009 |
| Accelerated Leader Program (Dr. V. Trastek)Mayo Clinic | 03/2010 - 11/2010 |
| ACPE Three Faces of QualityAmerican College of Physician Executives | 05/2011 - 06/2011 |
| IHI Patient Safety Executive Development ProgramInstitute for Healthcare Improvement (IHI)Boston, Massachusetts | 09/2011 |
| ACPE Managing Physician PerformanceAmerican College of Physician Executives | 06/2012 - 07/2012 |
| Leadership Coaching (Dean Newlund)Mission Facilitators International, Inc. | 09/2012 |
| ACPE Effective Physician LeadershipAmerican College of Physician Executives | 10/2012 |
| ACPE MetaLeadershipAmerican College of Physician Executives | 10/2012 |
| ACPE Health LawAmerican College of Physician Executives | 10/2012 - 11/2012 |
| ACPE Science of High ReliabilityAmerican College of Physician Executives | 11/2012 |
| Certified Physician Executive (CPE) Certification ProgramCertifying Commission on Medical ManagementScottsdale, Arizona | 11/2013 |
| Benefits RealizationAmerican Association for Physician Leadership (formerly ACPE) | 01/2014 |
| Communication, Change Management and TrainingAmerican Association for Physician Leadership (formerly ACPE) | 01/2014 |
| Controlled Medical Technology and SemanticsAmerican Association for Physician Leadership (formerly ACPE) | 01/2014 |
| Electronic PrescribingAmerican Association for Physician Leadership (formerly ACPE) | 2014 |
| Implementation and SupportAmerican Association for Physician Leadership (formerly ACPE) | 01/2014 |
| Molding CultureAmerican Association for Physician Leadership (formerly ACPE) | 01/2014 |
| Optimization: Post-Go LiveAmerican Association for Physician Leadership (formerly ACPE) | 01/2014 |
| Organizational Culture, Planning and StrategyAmerican Association for Physician Leadership (formerly ACPE) | 01/2014 |
| Social Media and mHealth CareAmerican Association for Physician Leadership (formerly ACPE) | 01/2014 |
| The CMO-CIO PartnershipAmerican Association for Physician Leadership (formerly ACPE) | 01/2014 |
| The Fine Art of Asking WhyAmerican Association for Physician Leadership (formerly ACPE) | 01/2014 |
| ACPE Integrated Health Systems: Physician EngagementAmerican College of Physician Executives (ACPE) | 07/2014 |
| Health Information Technology Leadership CertificationAmerican Association for Physician Leadership | 02/2015 |
| Utilization Management Peer Reviewer TrainingAmerican Board of Quality Assurance and Utilization Review Physicians, Inc. (ABQAURP) | 11/2016 |
| Certified Information Systems Security Professional (CISSP) TrainingStackSkills | 03/2017 |

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| **Certification** |  |
| **Board Certifications** |  |
| **American Board of Preventive Medicine** |  |
| Clinical Informatics | 2016 - 2026 |
| **American Board of Quality Assurance and Utilization Review Physicians, Inc. (ABQAURP)** |  |
| Certified in Health Care Quality and Management (CHCQM)/Patient Safety/Risk Management | 2015 - 2017 |
| **American Board of Radiology (ABR)** |  |
| Diagnostic Radiology | 2001 – Present (Lifetime) |
| **American Society of Quality (ASQ)** |  |
| Certified Six Sigma Black Belt | 2018 - Present |
| **Certifying Commission in Medical Management** |  |
| Certified Physician Executive (CPE) | 2014 - 2024 |
| **International Board for Certification of Safety Managers** |  |
| Certified Patient Safety Officer | 2018 - Present |
| **Utilization Review Accreditation Commission (URAC)** |  |
| 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 |

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| **Licensure** |  |  |
| Arizona | 25537  | 01/1997 - Present |
| California | C54794 | 07/2011 - Present |
| Colorado | DR.0059014  | 07/2017 - Present |
| Florida | ME83924 | 01/2001 - Present |
| Georgia | 072776  | 09/2014 - Present |
| Illinois | 36144265  | 09/2017 - Present |
| Iowa | MD-44651  | 10/2017 - Present |
| Kentucky | TP948 | 09/2018 - Present |
| Louisiana | 307186  | 09/2017 - Present |
| Michigan | 4301116389 | 08/2018 - Present |
| Minnesota | 50709  | 05/2008 - Present |
| Mississippi | 25425  | 11/2017 - Present |
| Missouri | 2017033091  | 09/2017 - Present |
| Montana | MED-PHYS-LIC-68419 | 08/2018 - Present |
| Nevada | SP414  | 09/2017 - Present |
| New Mexico | TM2017-0703  | 08/2017 - Present |
| New York | 296524 | 10/2018 - Present |
| Ohio | 35.132211  | 08/2017 - Present |
| Oklahoma | 34220 | 09/2018 - Present |
| Oregon | MD184419  | 07/2017 - Present |
| Pennsylvania | MD462007  | 07/2017 - Present |
| Washington | MD60777758  | 09/2017 - Present |
| West Virginia | 28456 | 07/2018 - Present |
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| **Honors and Awards** |  |
| **Alpha Epsilon Delta** - Arizona State University | 01/1987 |
| **Golden Key National Honor Society** - Arizona State University | 01/1988 |
| **Phi Kappa Phi** - Arizona State University | 01/1989 |
| **Summa Cum Laude** - Arizona State University | 01/1990 |
| **Medical School Honors for 15 courses** - University of Arizona College of Medicine | 01/1991 - 01/1993 |
| **12th Annual Arizona Health Sciences Center Medical Student Research Forum, First Prize** - University of Arizona College of Medicine | 01/1992 |
| **American Federation of Clinical Research Subspecialty Award, Best Abstract in Health Care Research** - University of Arizona College of Medicine | 01/1993 |
| **Robert F. Allen Memorial Award for Research** - University of Arizona College of Medicine | 01/1993 - 01/1995 |
| **A.C. Simon Memorial Award for Academic Merit** - University of Arizona College of Medicine | 01/1996 |
| **Alpha Omega Alpha Medical Honor Society** - University of Arizona College of Medicine | 01/1996 |
| **Honors and Awards Committee Excellence in Research Award** - University of Arizona College of Medicine | 01/1996 |
| **Janet M. Glasgow Memorial Achievement Citation Award** - University of Arizona College of Medicine | 01/1996 |
| **Cum Laude Award, Scientific Exhibit: Midnight Manifestations of Head Trauma** - American Society of Neuroradiology | 05/2001 |
| **Silver Medal, Scientific Exhibit: Unusual Appearances of Benign and Malignant Disease on Breast MRI** - American Roentgen Ray Society | 05/2003 |
| **Cum Laude Award, Scientific Exhibit: Assessment of the Delta Reverse Shoulder Arthroplasty** - Radiological Society of North America | 11/2005 |
| **AUR-Philips Faculty Development Program** - Association of University Radiologists | 04/2006 |
| **Certificate of Merit, Scientific Exhibit: Radiology of Hip Replacement Hardware** - American Roentgen Ray Society | 05/2006 |
| **First Prize, Case Reports; Mentor of first author Fellow** - Academic Excellence Day, Mayo Clinic | 05/2006 |
| **Bronze Medal, Scientific Exhibit: Demystifying MRI of the Wrist (4th Author)** - American Roentgen Ray Society | 05/2007 |
| **First Prize, Case Reports; Mentor of first author Fellow** - Academic Excellence Day, Mayo Clinic | 05/2007 |
| **Silver Medal, Scientific Exhibit: MRI Assessment of Bone Marrow** - American Roentgen Ray Society | 05/2007 |
| **Highly Commended for Diagnostic and Surgical Imaging Anatomy: Musculoskeletal** - British Medical Association Medical Book Competition | 09/2007 |
| **Certificate of Merit, Scientific Exhibit: Demystifying MRI of the Wrist (3rd Author)** - Radiological Society of North America | 11/2007 |
| **Magna Cum Laude Award, Scientific Exhibit: Radiology of Small Joint Replacement Hardware (3rd Author)** - Radiological Society of North America | 11/2007 |
| **Service Excellence Team Award** - Mayo Clinic in Arizona, Mayo Clinic | 10/2009 |
| **Volunteer Service Award** - American Board of Radiology | 2014 |
| **Volunteer Service Award** - American Board of Radiology | 2015 |
| **Teacher of the Year (Nominee)** - Department of Radiology, Mayo Clinic | 05/2016 |
| **Teacher of the Year (Nominee)** - Department of Radiology, Mayo Clinic | 05/2017 |

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| **Previous Professional Positions and Major Appointments** |  |
| **Senior Associate Consultant** - Department of Radiology, Mayo Clinic, Scottsdale, Arizona | 06/2002 - 06/2005 |
| **Assistant Professor in Radiology** - Mayo Clinic College of Medicine and Science | 04/2003 - 04/2007 |
| **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 |
| **Associate Professor in Radiology** - Mayo Clinic College of Medicine and Science | 05/2007 - 12/2012 |
| **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 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 |
| **Consultant** - Department of Radiology, Mayo Clinic, Scottsdale, Arizona | 07/2005 – 12/31/2017 |
| **Medical Director - Arizona** - Mayo Clinic Quality Academy, Scottsdale, Arizona | 10/2012 - 12/31/2017 |
| **Professor of Radiology** - Mayo Clinic College of Medicine and Science | 01/2013 – 12/31/2017 |

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

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| **Professional Memberships and Services** |  |
| Alliance of Academic Musculoskeletal Radiologists |  |
| Founding Board Member | 05/2014 - Present |
| 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 - Present |
| AAOS Clinical Practice Guideline on Management of Postoperative Surgical Site Infection |  |
|  American College of Radiology Representative | 12/2017 - Present |
| 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 - Present |
| 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 - Present |
| Musculoskeletal Tumor Society Systematic Review |  |
| American College of Radiology Representative | 01/2016 - Present |
| 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 |  |
| 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 - Present |
| 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 - Present |
| Appropriateness Criteria Committee, Musculoskeletal |  |
| Member | 04/2007 – 04/2014 |
| Panel Chair | 04/2014 - Present |
| 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 |  |
| 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 |
| 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 and Metastatic Bone Disease |  |
| Member | 08/2007 - 02/2008 |
| Member | 07/2010 - 01/2011 |
| Imaging after Shoulder Arthroplasty |  |
| Panel Chair | 07/2015 - 02/2016 |
| 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 |
| 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 - Present |
| 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) |  |
| Member | 06/2015 - Present |
| 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 |  |
| Co-Chairman | 09/2006 - 03/2007 |
| Musculoskeletal Module #76 |  |
| Member | 08/2008 - 11/2008 |
| Self-Assessment Module Musculoskeletal Radiology 2010 |  |
| Member | 08/2010 |
| General Radiology Improvement Database (GRID) Committee |  |
| Member | 08/2007 - 05/2012 |
| American Heart Association |  |
| Research Fellowship Advisory Committee |  |
| Member | 01/1994 - 01/1995 |
| American Medical Association |  |
| Member | 01/1991 - Present |
| American Medical Informatics Association |  |
| Member | 03/2016 - Present |
| Abstract Reviewer | 04/2016 - Present |
| Scientific Program Committee Member | 10/2017 - Present |
| Education Workgroup |  |
| Member | 03/2016 - Present |
| 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) |  |
| 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 - Present |
| 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 |
| 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 - Present |
| 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 - Present |
| 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 |  |
| 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 - Present |
| 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 - Present |
| Secretary | 07/2018 - Present |
| Treasurer | 07/2015 -07/2018 |
| Electronic Media Committee |  |
| Member | 07/2011 - Present |
| Chair | 08/2016 - 07/2018 |
| Rules Committee |  |
| Member | 07/2010 - 07/2013 |
| Society of Skeletal Radiology |  |
| Member | 01/2004 - Present |
| 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 - Present |
| Program Committee |  |
| Member | 03/2017 - Present |
| 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 |

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| **Journal Responsibilities** |

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| **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 - Present |
| 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 |

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| **Journal Other Responsibilities** |  |
| Academic Radiology |  |
| Journal Reviewer | 01/2004 - Present |
| American Journal of Roentgenology |  |
| Journal Reviewer | 06/2005 - Present |
| Mayo Clinic Proceedings |  |
| Journal Reviewer | 10/2006 - 01/2014 |
| Radiographics |  |
| Journal Reviewer | 11/2005 - Present |
| Radiology |  |
| Journal Reviewer | 01/2008 - 06/2017 |
| Radiology Case Reports |  |
| Journal Reviewer | 12/2005 - 12/2010 |
| Skeletal Radiology |  |
| Journal Manuscript Reviewer | 01/2013 - Present |

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| **Educational Activities** |

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| **Curriculum and Course Development** |  |
| Mock Radiology BoardsOrganize 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 ImagingNational CME Meeting Co-course DirectorPhoenix, Arizona | 02/2006 |
| Advanced Radiology Life Support - Created simulation center scenariosConverted 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 formatLead the team to convert the 8 hour didactic Silver Quality Essentials course into an online course with interactive electronic exercisesQuality Academy | 09/2013 - 03/2014 |

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| **Teaching Intramural** |  |
| General RadiologyInformal daily teaching of medical students and junior radiology residents during radiology residencyUniversity of Arizona Health CenterTucson, Arizona | 1997 - 2001 |
| Introduction to RadiologyIntroductory general radiology lectures to medical studentsUniversity of ArizonaTucson, Arizona | 2000 - 2001 |
| Musculoskeletal RadiologyDaily, one-on-one musculoskeletal fellow and resident teaching with formal lectures every fifth weekDepartment of Diagnostic Radiology, Mayo ClinicScottsdale, Arizona | 2002 – 12/2017 |
| Musculoskeletal Radiology1 hour long conferences Radiology Residents to St. Joseph'sDepartment of Diagnostic Radiology, St. Joseph's HospitalPhoenix, Arizona | 2002 - 2005 |
| Musculoskeletal RadiologyNoon conference for Radiology staffScottsdale, Arizona | 2002 - 2006 |
| Advanced Radiology Life SupportTaught the Advanced Radiology Life Support course to health professionalsTucson, Arizona | 01/17/2002 |
| Basic Life SupportTaught the American Heart Association Basic Life Support course to health professionalsScottsdale, Arizona | 06/2002 |
| Advanced Radiology Life SupportTaught the Advanced Radiology Life Support course to health professionalsTucson, Arizona | 10/27/2002 |
| Radiology for Medical Students - Internet Teaching Site for Medical StudentsEditorial Board. Radiological Society of North America Research and Education Fund | 2003 - 2016 |
| Advanced Radiology Life SupportTaught the Advanced Radiology Life Support course to health professionalsRochester, Minnesota | 01/17/2004 |
| Basic Life SupportTaught the American Heart Association Basic Life Support course to health professionalsScottsdale, Arizona | 05/2004 |
| Advanced Radiology Life SupportTaught the Advanced Radiology Life Support course to health professionalsScottsdale, Arizona | 09/11/2004 |
| Advanced Radiology Life SupportTaught the Advanced Radiology Life Support course to health professionalsAlbuquerque, New Mexico | 09/19/2004 |
| Basic Life SupportTaught the American Heart Association Basic Life Support course to health professionalsScottsdale, Arizona | 05/2006 |
| Mayo Clinic Quality AcademyPresentation with Douglas L. Wood, M.D. Reviewed Quality Academy's newest online teaching module.Mayo Clinic Education Grand RoundsRochester, Minnesota | 06/18/2009 |
| Basic Life SupportTaught the American Heart Association Basic Life Support course to health professionalsScottsdale, Arizona | 09/2010 |
| Advanced Radiology Life SupportTaught the Advanced Radiology Life Support course to health professionalsScottsdale, Arizona | 09/2010 - 06/2014 |
| Applied Quality EssentialsQuality Academy | 05/2011 |
| Basic Life SupportTaught the American Heart Association Basic Life Support course to health professionalsScottsdale, Arizona | 09/2011 |
| Applied Quality EssentialsQuality Academy | 11/2011 |
| Silver Quality EssentialsQuality Academy | 08/2012 |
| Perry Outreach ProgramA full day course in the Simulation Center that encourages high school age girls to go into medicine.Arizona | 08/2012 |
| Silver Quality EssentialsQuality Academy | 09/2012 |
| Basic Life SupportTaught the American Heart Association Basic Life Support course to health professionalsScottsdale, Arizona | 09/2012 |
| Silver Quality EssentialsQuality Academy | 11/2012 |
| Silver Quality EssentialsQuality Academy | 05/2013 |
| Silver Quality EssentialsQuality Academy | 09/2013 |
| Basic Life SupportTaught the American Heart Association Basic Life Support course to health professionalsScottsdale, Arizona | 09/2013 |
| Silver Quality EssentialsQuality Academy | 12/2013 |
| Silver Quality EssentialsQuality Academy | 04/2014 |
| Commonly Missed Fractures - Lower ExtremityDepartment of Radiology | 09/2014 |
| Basic Life SupportTaught the American Heart Association Basic Life Support course to health professionalsScottsdale, Arizona | 09/2014 |
| Silver Quality EssentialsQuality Academy | 11/2014 |
| Teaching with iTunes UNP/PA Grand Rounds | 11/2014 |
| Quality Improvement in Healthcare: Quality Academy and YouNP/PA Grand Rounds | 11/2014 |
| Biomedical Informatics 504 (BMI 504)Adjunct FacultyArizona State University | 12/2014 - Present |
| Silver Quality EssentialsQuality Academy | 05/2015 |

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| **Mentorship** |  |
| Alcala, Jennifer (Radiology Resident & Fellow)**Current Status:** Academic Radiologist, University of Arizona, Tucson, AZ | 07/1999 - 07/2002 |
| DeMartini, Joseph (Radiology Fellow)**Current Status:** Academic Radiologist, University of Washington | 07/2002 - 06/2003 |
| Huong, Le-Petross (Radiology Fellow)**Current Status:** Academic Radiologist, M.D. Anderson | 07/2002 - 06/2003 |
| Accord, Debra (Radiology Fellow)**Current Status:** Private Practice Radiologist | 07/2003 - 06/2004 |
| Moyer, Adrian (Radiology Fellow)**Current Status:** MSK Staff Scottsdale Medical Imaging Limited | 07/2003 - 06/2004 |
| Meek, Douglas (Radiology Fellow)**Current Status:** Private Practice Radiologist | 07/2004 - 06/2005 |
| Wellnitz, Clinton (Radiology Fellow)**Current Status:** Consultant Radiologist, Mayo Clinic Arizona | 07/2004 - 06/2005 |
| Bracamonte, Jesse (Family Medicine Resident)**Current Status:** **Outcome:** \*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)**Current Status:** Private Practice Radiologist**Outcome:** 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)**Current Status:** Private Practice Radiologist | 07/2005 - 06/2006 |
| Burkholz, Kimberly (Radiology Fellow)**Current Status:** Private Practice Radiologist at vRad**Outcome:** \*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. \*Burkholz KJ, Roberts CC, Hattrup SJ. Scapular spine fracture as a complication of re | 07/2006 - 06/2007 |
| Dorsey, Michelle (Radiology Fellow)**Current Status:** Private Practice Radiologist**Outcome:** 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)**Outcome:** Khalsa SK, Roberts CC, Underhill MS. Acute pulmonary toxicity from thalidomide in a patient with multiple myeloma. Radiology Case Reports 2007; 2(2):41-3. | 12/2006 - 01/2007 |
| Evans, J. Mark (Radiology Fellow)**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. | 07/2007 - 06/2008 |
| Swartz, Paul (Radiology Fellow)**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. | 07/2007 - 06/2008 |
| Kujak, Jennifer (Radiology Fellow)**Current Status:** Private Practice Radiologist, Thousand Oaks, CA | 07/2008 - 06/2009 |
| Lorans, Roxanne (Radiology Fellow)**Current Status:** Mayo Clinic in Arizona, Consultant Radiologist | 07/2008 - 06/2009 |
| Nowicki, Zofia (Radiology Fellow)**Current Status:** Private Practice Radiologist, Phoenix, AZ | 07/2008 - 06/2009 |
| Hill, Destin (Family Medicine Resident)**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. | 01/2009 - 01/2010 |
| Christian, Brett (Radiology Fellow)**Current Status:** Private Practice Radiologist | 07/2009 - 06/2010 |
| Fitzgerald, Jeffrey (Radiology Fellow)**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\_ | 07/2010 - 06/2011 |
| Patel, Tarang (Radiology Fellow)**Current Status:** Private Practice Radiologist | 07/2010 - 06/2011 |
| Mullen, Bradley (Radiology Fellow)**Current Status:** Private Practice Radiologist Phoenix, AZ | 01/2011 - 01/2012 |
| Roper, Glade (Radiology Fellow)**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" | 01/2011 - 01/2012 |
| Smith, Maxwell (Consultant)**Outcome:** New Staff "Buddy" Program | 09/2011 - 03/2012 |
| Bryce, Alan (Consultant)**Outcome:** New Staff "Buddy" Program | 01/2012 - 06/2012 |
| Bues, Martin (Consultant)**Outcome:** New Staff "Buddy" Program | 05/2012 - 11/2012 |
| Cross, Michael (Connor) (Radiology Fellow)**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 | 07/2012 - 06/2013 |
| Kohl, Chad (Radiology Fellow)**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. | 07/2012 - 06/2013 |
| Tarbox, Daniel (Layne) (Radiology Fellow)**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. | 07/2012 - 06/2013 |
| Zell, Steven (Radiology Fellow)**Current Status:** Private Practice Radiologist**Outcome:** \*Zell SI, Roberts CC. Quality improvement project pitfalls and potential topics. Society of Skeletal Radiology Annual Meeting. 2013. | 07/2012 - 06/2013 |
| Schwedt, Todd (Consultant)**Outcome:** New Staff "Buddy" Program | 09/2012 - 02/2013 |
| Unwala, Rashimi (Consultant)**Outcome:** New Staff "Buddy" Program | 11/2012 - 04/2013 |
| Judson, Kurtis (Consultant)**Outcome:** New Staff "Buddy" Program | 02/2013 - 08/2013 |
| Colvin, Otis (Radiology Fellow)**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.  | 07/2013 - 06/2014 |
| Escobar, Eduardo (Radiology Fellow)**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. | 07/2013 - 06/2014 |
| Malcom, Christopher (Radiology Fellow) | 07/2013 - 06/2014 |
| Boe, Nicholas (Consultant)**Outcome:** New Staff "Buddy" Program | 08/2013 - 01/2014 |
| 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)**Current Status:** Private Practice Radiologist at vRad | 07/2014 - 12/2017 |
| Tomblinson, Courtney (Radiology Resident) | 07/2014 - 12/2017 |
| Bellamkonda, Venk (MD)**Description:** Quality Academy Project Review Mentee | 01/2015 |
| Nestler, David (MD)**Description:** Quality Academy Project Review Mentee | 01/2015 |
| O'Horo, Jack (MD)**Description:** Quality Academy Project Review Mentee | 01/2015 |
| Delbridge, Chris (Radiology Fellow) | 07/2015 - 09/2015 |
| Gupta, Mamta (Radiology Fellow)**Current Status:** Private Practice Radiologist at vRad | 07/2015 - 06/2016 |
| 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 |

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| **Academic Career Development** |  |
| Professional Communications WorkshopMayo ClinicScottsdale, Arizona | 04/2004 |
| Test-Writing Workshop, Invited ParticipantHalf day training to write Self-Assessment Modules (SAMs) that are required for Radiologists undergoing Board recertificationAmerican Roentgen Ray Society 105th Annual MeetingNew Orleans, Louisiana | 05/2005 |
| How People Learn: A Cognitive Perspective with Implications for TeachingMayo Clinic | 11/2005 |
| Fundamentals of Simulation: Turn Key SolutionsMayo Clinic | 10/2010 |
| Quality Fellows Program - Silver CertificationMayo Clinic | 11/2010 |
| Teaching Principles and Skills for Simulation Based EducationMayo Clinic | 11/2010 |
| Radiology Leadership InstituteAmerican College of Radiology | 09/2013 - Present |

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| **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 - 09/2010 |
| Quality of Care Subcommittee |  |
| Mayo Clinic Quality Review Board |  |
| Vice Chair | 11/2009 - 12/2013 |
| Member | 11/2009 - 09/2014 |
| Chair | 12/2013 - 09/2014 |
| Mayo Clinic Education Committee |  |
| Sit With Member | 09/2009 - 12/2009 |
| Academic Appointments and Promotions Committee - Mayo Clinic |  |
| Allied Health Professionals Academic Appointment and Promotions Subcommittee |  |
| Member | 01/2012 - 11/2014 |
| Administrative Committee of the Mayo Clinic Education Committee |  |
| Member | 06/2009 - 08/2009 |
| Trip and Travel Committee - Mayo Clinic |  |
| Member | 02/2010 - 12/2013 |
| Mayo Clinic Enterprise |  |
| Magnetic Resonance Imaging Safety Committee |  |
| Member | 01/2003 - 01/2004 |
| Mayo Clinic Leadership Council for Alumni Philanthropy |  |
| Member | 09/2011 - 09/2016 |
| Mayo Clinic Quality Academy |  |
| Education Committee |  |
| Member | 10/2012 - 12/2017 |
| Mayo Policy Management Group |  |
| Member | 06/2013 - 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 - 12/2014 |
| Mayo Clinic Rochester Committees |  |
| Clinical Practice Committee - Rochester |  |
| Clinical Practice Quality Oversight Subcommittee - Rochester |  |
| Mortality Review Subcommittee |  |
| Member | 01/2009 - 03/2013 |
| **Mayo Clinic in Arizona** |  |
| Department of Administration |  |
| Mentorship Program |  |
| Member | 09/2005 - 12/2005 |
| Department of Laboratory Medicine/Pathology |  |
| Search Committee |  |
| Member | 09/2006 - 02/2007 |
| Member | 11/2012 - 12/2012 |
| Department of Neurology |  |
| Department Chair Search Committee |  |
| Member | 02/2017 - 04/2017 |
| Department of Orthopedics |  |
| Chairman Search Committee |  |
| Member | 07/2008 - 02/2009 |
| Department of Physical Medicine & Rehabilitation |  |
| Physical Medicine and Rehabilitation Staff Search Committee |  |
| Member | 01/2017 - 06/2017 |
| Department of Psychiatry & Psychology |  |
| Clinical Psychologist Search Committee |  |
| Member | 11/2016 - 02/2017 |
| Department of Radiology |  |
| Education Coordinator | 01/2003 - 03/2007 |
| Chairman Search Committee |  |
| Member | 09/2006 - 11/2006 |
| Chest and Interventional Radiology Search Committee |  |
| Member | 01/2003 - 01/2004 |
| Division of Musculoskeletal Radiology |  |
| Search Committee |  |
| Member | 11/2015 - 06/2016 |
| Education Committee |  |
| Vice Chair | 04/2005 - 03/2007 |
| Musculoskeletal Radiology Fellowship |  |
| Associate Program Director | 08/2010 - 08/2012 |
| Neuroradiology Search Committee |  |
| Member | 11/2005 - 07/2006 |
| Quality Committee |  |
| Chair | 03/2007 - 01/2010 |
| Recruitment Committee |  |
| Molecular Imager Search Committee |  |
| Member | 05/2007 - 12/2007 |
| Division of Hand and Plastic Surgery |  |
| Hand Surgeon Search Committee |  |
| Member | 12/2014 - 05/2015 |
| Mayo Clinic Arizona Committees |  |
| Development Committee |  |
| Member | 01/2003 - 12/2005 |
| Executive Operations Team - Arizona |  |
| Administrative Committee of the Board |  |
| Member | 06/2008 - 09/2009 |
| Vice Chair | 10/2008 - 09/2009 |
| Clinical Practice Committee - Arizona |  |
| Member | 01/2013 - 01/2016 |
| Clinical Practice Quality Oversight Committee |  |
| Member | 01/2016 - 12/2017 |
| Patient Safety Subcommittee |  |
| Member | 01/2003 - 01/2016 |
| Vice Chair | 01/2007 - 12/2007 |
| Chair | 01/2008 - 01/2016 |
| Executive Patient Safety Rounds |  |
| Member | 01/2007 - 12/2007 |
| Failure Mode Effect Analysis |  |
| Co-Process Sponsor | 02/2007 - 12/2007 |
| Failure Mode Effect Analysis Surgical Infection Prevention |  |
| Member | 01/2003 |
| MRI Intensive Review (Root Cause Analysis) |  |
| Member | 12/2002 - 05/2003 |
| Education Committee |  |
| Member | 01/2006 - 11/2014 |
| Internal Medicine Residency Internal Review Committee |  |
| Member | 09/2009 - 12/2009 |
| MCA School of Health Sciences |  |
| Vice Chair | 01/2005 - 12/2005 |
| Chair | 01/2006 - 11/2014 |
| Program Prioritization Subcommittee |  |
| Chair | 03/2005 - 05/2005 |
| Member | 03/2005 - 11/2014 |
| Chair | 03/2007 - 05/2007 |
| Chair | 03/2008 - 05/2008 |
| Medical and Laboratories Specialties Graduate Education Subcommittee |  |
| Member | 01/2003 - 12/2005 |
| Musculoskeletal Radiology Fellowship |  |
| Associate Program Director | 08/2010 - 03/2013 |
| Simulation Operations Subcommittee |  |
| Member | 01/2010 - 12/2013 |
| Surgery and Surgical Specialties Graduate Education Subcommittee |  |
| Member | 01/2001 - 12/2002 |
| Transitional Year Coordinating Subcommittee |  |
| Member | 01/2003 - 03/2007 |
| Personnel Committee |  |
| Member | 01/2016 - 06/2017 |
| Office of Travel Services |  |
| Member | 01/2010 - 12/2014 |
| Quality & Process Improvement Committee - Arizona |  |
| Member | 07/2008 - 12/2015 |
| Vice Chair | 01/2011 - 12/2011 |
| Mortality Review Subcommittee - Arizona |  |
| Member | 11/2008 - 03/2013 |
| Chair | 11/2008 - 03/2013 |
| Ex-Officio | 03/2013 - 12/2017 |
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| **Current Institutional/Departmental Administrative Responsibilities, Committee Memberships, and Other Activities** |
| University of Arizona College of Medicine |  |
| Interviewer/Evaluator | 10/2016 - Present |

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| **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 |  |
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| MRI of the Knee | 10/2005 |
| Mayo Alumni Association Annual Meeting |  |
| Jacksonville, Florida |  |
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| Imaging of the Pelvis | 02/2006 |
| Current Concepts in Clinical Imaging |  |
| Phoenix, Arizona |  |
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| Imaging of the Cervical Spine | 04/2006 |
| Emergency Medicine 2006 - Moving Forward |  |
| Scottsdale, Arizona |  |
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| MRI of Foot and Ankle Masses | 05/2006 |
| 106th Annual Meeting of the American Roentgen Ray Society |  |
| Vancouver, British Columbia, Canada |  |
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| MDCT Applications in the Foot and Ankle | 10/2006 |
| Jefferson Musculoskeletal Imaging Symposium |  |
| Philadelphia, Pennsylvania |  |
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| MRI Evaluation of Bone Marrow Signal Within the Pelvis | 10/2006 |
| Jefferson Musculoskeletal Imaging Symposium |  |
| Philadelphia, Pennsylvania |  |
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| Panel Discussion: Question and Answer Session with the Radiologist & Orthopedist | 10/2006 |
| Jefferson Musculoskeletal Imaging Symposium |  |
| Philadelphia, Pennsylvania |  |
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| Multi-detector CT Imaging of Sports Injuries in the Foot | 11/2006 |
| Radiological Society of North America 92nd Annual Meeting |  |
| Chicago, Illinois |  |
|  |  |
| Benign Bone Tumors | 04/2007 |
| University of Washington Radiology Review Course (Not Just for Residents!) |  |
| Seattle, Washington |  |
|  |  |
| Malignant Bone Tumors | 04/2007 |
| University of Washington Radiology Review Course (Not Just for Residents!) |  |
| Seattle, Washington |  |
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| Post-Surgical Imaging | 04/2007 |
| University of Washington Radiology Review Course (Not Just for Residents!) |  |
| Seattle, Washington |  |
|  |  |
| Evaluation of Bone Marrow in the Pelvis - Keynote Lecture | 05/2007 |
| 107th Annual Meeting of the American Roentgen Ray Society |  |
| Orlando, Florida |  |
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| MRI of Foot and Ankle Masses - Instructional Course | 05/2007 |
| 107th Annual Meeting of the American Roentgen Ray Society |  |
| Orlando, Florida |  |
|  |  |
| Diagnostic and Therapeutic Foot Injections - Refresher Course | 11/2007 |
| Radiological Society of North America 93rd Annual Meeting |  |
| Chicago, Illinois |  |
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| MDCT of Foot Sports Injuries - Refresher Course | 11/2007 |
| Radiological Society of North America 93rd Annual Meeting |  |
| Chicago, Illinois |  |
|  |  |
| Compartmental Anatomy for Bone Biopsy (Instructional Course) | 04/2008 |
| 108th Annual Meeting of the American Roentgen Ray Society |  |
| Washington, District of Columbia |  |
|  |  |
| Imaging of Musculoskeletal Tumors | 04/2008 |
| University of Washington Radiology Review Course (Not Just for Residents!) |  |
| Seattle, Washington |  |
|  |  |
| Imaging of Shoulder Joint Prostheses | 04/2008 |
| 108th Annual Meeting of the American Roentgen Ray Society |  |
| Washington, District of Columbia |  |
|  |  |
| Post-surgical Musculoskeletal Imaging | 04/2008 |
| University of Washington Radiology Review Course (Not Just for Residents!) |  |
| Seattle, Washington |  |
|  |  |
| Implementing Critical Tests and Results | 10/2008 |
| Quality, Efficiency and Pay-for-Performance: The Why, What and How |  |
| Phoenix, Arizona |  |
|  |  |
| Implementing Peer Review | 10/2008 |
| Quality, Efficiency and Pay-for-Performance: The Why, What and How |  |
| Phoenix, Arizona |  |
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| CT Efficiency Improvement | 12/2008 |
| Radiological Society of North America 94th Annual Meeting |  |
| Chicago, Illinois |  |
|  |  |
| Compartmental Anatomy for Bone Biopsy (Instructional Course) | 04/2009 |
| 109th Annual Meeting of the American Roentgen Ray Society |  |
| Boston, Massachusetts |  |
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| Cooking for AJR II: A Recipe for SAMS (Instructional Course) | 04/2009 |
| 109th Annual Meeting of the American Roentgen Ray Society |  |
| Boston, Massachusetts |  |
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| Musculoskeletal Radiology Image Bowl Competition | 12/2009 |
| Radiological Society of North America 95th Annual Meeting |  |
| Chicago, Illinois |  |
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| Critical Results & Critical Tests | 10/2010 |
| American College of Radiology: Maximizing Value in Radiology through Quality and Safety Improvements |  |
| Phoenix, Arizona |  |
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| Procedural Pause | 10/2010 |
| American College of Radiology: Maximizing Value in Radiology through Quality and Safety Improvements |  |
| Phoenix, Arizona |  |
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| Promoting a Culture of Safety | 10/2010 |
| American College of Radiology: Maximizing Value in Radiology through Quality and Safety Improvements |  |
| Phoenix, Arizona |  |
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| Safety Session | 10/2010 |
| American College of Radiology: Maximizing Value in Radiology through Quality and Safety Improvements |  |
| Phoenix, Arizona |  |
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| Imaging of the Cervical Spine | 03/2011 |
| Advances in Diagnostic Radiology |  |
| Scottsdale, Arizona |  |
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| MR Imaging of Bone Marrow | 03/2011 |
| Advances in Diagnostic Radiology |  |
| Scottsdale, Arizona |  |
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| Differential Diagnosis of Soft Tissue Masses on MRI | 06/2012 |
| Royal National Orthopaedic Hospital |  |
| London, United Kingdom |  |
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| Commonly Missed Entities and Interesting Cases in MSK Imaging | 03/2013 |
| Clinical Reviews 2013: 24th Annual Family Medicine and Internal Medicine Update |  |
| Scottsdale, Arizona |  |
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| Commonly Missed Diagnoses in MSK Imaging | 10/2013 |
| 16th Annual Mayo Clinic Internal Medicine Update |  |
| Sedona, Arizona |  |
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| Control and Change Management | 10/2013 |
| 16th Annual Mayo Clinic Internal Medicine Update |  |
| Sedona, Arizona |  |
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| Lean | 10/2013 |
| 16th Annual Mayo Clinic Internal Medicine Update |  |
| Sedona, Arizona |  |
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| Quality in Healthcare | 10/2013 |
| 16th Annual Mayo Clinic Internal Medicine Update |  |
| Sedona, Arizona |  |
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| Six Sigma | 10/2013 |
| 16th Annual Mayo Clinic Internal Medicine Update |  |
| Sedona, Arizona |  |
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| Teams, Tools and Methods | 10/2013 |
| 16th Annual Mayo Clinic Internal Medicine Update |  |
| Sedona, Arizona |  |
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| **Oral** |  |
| Occurrence of fibroadenomas in postmenopausal women referred for breast biopsy | 04/1992 |
| 40th Annual Meeting of the Association of University Radiologists |  |
| Chicago, Illinois |  |
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| 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 |  |
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| 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 |  |
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| Fatal cerebral coccidioides abscesses in an immunocompetent patient | 10/1999 |
| 31st Annual Meeting of the Western Neuroradiological Society |  |
| Kohala Coast, Hawaii |  |
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| 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 |  |
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| 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. |  |
| 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 |  |
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| Noncircumscribed superficial lipomas: Make the call | 03/2002 |
| 25th Annual Meeting of the Society of the Skeletal Radiology |  |
| Jacksonville, Florida |  |
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| Practical lessons in breast MRI | 04/2002 |
| Computer exhibit can be viewed online at http://bubbasoft.org/Breast\_MRI |  |
| 102nd Annual Meeting of the American Roentgen Ray Society |  |
| Atlanta, Georgia |  |
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| Musculoskeletal manifestations of coccidioidomycosis | 03/2003 |
| 26th Annual Meeting of the Society of Skeletal Radiology |  |
| San Diego, California |  |
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| Interventional procedures in musculoskeletal radiology: Interactive review and assessment | 05/2003 |
| 103rd Annual Meeting of the American Roentgen Ray Society |  |
| San Diego, California |  |
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| 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\_MRSilver Medal Award |  |
| 103rd Annual Meeting of the American Roentgen Ray Society |  |
| San Diego, California |  |
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| 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 |  |
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| 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 |  |
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| Delta reverse shoulder arthroplasty: Reinventing the wheel | 03/2005 |
| 28th Annual Meeting of the Society of Skeletal Radiology |  |
| Orlando, Florida |  |
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| 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 |  |
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| Radiographic and CT evaluation of knee replacement hardware: Review and self-assessment | 11/2005 |
| 91st Annual Meeting of the Radiological Society of North America |  |
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| Evaluation of pelvis bone marrow with MRI | 02/2006 |
| American Roentgen Ray Society: Current Concepts in Clinical Imaging |  |
| Phoenix, Arizona |  |
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| 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 |  |
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| 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 |  |
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| Radiology of small joint replacement hardware: Review and self-assessment | 05/2007 |
| 107th Annual Meeting of the American Roentgen Ray Society |  |
| Orlando, Florida |  |
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| Creating the future: the Mayo Clinic model of healthcare delivery & allied health education | 10/2007 |
| Bender C, Kunkowski K, Agerter D, Silber M, Perdikis G, Roberts C, Krom B, Robinson N, Sibley-Albold C, Cortese D. |  |
| Association of Schools of Allied Health Professions Annual Meeting |  |
| San Diego, California |  |
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| 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 |  |
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| Axial and long bone sarcoidosis: Additional imaging features. Warren HG, Bancroft LW, Kransdorf MJ, Peterson JJ, Roberts CC, Berquist TH. Exhibit. | 11/2007 |
| 93rd Annual Meeting of the Radiological Society of North America |  |
| Chicago, Illinois |  |
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| 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 |  |
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| 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 |  |
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| Quality measures in musculoskeletal radiology | 03/2008 |
| Society of Skeletal Radiology |  |
| Palm Springs, California |  |
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| The vascular groove sign: a new finding associated with osteoid osteomas. | 04/2009 |
| 109th Annual Meeting of the American Roentgen Ray Society |  |
| Boston, Massachusetts |  |
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| Malignant disease associated with Sotos syndrome | 09/2009 |
| Annual meeting of the International Skeletal Society |  |
| Washington, District of Columbia |  |
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| 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 | 04/2010 |
| 110th Annual Meeting of the American Roentgen Ray Society |  |
| San Diego, California |  |
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| Aseptic lymphocytic vasculitis-associated lesions (ALVAL): current concepts | 07/2010 |
| Society of Academic Bone Radiologists Annual Meeting |  |
| Santa Fe, New Mexico |  |
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| Isolated osseous involvement of Rosai-Dorfman disease | 07/2010 |
| Society of Academic Bone Radiologists Annual Meeting |  |
| Santa Fe, New Mexico |  |
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| National directions in quality improvement and patient safety | 07/2010 |
| Society of Academic Bone Radiologists Annual Meeting |  |
| Santa Fe, New Mexico |  |
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| Adverse reaction to metal debris: What to expect from the metal-on-metal total hip prosthesis recall | 05/2011 |
| 111th Annual Meeting of the American Roentgen Ray Society |  |
| Chicago, Illinois |  |
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| Avoiding preventable harm in the radiology department | 07/2011 |
| Society of Academic Bone Radiologists |  |
| Chicago, Illinois |  |
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| Musculoskeletal radiology quality metrics | 07/2011 |
| Society of Academic Bone Radiologists |  |
| Chicago, Illinois |  |
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| Recent changes in the American Joint Committee on Cancer (AJCC) sarcoma staging system | 07/2011 |
| Society of Academic Bone Radiologists |  |
| Chicago, Illinois |  |
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| Staging sarcomas: How do I do it? | 09/2011 |
| International Skeletal Society |  |
| San Diego, California |  |
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| Bone marrow signal on MRI - how to tell benign from neoplastic changes. | 03/2012 |
| Advances in Diagnostic Radiology |  |
| Orlando, Florida |  |
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| Measuring component rotation of total knee prostheses - easy technique and why it's important. | 03/2012 |
| Advances in Diagnostic Radiology |  |
| Orlando, Florida |  |
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| Intra-operative imaging and navigation | 07/2012 |
| Society of Academic Bone Radiologists |  |
| Jackson Hole, Wyoming |  |
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| Quality improvement project development and implementation: Practical tips and lessons learned | 07/2012 |
| Society of Academic Bone Radiologists |  |
| Jackson Hole, Wyoming |  |
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| Soft tissue ganglion cysts remote from joint or tendon sheath | 07/2012 |
| Society of Academic Bone Radiologists |  |
| Jackson Hole, Wyoming |  |
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| MR imaging characteristics of diffuse-type tenosynovial giant cell tumor (\*Tarbox DL, Roberts CC) | 03/2013 |
| Society of Skeletal Radiology Annual Meeting |  |
| San Antonio, Texas |  |
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| Quality improvement project pitfalls and potential topics (\*Zell SI, Roberts CC) | 03/2013 |
| Society of Skeletal Radiology Annual Meeting |  |
| San Antonio, Texas |  |
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| 8 Common Mistakes that Make Quality Improvement Projects Fail | 07/2013 |
| Society of Academic Bone Radiologists |  |
| Bar Harbor, Maine |  |
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| What the Patient Protection and Affordable Care Act (PPACA) Means for You | 07/2013 |
| Society of Academic Bone Radiologists |  |
| Bar Harbor, Maine |  |
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| Why your out-of-pocket maximum is not actually your out-of-pocket maximum | 07/2013 |
| Society of Academic Bone Radiologists |  |
| Bar Harbor, Maine |  |
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| Radiology Pearls: Finding Subtle Fractures | 11/2013 |
| Austere Environment Medicine |  |
| Phoenix, Arizona |  |
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| 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 |  |
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| Current Trends in Healthcare Contracting | 07/2015 |
| Society of Academic Bone Radiologists |  |
| Nashville, Tennessee |  |
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| Designing an Effective Faculty Development Program | 07/2015 |
| Society of Academic Bone Radiologists |  |
| Nashville, Tennessee |  |
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| Orthopedic 3D Printing from Imaging Studies | 07/2015 |
| Society of Academic Bone Radiologists |  |
| Nashville, Tennessee |  |
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| **Poster** |  |
| Management implications of hip fractures | 03/2000 |
| 11th Annual Meeting of the American Society of Emergency Radiology |  |
| Orlando, Florida |  |
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| Subtraction postprocessing in musculoskeletal MRI | 11/2002 |
| 88th Annual Meeting of the Radiological Society of North America |  |
| Chicago, Illinois |  |
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| 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 |  |
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| Improving inclusion of comparison studies in radiology interpretations | 11/2016 |
| American Medical Informatics Association (AMIA) Annual Meeting |  |
| Chicago, Illinois |  |
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| Assessing soft tissue masses with MRI: A primer | 03/2017 |
| 40th Annual Meeting of the Society of Skeletal Radiology |  |
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| **Regional** |  |
| **Invited** |  |
| Arthritis Overview | 07/2002 |
| St. Joseph's Hospital |  |
| Phoenix, Arizona |  |
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| Mammography Basics and Musculoskeletal Melange | 02/2003 |
| St. Joseph's Hospital |  |
| Phoenix, Arizona |  |
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| Musculoskeletal Board Review and Mammography Board Review | 05/2003 |
| St. Joseph's Hospital |  |
| Phoenix, Arizona |  |
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| Spinal Osteoid Osteomas: Radiology Perspective | 01/2004 |
| 3rd Annual Mayo Spine Center Multi-Disciplinary Update Conference |  |
| Phoenix, Arizona |  |
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| Musculoskeletal Board Review and Mammography Board Review | 03/2004 |
| St. Joseph's Hospital |  |
| Phoenix, Arizona |  |
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| Musculoskeletal Board Review, Part II and Mammography Board Review, Part II | 05/2004 |
| St. Joseph's Hospital |  |
| Phoenix, Arizona |  |
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| Legal, Employment & Insurance Challenges | 01/2014 |
| 2014 Living with & Overcoming My Cancer: A Mayo Clinic Symposium for Patients and their Loved Ones |  |
| Phoenix, Arizona |  |
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| **Oral** |  |
| Inadvertent injection of the cervical spinal cord during attempted facet block | 05/2002 |
| Academic Excellence Day |  |
| Phoenix, Arizona |  |
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| Noncircumscribed superficial lipomas: Make the call | 05/2002 |
| Academic Excellence Day |  |
| Phoenix, Arizona |  |
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| Radiology Outside Film Quality Improvement Project | 04/2013 |
| Mayo Clinic Quality Symposium |  |
| Scottsdale, Arizona |  |
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| Applied Quality Essentials on iTunes U | 01/2014 |
| 2nd Annual Education and Technology Forum |  |
| Scottsdale, Arizona |  |
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| **Poster** |  |
| Carcinoma of the stomach with hepatocyte differentiation (hepatoid adenocarcinoma) | 05/1997 |
| Academic Excellence Day |  |
| Phoenix, Arizona |  |
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| Transitional cell carcinoma obstructing a calyceal diverticulum. Unusual presentation as a peripheral cystic mass | 05/1997 |
| Academic Excellence Day |  |
| Phoenix, Arizona |  |
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| Subtraction postprocessing in musculoskeletal MRI | 05/2003 |
| Academic Excellence Day |  |
| Phoenix, Arizona |  |
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| A ’spontaneously shrinking’ breast mass: unusual presentation of invasive tubular carcinoma. Poster - First Prize, Fellows category. Mentor of Fellow first author. | 05/2006 |
| Academic Excellence Day |  |
| Phoenix, Arizona |  |
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| Tophaceous gout mimicking an edematous anconeus epitrochlearis. Poster - First Prize, Fellows category. Mentor of Fellow first author. | 05/2007 |
| Academic Excellence Day |  |
| Phoenix, Arizona |  |
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| **Visiting Professorship** |  |
| **Visiting Professorships** |  |
| Visiting ProfessorJohns Hopkins University School of MedicineBaltimore, Maryland | 10/2006 |
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| Visiting ProfessorThomas Jefferson University HospitalPhiladelphia, Pennsylvania | 10/2006 |
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| Visiting ProfessorUniversity of WashingtonSeattle, Washington | 04/2008 |
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| Visiting ProfessorJohns Hopkins University School of MedicineBaltimore, Maryland | 05/2008 |
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| Visiting ProfessorUniversity of Maryland School of MedicineBaltimore, Maryland | 05/2008 |
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| Visiting ProfessorThomas Jefferson University HospitalPhiladelphia, Pennsylvania | 06/2010 |
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| Visiting ProfessorRoyal National Orthopaedic HospitalLondon, United Kingdom | 06/2012 |
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| Visiting ProfessorUniversity of WashingtonSeattle, Washington | 03/2015 |
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| **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) and in Health Care Quality and Management, with recognized sub-specialty expertise in Patient Safety/Risk Management, by the American Board of Quality Assurance and Utilization Review Physicians (ABQAURP). She is a Certified Physician Executive by the Certifying Commission in Medical Management. She is a Physician's Review Network Certified Peer Reviewer and holds Health Information Technology Leadership Certification from the American Association for Physician Leadership (AAPL). Dr. Roberts serves on multiple committees at a national level, including the American College of Radiology (ACR) Appropriateness Criteria 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 (NQF) since 2010. Dr. Roberts is a 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 participates on committees in her 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 for over 15 years where she held significant quality and safety leadership positions. She was the Mayo Clinic Arizona Patient Safety Officer and Chair of the Patient Safety Subcommittee for 8 years. She was the Chair of Quality and Safety for the Mayo Clinic Arizona Radiology Department (3 years). She was the Mayo Clinic Arizona 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 72 abstracts and six of her 84 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 26 years. They have two children, Emma (21) and Austin (19), who are currently attending ASU. 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. |
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| **Research Grants Awarded** |

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| **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 |
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| Principal Investigator | A. Mammographic surveillance of breast cancer patients. B. Breast cancer diagnosis in women with augmentation implants. University of Arizona Health Sciences Center. Funded by NIH Student Research Grant | 06/1992 - 07/1992 |
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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 |
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| Principal Investigator | Magnetic resonance imaging of melanoma. Barrow Neurological Institute, Phoenix, AZ. Funded by NIH Student Research Grant | 12/1994 - 03/1995 |
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| **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 |
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| 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 |
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| 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 |
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| \* Indicates that the primary author was a mentee of this author. |

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