

Curriculum Vitae

Last Updated: 03/08/2023

PERSONAL DATA

Name: Megan K. Mills, M.D.

Citizenship: United States

EDUCATION

<u>Years</u>	<u>Degree</u>	<u>Institution (Area of Study)</u>
2015 - 2016	Fellow	University of Colorado (Musculoskeletal Radiology) Denver, CO
2014 - 2015	Chief Resident	University of Utah, School of Medicine (Diagnostic Radiology) Salt Lake City, UT
2013 - 2014	Junior Chief Resident	University of Utah, School of Medicine (Diagnostic Radiology) Salt Lake City, UT
2011 - 2013	Resident	University of Utah, School of Medicine (Diagnostic Radiology) Salt Lake City, UT
2010 - 2011	Transitional Internship	Riverside Methodist Hospital Columbus, OH
2006 - 2010	M.D.	University of Utah (Medicine) Salt Lake City, UT
2001 - 2006	B.S.	Utah State University (Business Administration) Logan, UT

BOARD CERTIFICATIONS

04/21/2011 - Present National Board of Medical Examiners, Certified

01/01/2016 - Present American Board of Radiology, Certified

CURRENT LICENSES/CERTIFICATIONS

2015 - Present State License (CO)

2012 - Present DEA Certificate

2011 - Present State License (UT)

UNIVERSITY OF UTAH ACADEMIC HISTORY

Radiology and Imaging Sciences, 07/18/2016 - Present

07/18/2016 Assistant Professor

Radiology and Imaging Sciences, 04/18/2007 - 06/30/2015

04/18/2007 - 06/30/2015 Housestaff

PROFESSIONAL EXPERIENCE

Full-Time Positions

2016 - Present Assistant Professor, Musculoskeletal Radiology, University of Utah, School of Medicine, Salt Lake City, UT

Part-Time Positions

2021 - Present Physician, Veterans Affairs, Salt Lake City, UT
2018 - 2019 Consultant, Thieme Publishing, New York, NY
2014 - 2016 Staff Radiologist, Uintah Basin Medical Center, Roosevelt, UT
2014 - 2015 Physician Coordinator, Project Reality, Salt Lake City, UT

Editorial Experience

2020 Guest Editor of Issue, Topics in MRI: An Open Access Journal - - Invited guest editor of MRI of the Wrist Issue (Volume 29 Issue 5). In charge of soliciting authors, determining content, and editing 5 articles for submission to the issue of the journal.

2016 Medical content editor for book entitled *Diagnostic Imaging: Musculoskeletal Non-Traumatic Disease: Second Edition*. Amirsys, Salt Lake City, UT, USA. Authored by BJ Manaster - - Responsible for ensuring accuracy of written content and figure annotation/captions created by authors.

2015 Medical content editor for Rad Primer Radiology Question Bank. Amirsys, Salt Lake City, UT, USA. Authored by BJ Manaster - - Responsible for ensuring accuracy of written content and figure annotation/captions created by authors.

2015 Medical content editor for book entitled *Diagnostic and Surgical Imaging Anatomy : Second Edition*. Amirsys, Salt Lake City, UT, USA. Authored by BJ Manaster - - Responsible for ensuring accuracy of written content and figure annotation/captions created by authors.

2014 Medical content editor for book entitled *Diagnostic Imaging: Emergency*. Second Edition. Amirsys, Salt Lake City, UT, USA. Authored by RB Jeffrey - - Responsible for ensuring accuracy of written content and figure annotation/captions created by authors.

Reviewer Experience

Reviewer for Foot and Ankle International
Reviewer for Journal of Magnetic Resonance Imaging
Reviewer for Topics in Magnetic Resonance Imaging

SITE VISITS

2019 - 2020 Liaison Committee on Medical Education (LCME) Junior Faculty Representative and Lead - - 1 of 15 junior faculty from the institution selected to represent the School of Medicine during the US Department of Education accrediting body site visit

SCHOLASTIC HONORS

2022 Faculty Presenter of the Year. University of Utah Department of Radiology and Imaging Sciences - - Annual award provided to the best faculty presenter for the academic year. Voted on by the residents of the radiology department.

2022 Best Educational Poster, *Beyond Schwannomas and Neurofibromas: A Review of Benign and Malignant Lesions that Arise in Association with Nerve*, Society of Skeletal Radiology, Coronado, CA - - Annual national society meeting award

- 2022 Association of University Radiologists "Radiology Management Program" - - Applied as the institutional representative and selected as 1 of 30 national radiologists to participate in this annual management and leadership training course.
- 2021 Honored Educator, Radiologic Society of North America, Chicago, IL - - Annual award to ~ 50 international radiologists for their contributions in furthering education by developing novel radiologic content.
- 2021 Award for Highest Rated Resident Noon Conference Series - Musculoskeletal Radiology Section, University of Utah Department of Radiology and Imaging Sciences - - Annual award provided to the section/division with the highest rated case conferences for the academic year. Based on aggregated evaluations from the residents of the radiology department.
- 2020 Certificate of Merit - Top 20% of 1300+ Educational Exhibits: "The Importance of Knowing Normal: Review of Pediatric Knee Developmental Variants and Current Literature Update Regarding Clinical Relevance". Radiological Society of North America, Chicago, IL
- 2020 Cum Laude Award - Top 5% of 1300+ Educational Exhibits: "Osseous and Soft Tissue Tumors in Blue and Pink: What the Musculoskeletal Radiologist Needs to Know about Histopathology". Radiological Society of North America, Chicago, IL.
- 2020 Award for Highest Rated Resident Noon Conference Series - Musculoskeletal Radiology Section, University of Utah Department of Radiology and Imaging Sciences - - Annual award provided to the section/division with the highest rated case conferences for the academic year. Based on aggregated evaluations from the residents of the radiology department.
- 2019 Careers in Medicine Mentoring Award Nominee, University of Utah School of Medicine, Salt Lake City, UT - - Nominated by medical students as "outstanding faculty member who is an exemplary teacher, advisor and mentor to medical students especially in regards to career planning and exploration"
- 2019 Honorable Mention Best Scientific Poster, *Peripheral Nerve Imaging: A review of anatomy, imaging techniques, and selected pathologies*. Society of Skeletal Radiology. Scottsdale, AZ. - - Annual national society/subspecialty meeting award.
- 2018 Best student poster presentation, University of Utah Department of Imaging Sciences Utah Center for Advanced Imaging Research (UCAIR) Symposium Salt lake City, UT - - Award at annual departmental research symposium.
- 2018 Best faculty oral presentation, University of Utah Department of Imaging Sciences Utah Center for Advanced Imaging Research (UCAIR) Symposium, Salt Lake City, UT - - Award at annual departmental research symposium.
- 2018 Wellness Innovation Award, University of Utah Radiology and Imaging Sciences, Salt Lake City, UT - - \$5,000 award from department to faculty member with innovative initiative to improve wellness within the department. Selected as 1 of 2 departmental "Wellness champions". Resulted in evaluation of radiology critical results reporting which was presented at the institutional resiliency poster session.
- 2017 Cum Laude Award - Top 5% of 1300+ Educational Exhibits: "The Wild Mountain West: Rare Tumor and Tumor-Like Entities Presenting to a Quaternary Referral Oncologic Orthopedic Center with a Wide Catchment Area in the Past Year" Radiological Society of North America, Chicago, IL

2017	Cum Laude Award - Top 5% of 1300+ Educational Exhibits: "First Do No Harm: A Review of Don't Touch Iatrogenic and Normal Variant Pseudolesions in Musculoskeletal Imaging" Radiological Society of North America, Chicago, IL
2017	Association of University Radiologists: Academic Faculty Development Program Selected Attendee, Hollywood, FL -- Nominated and selected to attend the development program the goal of which is to "bring together promising junior radiology physician faculty members early in their academic careers for education and networking"
2017	American College of Radiology (ACR) Education Center Award, "Traumatic and Non-Traumatic Brachial Plexus Imaging: What the Practicing Radiologist needs to Know", Skeletal Society of Radiology, Santa Barbara, CA - - Annual national society meeting award
2017	University of Utah Grant Writing Course Program Selected Attendee, University of Utah, Salt Lake City, UT - - Applied to and was selected to attend the annual departmental course centered on developing grant writing skills.
2015	Roentgen Resident Research Award, Radiological Society of North America - - Departmental recipient of national award which "allows residency program directors and department chairs to recognize outstanding residents and fellows who've advanced radiologic research"
2006	Drew B. Meilstrup Scholarship, University of Utah School of Medicine, Salt Lake City, UT - - Medical student scholarship "A fund established in 1984 by Dr. and Mrs. Meilstrup to be awarded to deserving students who are U.S. citizens, have excelled academically and are in need of financial assistance"
2006 - 2007	Richard E. Hurley Scholarship, University of Utah School of Medicine, Salt Lake City, UT - - Medical school scholarship "An endowed scholarship fund established in 2004. Awards are made to deserving students who are in need of financial assistance and who have excelled academically"
2006	Cum Laude, Bachelor of Science, Utah State University, Logan, UT - - Undergraduate award for students "whose cumulative GPA ranks them in the next 4.5% of the graduating class of each college based on a five year average of the next top 4.5% of that college"
2001 - 2006	Utah State University Women's Soccer Scholarship, Academic All Conference Team - - Division I collegiate soccer scholarship is awarded to less than 3% of high school athletes. All-academic team conference award is provided to athletes who maintain a 3.0 cumulative grade point average.

ADMINISTRATIVE EXPERIENCE

Administrative Duties

2020 - 2021	Radiology Resident Preliminary Report Task Force, Department of Radiology and Imaging Sciences - - Quality Improvement project focused on categorizing, tracking, and analyzing discrepancies between resident preliminary and attending finalized reports. Creation of report discrepancy tool and dissemination of tool to stakeholders.
2018 - Present	Section Chief, Musculoskeletal Imaging, University of Utah Department of Radiology and Imaging Sciences - - oversee all musculoskeletal diagnostic and interventional radiology services provided at the institution as well as lead the other faculty members and trainees of the musculoskeletal imaging section.

2018	Member, Ultrasound Task Force, University of Utah Department of Radiology and Imaging Sciences - - Quality improvement project aimed to expand sonographer coverage to weekend and evening hours.
2018 - 2019	Wellness Champion, University of Utah Department of Radiology and Imaging Sciences - - one of two selected faculty members tasked with developing and implementing a departmental wellness project. My project focused on critical results reporting and evaluating the barriers and potential solutions of communicating emergent radiologic findings to ordering/responsible providers. This project was presented at the institutional 'wellness walk'.
2018	Faculty advisor, Radiology Student Interest Group, University of Utah School of Medicine - - Generate interest in the field of radiology through outreach to medical students, organization of events, and collaboration with student leaders of the interest group.
2017 - Present	Previous co-chair, current member, Program Evaluation Committee, University of Utah Department of Radiology and Imaging Sciences - - Accreditation Council for Graduate Medical Education committee which is tasked with developing, implementing, and evaluating the educational activities of the residency program.
2017 - 2023	Previous co-chair, current member, Clinical Competency Committee, University of Utah Department of Radiology and Imaging Sciences - - Accreditation Council for Graduate Medical Education advisory committee which evaluates the progress of all of the residents in the radiology program.
2017 - 2023	Co-Director, Diagnostic Radiology Residency, University of Utah Department of Radiology and Imaging Sciences - - responsible for oversight and administration of the radiology residency program including developing an adequate educational experience, providing preparation for board certification, conducting the residency program in accordance with the accrediting body, ensuring adequacy of the institution/facilities/faculty to achieve educational goals.
2017 - 2023	Co-Director, Diagnostic Radiology Resident Selection Committee, University of Utah Department of Radiology and Imaging Sciences - - responsible for departmental activities related to radiology resident recruitment including oversight of the recruitment cycle, faculty training, application review, selection, interviewing, and ranking.
2017 - 2018	Musculoskeletal Radiology Resident Education Lead, University of Utah Department of Radiology and Imaging Sciences - - Responsible for resident orientation, delineation of rotation expectations, rotation curriculum development, resident evaluation/feedback, and section representation for department education initiatives.
2016 - 2017	Co-Director, 7060 Diagnostic Radiology Clerkship, University of Utah School of Medicine - - Aid in the development of rotation curriculum, student mentorship/advising, rotation examination and evaluation.

Professional Organization & Scientific Activities

2022 - 2025	Committee Member, Association of University Radiologists, Education Committee - - Committee's charge is to "encourage excellence in laboratory and clinical investigation, teaching and clinical practice, and radiology management in academic practice"
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2021 - 2024	Reviewer & Committee Member, Radiological Society of North America, Radiographics: Musculoskeletal Imaging Subspecialty Pannel - - Peer reviewer of Radiological Society of North America educational exhibits which 'are recommended to the Editor, who invites the authors to submit manuscripts based on their exhibits. The efforts of the editorial board members and panelists are critical to the success of <i>RadioGraphics</i> .'
2019 - 2022	Committee Member, Association of University Radiologists, Education Committee - - Committee's charge is to "encourage excellence in laboratory and clinical investigation, teaching and clinical practice, and radiology management in academic practice"
2018 - 2019	Steering Committee Member, Radiological Society of North America, National Cancer Institute's Medical Imaging Perception Lab at the Radiologic Society of North America - - charged with planning and implementing a perception research lab at the international meeting
2014	Presenter & Member, Association of American Medical Colleges, Project Medical Education - - Resident representative to share the medical education experience with members of the community.

Grant Review Committee/Study Section

2022	Member, Research Scholar Grant Study Section, Radiological Society of North America, Chicago, IL
2022	Member, Education Grant Study Section, Radiological Society of North America, Chicago, IL
2021	Member, Research and Education Grant Study Section, Radiological Society of North America, Chicago, IL
2019	Member, Research and Education Grant Study Section, Radiological Society of North America, Chicago, IL
2017	Member, Grant Review Committee, Artificial Intelligence/Machine Learning Faculty Seed Grant, Co-sponsored by Radiology & Imaging Sciences & Scientific Computing Imaging Institute, Salt Lake City, UT
2017	Member, Research Faculty Grant Study Session, Radiologic Society of North America, Chicago, IL

Symposium/Meeting Chair/Coordinator

2022	Moderator, Radiology Grand Rounds, Topic: Nuclear Medicine: Imaging of infection and inflammation, University of Utah
2020	Moderator, Case Competition, Utah Center for Advanced Imaging Research Symposium, University of Utah Department of Radiology and Imaging Sciences
2019	Co-Chair, Utah Center for Advanced Imaging Research, Imaging Elevated Symposium - - Responsible for planning, recruitment, organization, and implementation of the annual department of radiology and imaging sciences research symposium.
2018	Co-Chair, Utah Center for Advanced Imaging Research, Imaging Elevated Symposium - - Responsible for planning, recruitment, organization, and implementation of the annual department of radiology and imaging sciences research symposium.

2017 - Present Chair, Medical Imaging Perception Interest Group, University of Utah, Salt Lake City, UT - - Research working group with faculty members and trainees from the colleges of psychology, kinesiology, radiology, and computer sciences.

PROFESSIONAL COMMUNITY ACTIVITIES

2020 - Present Member, Radiology Residency Education Research Alliance, - - "Consortium of US radiology residency programs to carry out education-related research... A faculty cooperative now encompassing 36 US radiology residency programs, the aim of which is to conduct large scale multi-institutional investigations in resident education. [https://www.jacr.org/article/S1546-1440\(22\)00118-1/fulltext](https://www.jacr.org/article/S1546-1440(22)00118-1/fulltext)

2008 - 2010 Volunteer, Fourth Street Clinic

2008 - 2010 Volunteer, Maliheh Free Clinic/Semnani Foundation

2008 - 2010 Volunteer, South Valley Sanctuary, Women's Center

2007 - 2008 Volunteer, Junior League of Salt Lake City, Community Assistance and Resource Event Fair

UNIVERSITY COMMUNITY ACTIVITIES

University Level

2019 - Present Committee Member, Radiation Safety Committee, Human Use Subcommittee - - The committee "evaluates and approves or disapproves all proposed uses of ionizing radiation sources on or in human subjects for investigational or non-routine clinical procedures"

2019 - Present Committee Member, Radioactive Drug Research Committee, - - Voting member of committee that "evaluates and approves or disapproves of applications involving investigational or non-routine clinical uses of radioactive drugs"

University of Utah Health

2020 Participant, University of Utah Health, Utah Center for Clinical and Translational Science (CCTS) Speed Collaboration participant - Invited participants present and collaborate with 10 other institutional investigators to exchange and develop novel research ideas

2018 Member & Interviewer, University Orthopaedic Center, MRI/orthopedic scientist search/recruitment committee - - Review applications and conduct interviews of departmental candidates and provide suggestions/recommendations to the chair of the search committee.

2016 - Present Presenter & Consultant, University of Utah Hospitals and Clinics, Rheumatology Conference - - Provide didactic and case conference to members of the Rheumatology conference 1-2 times/year.

2016 - Present Consulting Physician, University Orthopaedic Center, Consulting Radiologist for the Utah Jazz, Salt Lake Real, Salt Lake Bees, and University of Utah Student Athletics - - Provide radiologic expertise in the care of professional and amateur athletic franchises in Utah.

2016 - Present Presenter & Consultant, Huntsman Cancer Hospital, Sarcoma Treatment Planning Conference - - Provide radiologic expertise at weekly multi-specialty conference 6-7 times/year.

College Level

2021	Mentor, School of Medicine, Annual Mentor Mixer (Fall) - - Departmental representative for the school of medicine mixer where students can interact with faculty and trainees of different subspecialties.
2021	Mentor, School of Medicine, Annual Mentor Mixer (Spring) - - Departmental representative for the school of medicine mixer where students can interact with faculty and trainees of different subspecialties.
2019	Department Representative, School of Medicine, - - Representative from the department of radiology invited to participate in 1 day school of medicine event with open discussion about the radiology specialty
2019	Small Group Leader, School of Medicine, WE WILL Finding Your Voice Workshop - Women in Leadership - - The women's leadership group of the school of medicine seeks "to promote women leaders in medicine through mentorship and professional development"
2018	Volunteer & Mentor, School of Medicine, Mentor Mixer - - "Networking event that provides medical students with an opportunity to learn about career paths in medicine"
2018	Mock Interviewer, School of Medicine, Radiology residency mock interviewer - - Participated in the mock interview of radiology-bound medical students
2017 - 2021	Mentor, School of Medicine, Careers in Medicine Retreat - Annual mentorship development program provided to faculty members of multiple departments who participate in medical student mentoring.
2014	Reviewer, School of Medicine, Clinical Learning Environment Review (CLER) of graduate medical education (GME) learning environment - - Provide feedback for the purpose of accreditation to the GME regarding the quality and safety of the radiology residency program.

Department Level

2022 - Present	Member, Radiology and Imaging Sciences, Alumni Board, Role is to support of the Department of Radiology and Imaging Sciences at Spencer Fox Eccles School of Medicine through commitment to its ongoing growth and success
2021 - Present	Committee Member, Radiology and Imaging Sciences, Grand Rounds Committee - - Contribute to the planning and implementation of a departmental lecture series with internal and external speakers who present a variety of radiology related topics.
2021	Committee Member, Radiology and Imaging Sciences, Radiology Administrative Director Search Committee - - Review applications and conduct interviews of radiology department administrative director candidates and provide suggestions/recommendations to the chair of the search committee.
2021	Committee Member, Radiology and Imaging Sciences, Interventional Radiology Section Chief Search Committee - - Review applications and conduct interviews of departmental interventional radiology section chief candidates and provide suggestions/recommendations to the chair of the search committee.
2020 - Present	Committee Member, Radiology and Imaging Sciences, Research Task Force - - Member of committee tasked with evaluating and advancing the research missions of the department of radiology and imaging sciences.

2020 - Present	Committee Member, Radiology and Imaging Sciences, Equity, Diversity, and Inclusion committee - - Member of committee tasked with evaluating and advancing equity, diversity, and inclusion related missions of the department of radiology and imaging sciences.
2020 - Present	Committee Member, Radiology and Imaging Sciences, Education Methods Taskforce - - Member of committee tasked with evaluating and advancing the educational methods of the department of radiology and imaging sciences.
2020 - 2021	Committee Member, Radiology and Imaging Sciences, Covid Safety Committee - - Member of committee tasked with developing departmental safety guidelines during the COVID-19 pandemic.
2018 - 2020	Champion, Radiology and Imaging Sciences, Illumio implementation - - Clinical champion tasked with testing and suggesting feedback for a new radiology PACS system prior to planned implementation
2018	Member & Interviewer, Radiology and Imaging Sciences, Acute Care Imaging Faculty Recruitment Committee - - Review applications and conduct interviews of departmental candidates and provide suggestions/recommendations to the chair of the search committee.
2018 - Present	Committee Member, Radiology and Imaging Sciences, Quality and safety committee - - Tasked with evaluating/reviewing safety events related to the department and creating solutions to system related events.
2018 - 2020	Member & Interviewer, Radiology and Imaging Sciences, Vice Chair of Clinical Operations Recruitment Committee - - Review applications and conduct interviews of departmental candidates and provide suggestions/recommendations to the chair of the search committee.
2017	Committee Member, Radiology, Departmental Faculty Review and Advancement Committee
2017 - Present	Appointed Committee Member, Radiology, Health Sciences Executive Operations Committee, University of Utah
2016 - 2022	Chair & Member, Radiology and Imaging Sciences, Musculoskeletal Imaging Faculty Recruitment Committee - - Recruit new faculty, review applications, conduct interviews, review committee feedback, provide job offers, and negotiate contracts of departmental candidates.
2012 - 2014	Resident Representative, Radiology, Advisory Committee for Retention, Promotion and Tenure
2009 - 2010	Student Representative, Radiology, Advisory Committee for Retention, Promotion and Tenure

Programs, Centers & Institutes

2008 - 2010	Volunteer, Huntsman Cancer Institute, Skin Cancer Screening Event
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CURRENT MEMBERSHIPS IN PROFESSIONAL SOCIETIES

American College of Radiology
American Roentgen Ray Society
Association of Program Directors in Radiology
Association of University Radiologists
Radiological Society of North America

FUNDING

Active Grants

- 09/01/22 - 09/01/27 Diffusion MRI Biomarkers of Peripheral Nerve Trauma
Principal Investigator(s): Mark A. Mahan
Direct Costs: \$355,889 Total Costs: \$757,210
Barrow Neurological Institute
Role: Co-Investigator
- 07/01/22 - 06/30/27 Quantitative Modeling to Evaluate Ankle Osteoarthritis Morphometrics Using Weightbearing Computed Tomography
Principal Investigator(s): Amy Lenz
Direct Costs: \$666,900 Total Costs: \$666,900
National Institute of Arthritis and Musculoskeletal and Skin Diseases
Role: Co-Investigator & Mentor
- 05/01/22 - 07/01/24 Quantitative Bone SPECT/CT and its Role in Osteoarthritis Imaging and Management: A Pilot Study on the Hand and Wrist
Principal Investigator(s): Maryam Soltanolkotabi
Direct Costs: \$150,000 Total Costs: \$150,000
RSNA Research & Education Foundation
Role: Co-Investigator & Mentor
- 05/15/21 - 05/14/23 RAD XP 2021
Real 3D X-ray imaging of lower and upper extremity abnormalities with comparison to CT
Principal Investigator(s): Frederic Noo
Direct Costs: \$92,550 Total Costs: \$141,138
Siemens Healthineers
Role: Co-Investigator
- 07/01/20 - 06/30/25 Morphological and Biomechanical Insights into the Pathophysiology of Femoroacetabular Impingement Syndrome
Principal Investigator(s): Andrew E. Anderson
Direct Costs: \$1,807,745 Total Costs: \$2,726,819
National Institute of Arthritis and Musculoskeletal and Skin Diseases
Role: Co-Investigator

Past Grants

- 01/01/22 - 01/01/23 The value of [F-18]NaF and [F-18]FDG PET-CT scans in the evaluation of developing new arthritis post ankle fusion
Principal Investigator(s): Tanyaluck Thientunyakit
Direct Costs: \$10,000 Total Costs: \$10,000
GE Medical Systems, Inc.
Role: Co-Investigator

07/01/21 - 06/30/22	Learning from Machine Learning: Evaluating how contextual interference impacts the learning of a radiology task in machines and radiologists Principal Investigator(s): Megan K. Mills Direct Costs: \$5,000 Total Costs: \$5,000 Association of Program Directors in Radiology Role: <u>Principal Investigator</u>
04/01/21 - 03/31/22	Novel Radiologic Assessments of Peripheral Nerve Sheath Tumors Principal Investigator(s): David H. Viskochil Direct Costs: \$29,468 Total Costs: \$29,468 Huntsman Cancer Institute Role: <u>Co-Investigator</u>
09/01/19 - 08/31/20	Quantifying the Pathophysiology of Femoroacetabular Impingement Syndrome. Principal Investigator(s): Andrew Edward Anderson (00275328) Direct Costs: \$220,000 Total Costs: \$220,000 National Institute of Arthritis and Musculoskeletal and Skin Diseases Role: <u>Co-Investigator</u>
07/01/18 - 06/30/19	Residents' Perceptual Skills Principal Investigator(s): Megan K. Mills Direct Costs: \$10,000 Total Costs: \$10,000 RSNA Research & Education Foundation Role: <u>Principal Investigator</u>

TEACHING RESPONSIBILITIES/ASSIGNMENTS

Courses Directed

2016 - 2017 Radiology 7060, Radiology Clerkship

Course Lectures

2014 Guest Lecturer, University of Utah, Medical student lecture: "Introduction to MSK Elbow and Ankle Abnormalities"

2011 - 2014 Guest Lecturer, University of Utah, Medical student lecture: "Introduction to ICU Radiology"

Mentoring/Advising

Faculty

2022 - Present Advisor/Mentor, Hank Schilling, University of Utah, Department of Radiology and Imaging Sciences

2021 - 2022 Advisor/Mentor, Krista Suarez-Weiss, Brigham and Women's Hospital, Abdominal Imaging and Intervention, AUR/APDR Radiology Career Advancement Lectureship Program

2021 - 2022 Advisor/Mentor, Nadine Mallak, Oregon Health Sciences University, Division of Nuclear Medicine, AUR/APDR Radiology Career Advancement Lectureship Program

2021 - Present Advisor/Mentor, Nicholas Barnthouse, University of Utah, Department of Radiology and Imaging Sciences

2019 - Present	Advisor/Mentor, Amanda Crawford, University of Utah, Department of Radiology and Imaging Sciences
2019 - Present	Advisor/Mentor, Prasanth Prasanna, University of Utah, Department of Radiology and Imaging Sciences
2019 - Present	Advisor/Mentor, Maryam Soltanolkotabi, University of Utah, Department of Radiology and Imaging Sciences
2018 - Present	Advisor/Mentor, Hailey Allen, University of Utah, Department of Radiology and Imaging Sciences
2018 - Present	Advisor/Mentor, Brian Chan, University of Utah, Department of Radiology and Imaging Sciences
2018 - 2022	Advisor/Mentor, Richard Leake, University of Utah, Department of Radiology and Imaging Sciences

Fellow

2021 - 2022	Supervisor, Mark Winter, University of Utah, Musculoskeletal Fellow
2021 - 2022	Supervisor, Nirmaan Dayal, University of Utah, Musculoskeletal Fellow
2021 - 2022	Supervisor, Vu Tran, University of Utah, Musculoskeletal Fellow
2020 - 2021	Supervisor, Seth Andrews, University of Utah, Musculoskeletal Fellow
2020 - 2021	Supervisor, Logan Beebe, University of Utah, Musculoskeletal Fellow
2020 - 2021	Supervisor, Nick Barnthouse, University of Utah, Musculoskeletal Fellow
2019 - 2020	Supervisor, Elizabeth Joiner, University of Utah, Musculoskeletal Fellow
2019 - 2020	Supervisor, Bryce Lowrey, University of Utah, Musculoskeletal Fellow
2019 - 2020	Supervisor, Chadwick Garner, University of Utah, Musculoskeletal Fellow
2018 - 2019	Supervisor, Ryan Joyce, University of Utah, Musculoskeletal Fellow
2018 - 2019	Supervisor, Mary Soltanolkotabi, University of Utah, Musculoskeletal Fellow
2018 - 2019	Supervisor, Amy Tsai, University of Utah, Musculoskeletal Fellow
2017 - 2018	Supervisor, Hailey Allen, University of Utah, Musculoskeletal Fellow
2017 - 2018	Supervisor, Richard Leake, University of Utah, Musculoskeletal Fellow
2017 - 2018	Supervisor, Patrick Kobes, University of Utah, Musculoskeletal Fellow
2016 - 2017	Supervisor, Matthew Tommack, University of Utah, Musculoskeletal Fellow
2016 - 2017	Supervisor, Bart Kimbrell, University of Utah, Musculoskeletal Fellow
2016 - 2017	Supervisor, Pardeep Athwall, University of Utah, Musculoskeletal Fellow

Resident

2021	Advisor/Mentor, Patrick Frias, University of Utah
2021 - Present	Advisor/Mentor, Sydney Asper, University of Utah
2020 - 2023	Advisor/Mentor, Andreas Christensen, University of Utah

2020 - 2022	Advisor/Mentor, Ragheed Al-Dulami, University of Utah
2019 - 2022	Advisor/Mentor, Adriene Eastaway, University of Utah
2019 - 2022	Advisor/Mentor, Stephen Winter, University of Utah
2019 - 2022	Advisor/Mentor, Nathan Kwok, University of Utah
2019 - 2022	Advisor/Mentor, Jill Fadal, University of Utah
2019 - 2021	Advisor/Mentor, Edward Callahan, University of Utah
2016 - 2020	Advisor/Mentor, Katie Totino, University of Utah
2016 - 2019	Advisor/Mentor, Elizabeth Joiner, University of Utah

Medical Student

2022	Advisor/Mentor, Austin Gamblin, University of Utah
2022 - Present	Advisor/Mentor, Jesse Steadman, University of Utah
2022	Advisor/Mentor, Logan Thomas, University of Utah
2022	Advisor/Mentor, Kurt Linderman, University of Utah
2022	Advisor/Mentor, Hunter Montgomery, University of Utah
2021 - 2022	Advisor/Mentor, Zack Hansen, University of Utah
2021 - 2022	Advisor/Mentor, Christina Necessary, University of Utah
2021	Advisor/Mentor, Max Hoang Tran, University of Utah
2021 - 2022	Advisor/Mentor, Tom Sant, University of Utah
2020 - 2021	Advisor/Mentor, Andrew Beckett, University of Utah
2019 - 2021	Advisor/Mentor, Samuel Zenger, University of Utah
2019 - 2020	Advisor/Mentor, Tanner Langston, University of Utah
2019 - 2020	Advisor/Mentor, Sam Roberts, University of Utah
2019 - 2020	Advisor/Mentor, Sydney Asper, University of Utah
2019 - 2020	Advisor/Mentor, Lauren Hubbard, University of Utah
2018 - 2020	Advisor/Mentor, Sam Zenger, University of Utah
2018	Advisor/Mentor, Rachelle Perkins, University of Utah
2018 - 2020	Advisor/Mentor, Nathan Krah, University of Utah
2018 - 2020	Advisor/Mentor, Ryan Hirschi, University of Utah
2018 - 2020	Advisor/Mentor, Kyle Roller, University of Utah
2018 - 2021	Advisor/Mentor, Chloe Cross, University of Utah
2018 - 2020	Advisor/Mentor, Randy Brown, University of Utah
2018	Advisor/Mentor, Anna Shvartsur, University of Utah
2017 - 2018	Advisor/Mentor, Travis Johnson, University of Utah
2017 - 2018	Advisor/Mentor, Theresa Pham, University of Utah, School of Medicine

2017 - 2018	Advisor/Mentor, James Kuhn, University of Utah, School of Medicine
2017 - 2018	Advisor/Mentor, Riki Aquino, University of Nevada, School of Medicine
2012 - 2013	Advisor/Mentor, Sam Braden, University of Utah, School of Medicine
2011 - 2012	Advisor/Mentor, Austin Trinh, University of Utah, School of Medicine
2010 - 2011	Advisor/Mentor, Asa Sharma, University of Utah, School of Medicine
2009 - 2010	Advisor/Mentor, Lindsay Burt, University of Utah, School of Medicine

Undergraduate

2022	Advisor/Mentor, Zach Etough, University of Utah
2021	Advisor/Mentor, Colt Crossley, University of Utah

Graduate Student Committees

2019 - 2020	Member, Lauren Williams, University of Utah
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Didactic Lectures

2022	Lecturer, University of Utah, Department of Radiology and Imaging Sciences. Resident core education lecture: "Hand and Finger MRI"
2022	Lecturer, University of Utah, Department of Radiology and Imaging Sciences. Resident education lecture. "Non-Interpretive Skills: RL Safety Reporting"
2021	Invited speaker, Imaging of Multiple Myeloma, Inflection Point. University of Utah, Salt Lake City, UT.
2021	Introduction to Radiology. University of Utah School of Medicine Radiology Student Interest Group, Salt Lake City, UT
2021	Lecturer, University of Utah, Department of Radiology and Imaging Sciences. Resident core education lecture: "Orthopedic implants"
2020	Lecturer, University of Utah, Department of Radiology and Imaging Sciences. Resident core education lecture: "Hand and Finger MRI"
2020	Lecturer, University of Utah, Department of Radiology and Imaging Sciences. Medical Student Radiology Clerkship 7060: "Introduction to Knee MRI"
2020	Lecturer, University of Utah, Department of Radiology and Imaging Sciences. Medical Student Radiology Clerkship 7060: "Introduction to Knee MRI"
2019	Introduction to Radiology. University of Utah School of Medicine Radiology Student Interest Group, Salt Lake City, UT
2018	Lecturer, University of Utah, Department of Radiology and Imaging Sciences. Resident core education lecture: "Hand Trauma"
2018	Introduction to Radiology. University of Utah School of Medicine Radiology Student Interest Group, Salt Lake City, UT
2018	Lecturer, University of Utah, Department of Radiology and Imaging Sciences. Resident core education lecture: "Metabolic bone disease"
2018	Lecturer, University of Utah, Department of Radiology and Imaging Sciences. Resident core education lecture: "Sclerosing dysplasias"

- 2017 Lecturer, University of Utah, Department of Radiology and Imaging Sciences.
Resident core education lecture: "Arthroplasties and Complications"
- 2016 Lecturer, University of Utah, Department of Radiology and Imaging Sciences.
Resident core education lecture: "Hand Trauma"
- 2016 Lecturer, University of Utah, Department of Radiology and Imaging Sciences.
Resident core education lecture: "Elbow Trauma"

Internal Teaching Experience

- 2022 Musculoskeletal, Mock Oral Examiner
- 2021 Musculoskeletal, Resident Case Conference Arthritis Bingo, University of Utah
- 2019 Musculoskeletal, Resident Case Conference Skeleton' University of Utah
- 2018 Musculoskeletal, Resident Case Conference Pictionary, University of Utah
- 2017 Musculoskeletal, Resident Case Conference Telestrads, University of Utah
- 2017 Musculoskeletal, Resident Case Conference Crossword, University of Utah
- 2017 Musculoskeletal, Resident Case Conference Board Review, University of Utah
- 2017 Musculoskeletal, Mock Oral Examiner
- 2016 Musculoskeletal, Resident Christmas Case Conference, University of Utah
- 2016 Musculoskeletal, Resident Case Conference Bingo, University of Utah
- 2016 Musculoskeletal, Resident Case Conference Jeopardy, University of Utah
- 2016 Musculoskeletal, Resident Case Conference Jeopardy, University of Colorado
- 2011 - 2015 Body, Musculoskeletal, Mammography, Ultrasound, Pediatrics, Nuclear Medicine, Interventional Radiology, Resident Case Conference, University of Utah

CE Courses Taught

- 2019 **Mills MK.** *Imaging Anatomy and Pathology of the Lumbar Spine.* University of Utah Sports Medicine Symposium, Park City, UT, USA. 2019
- 2019 **Mills MK.** *Imaging of the Brachial Plexus.* Utah Brain and Spine Imaging Conference, Salt Lake City, UT, USA. 2019.
- 2019 **Mills MK.** *Nerve Impingement Syndromes of the Elbow and Forearm.* Society of Skeletal Radiology, Scottsdale, AZ, USA. 2019
- 2020 **Mills MK.** *Imaging of the Brachial Plexus.* Utah Head and Neck Imaging Conference, Salt Lake City, UT, USA. 2020. *Canceled due to COVID-19 Pandemic
- 2020 **Mills MK.** *Nerve Impingement Syndromes and Patterns of Muscle Atrophy.* American Roentgen Ray Society, Chicago, IL, USA. 2020. *Converted to virtual meeting due to COVID-19 pandemic
- 2020 **Mills, MK.** *Traumatic Injuries of the Brachial Plexus.* Noon Conference Series, MRI Online, Cincinnati, OH. 2020
- 2021 **Mills, MK.** *Orthopedic Hardware Complications,* Resident Education Club, Society of Skeletal Radiology, East Dundee, IL
- 2021 **Mills MK.** *Nerve Impingement Syndromes and Patterns of Muscle Atrophy.* American Roentgen Ray Society, Virtual Meeting 2021
- 2021 **Mills, MK.** *Nerve Abnormalities of the Upper Extremity.* Mastery Series, MRI Online, Cincinnati, OH. 2021

- 2022 **Mills MK.** *Sports Injuries of the Hand and Wrist.* American Roentgen Ray Society, New Orleans, LA USA. 2022.
- 2022 **Mills MK.** *Musculoskeletal Imaging of Infection: Pearls and Pitfalls.* Radiologic Society of North America, Chicago, IL, USA. 2022.

PEER-REVIEWED JOURNAL ARTICLES

1. Ivy S, Rohovit T, Stefanucci J, Stokes D, **Mills M**, Drew T (2023). Visual expertise is more than meets the eye: an examination of holistic visual processing in radiologists and architects. *J Med Imaging (Bellingham)*, 10(1), 015501.
2. Komori S, Cross DJ, **Mills M**, Ouchi Y, Nishizawa S, Okada H, Norikane T, Thientunyakit T, Anzai Y, Minoshima S (2022). Deep-learning prediction of amyloid deposition from early-phase amyloid positron emission tomography imaging.(Epub ahead of print). *Ann Nucl Med*.
3. Soltanolkotabi M, Mallory C, Allen H, Chan BY, **Mills MK**, Leake RL, (2022). Postoperative Findings of Common Foot and Ankle Surgeries: An Imaging Review. *Diagnostics*, 12(5), 1090.
4. **Mills MK**, Allen H (2022). Knee Plical Pathology and Impingement Syndromes. *Magn Reson Imaging Clin N Am*, 30, 293-305.
5. Tomasevich KM, **Mills MK**, Allen H, Crawford AM, Mortensen AJ, Presson AP, Zhang C, Aoki SK (2021). Magnetic Resonance Arthrogram Improves Visualization of Hip Capsular Defects in Patients Undergoing Previous Hip Arthroscopy. *Arthrosc Sports Med Rehabil*, 4(2), e471-e478.
6. Chalmers PN, Christensen GV, Ishikawa H, Henninger HB, Kholmovski EG, **Mills M**, Tashjian RZ (2021). Can magnetic resonance imaging accurately and reliably measure humeral cortical thickness? *JSES Int*, 6(2), 297-304.
7. **Mills MK**, Leake RL, Crawford AM, Soltanolkotabi M, Hansford BG (2021). Concepts in Musculoskeletal Bone and Soft Tissue Biopsy. *Semin Musculoskelet Radiol*, 25(6), 711-724.
8. Maxfield CM, Montano-Campos JF, Chapman T, Dessler TS, Ho CP, Hull NC, Kelly HR, Kennedy TA, Koontz NA, Knippa EE, McLoud TC, Milburn J, **Mills MK**, Morgan DE, Morgan R, Peterson RB, Salastekar N, Thorpe MP, Zarour JG, Reed SD, Grimm LJ (2021). Factors Influential in the Selection of Radiology Residents in the Post-Step 1 World: A Discrete Choice Experiment. *J Am Coll Radiol*, 18, 1572-1580.
9. Williams LH, Carrigan AJ, **Mills M**, Auffermann WF, Rich AN, Drew T (2021). Characteristics of expert search behavior in volumetric medical image interpretation. *J Med Imaging (Bellingham)*, 8 (4), 041208.
10. Williams L, Carrigan A, Auffermann W, **Mills M**, Rich A, Elmore J, Drew T (2021). The invisible breast cancer: Experience does not protect against inattentional blindness to clinically relevant findings in radiology. *Psychon Bull Rev*, 28(2), 503-511.
11. Schlickewei C, Krähenbühl N, Dekeyser GJ, **Mills M**, Priemel M, Rammelt S, Frosch KH, Barg A (2021). [Unstable injuries of the deltoid ligament complex in ankle fractures : How to diagnose, how to treat?]. *Unfallchirurg*, 124(3), 190-199.
12. Li NP, Wingfield MA, **Mills MK**, Beckett BR, Hansford BG (2021). Percutaneous image-guided sternal biopsy: a cross-institutional retrospective review of diagnostic yield and safety in 50 cases. *Skeletal Radiol*, 50(3), 495-504.
13. Steadman J, Sripanich Y, Rungprai C, **Mills MK**, Saltzman CL, Barg A (2021). Comparative assessment of midfoot osteoarthritis diagnostic sensitivity using weightbearing computed tomography vs weightbearing plain radiography. *Eur J Radiol*, 134, 109419.
14. Fawver B, Thomas JL, Drew T, **Mills MK**, Auffermann WF, Lohse KR, Williams AM (2020). Seeing isn't necessarily believing: Misleading contextual information influences perceptual-cognitive bias in radiologists. *J Exp Psychol Appl*, 26(4), 579-592.

15. Leake RL, **Mills MK**, Allen H, Crawford AM, Kobes PH, Soltanolkotabi M (2020). MRI of the Wrist Ligaments. *Top Magn Reson Imaging*, 29(5), 209-220.
16. Sripanich Y, Steadman J, Krähenbühl N, Rungprai C, **Mills MK**, Saltzman CL, Barg A (2020). Asymmetric lambda sign of the second tarsometatarsal joint on axial weight-bearing cone-beam CT scans of the foot: preliminary investigation for diagnosis of subtle ligamentous Lisfranc injuries in a cadaveric model. *Skeletal Radiol*, 49(10), 1615-1621.
17. Chan BY, Crawford AM, Kobes PH, Allen H, Leake RL, Hanrahan CJ, **Mills MK** (2020). Septic Arthritis: An Evidence-Based Review of Diagnosis and Image-Guided Aspiration. *AJR Am J Roentgenol*, 215(3), 568-581.
18. Banerjee S, Drew T, **Mills MK**, Auffermann WF (2020). Perceptual training: learning versus attentional shift. *J Med Imaging (Bellingham)*, 7(2), 022407.
19. Meek RD, **Mills MK**, Hanrahan CJ, Beckett BR, Leake RL, Allen H, Williams DD, Tommack M, Schmahmann S, Hansford BG (2020). Pearls and Pitfalls for Soft-Tissue and Bone Biopsies: A Cross-Institutional Review. *Radiographics*, 40(1), 266-290.
20. Sripanich Y, Weinberg MW, Krähenbühl N, Rungprai C, **Mills MK**, Saltzman CL, Barg A (2020). Imaging in Lisfranc injury: a systematic literature review. *Skeletal Radiol*, 49(1), 31-53.
21. Weintraub MD, Hansford BG, Stilwill SE, Allen H, Leake RL, Hanrahan CJ, Chan BY, Soltanolkotabi M, Kobes P, **Mills MK** (2020). Avulsion Injuries of the Hand and Wrist. *Radiographics*, 40(1), 163-180.
22. Hansford BG, **Mills MK**, Hanrahan CJ, Yablon CM (2019). Pearls and pitfalls of fluoroscopic-guided foot and ankle injections: what the radiologist needs to know. *Skeletal Radiol*, 48(11), 1661-1674.
23. Krähenbühl N, Weinberg MW, Davidson NP, **Mills MK**, Hintermann B, Saltzman CL, Barg A (2019). Currently used imaging options cannot accurately predict subtalar joint instability. *Knee Surg Sports Traumatol Arthrosc*, 27(9), 2818-2830.
24. Hansford BG, **Mills MK**, Stilwill SE, McGow AK, Hanrahan CJ (2019). Naviculocuneiform and Second and Third Tarsometatarsal Articulations: Underappreciated Normal Anatomy and How It May Affect Fluoroscopy-Guided Injections. *AJR Am J Roentgenol*, 212(4), 874-882.
25. Stilwill SE, **Mills MK**, Hansford BG, Allen H, Mahan M, Moore KR, Hanrahan CJ (2019). Practical Approach and Review of Brachial Plexus Pathology With Operative Correlation: What the Radiologist Needs to Know. *Semin Roentgenol*, 54(2), 92-112.
26. Leake RL, **Mills MK**, Hanrahan CJ (2019). Spinal Marrow Imaging: Clues to Disease. *Radiol Clin North Am*, 57(2), 359-375.
27. Krähenbühl N, Weinberg M, **Mills MK**, Hintermann B, Barg A (2018). Assessment and treatment of chronic syndesmotic instability. *16(4)*, 264-274.
28. **Mills MK**, Putbrese B, Allen H, Stilwill SE (2018). Lymphangiomatosis: a rare entity presenting with involvement of the sacral plexus. *Skeletal Radiol*, 47(9), 1293-1297.
29. Peckham ME, Hutchins TA, Sanders RK, Stilwill SE, **Mills MK**, et al (2018). Getting on your nerves: Spine numbering utilizing lumbosacral plexus anatomy. *Neurographics*, 8(3), 208-217.
30. Krähenbühl N, Weinberg MW, Davidson NP, **Mills MK**, Hintermann B, Saltzman CL, Barg A (2018). Imaging in syndesmotic injury: a systematic literature review. *Skeletal Radiol*, 47(5), 631-648.
31. Peckham ME, Hutchins TA, Stilwill SE, **Mills MK**, Morrissey BJ, Joiner EAR, Sanders RK, Stoddard GJ, Shah LM (2017). Localizing the L5 Vertebra Using Nerve Morphology on MRI: An Accurate and Reliable Technique. *AJNR Am J Neuroradiol*, 38(10), 2008-2014.
32. Koontz NA, Wiggins RH 3rd, **Mills MK**, et al (2017). Less Is More: Efficacy of Rapid 3D-T2

SPACE in ED Patients with Acute Atypical Low Back Pain. *Acad Radiol*.

33. **Mills MK**, Strickland CD, Jesse MK, Lowry PA, Mei-Dan O, Flug JA (2016). Postoperative Imaging in the Setting of Hip Preservation Surgery. *Radiographics*, 36(6), 1746-1758.
34. **Mills MK**, Shah LM (2015). Imaging of the perivertebral space. *Radiol Clin North Am*, 53(1), 163-80.
35. **Mills M**, Winter TC, Kennedy AM, Woodward PJ (2014). Determination of fetal lung maturity using magnetic resonance imaging signal intensity measurements. *Ultrasound Q*, 30(1), 61-7.
36. **Mills MK**, Faraklas I, Davis C, Stoddard GJ, Saffle J (2010). Outcomes from treatment of necrotizing soft-tissue infections: results from the National Surgical Quality Improvement Program database. *Am J Surg*, 200(6), 790-6; discussion 796-7.
37. Kennedy A, **Mills MK**, Esplin S (2010). Bladder Varices: Source of confusion for placenta accreta spectrum. *Ultrasound Obstet Gynecol*, 36.
38. Pearson EG, Rollins MD, Vogler SA, **Mills MK**, Lehman EL, Jacques E, Barnhart DC, Scaife ER, Meyers RL (2010). Decompressive laparotomy for abdominal compartment syndrome in children: before it is too late. *J Pediatr Surg*, 45(6), 1324-9.
39. Bates C, Bishoff J, Cano S, **Mills MK**, Stoddard G, Oberg N, McFadden M (2010). Are We Contributing to Prescription Drug Abuse? A Look at Post-Operative Pain Medication Delivery, Consumption, and Disposal in Urologic Practice . *J Urol*, 183(4s), e197-e198.

REVIEW ARTICLES

1. Aru MG, Davis JL, Stacy GS, **Mills MK**, Yablon CM, Hanrahan CJ, McCallum R, Nomura EC, Hansford BG (2023). Beyond schwannomas and neurofibromas: a radiological and histopathological review of lesser-known benign lesions that arise in association with peripheral nerves. [Review]. *Skeletal Radiol*, 52, (4), 649-669.
2. **Mills MK**, Allen H (2022). Knee Plial Pathology and Impingement Syndromes. [Review]. *Magn Reson Imaging Clin N Am*, 30, (2), 293-305.
3. Soltanolkotabi M, Mallory C, Allen H, Chan BY, **Mills MK**, Leake RL (2022). Postoperative Findings of Common Foot and Ankle Surgeries: An Imaging Review. [Review]. *Diagnostics (Basel)*, 12, (5).

BOOK CHAPTERS

1. **Mills MK** (2013). Glomus Tympanicum Paraganglioma. In *Specialty Imaging: Temporal Bone*. Salt Lake City: Amirsys.
2. **Mills MK** (2012). Glomus Tympanicum Paraganglioma. In *Diagnostic Imaging: Head and Neck. Second Edition*. Salt Lake City: Amirsys.
3. **Mills MK** (2012). Orbital Cavernous Hemangioma. In *Diagnostic Imaging: Head and Neck. Second Edition*. Salt Lake City: Amirsys.

ADDITIONAL PUBLICATIONS

Case Reports

1. Smith T, **Mills MK** (2020). Cruciate Ligament Cyst..
2. Johnson TZ, Annis T, Kennedy A, Kobes P, **Mills M** (2019). Intramuscular Placement of Birth Control Device: A Multimodality Case and Review. *Cureus*, 11(1), e3835.

Letters

1. Weintraub M, Stilwill SE, Allen H, Leake R, Hanrahan C, Chan BY, Soltanolkotabi M, Kobes P, Hansford B, **Mills MK** (2020). [Cone-beam CT for Diagnosis of Avulsion Injuries of the Hand and Wrist respond](#) [Letter to the editor]. *Radiographics*, 40(4), 1198-1198.

Others

1. Allen H, Weintraub MD, Hansford BG, Stilwill SE, Leake RL, Hanrahan CJ, Chan BY, Soltanolkotabi M, Kobes PH, **Mills MK** (2019). CT Wrist/Hand - Avulsion Fracture. *This is a nationally available report template solicited by the Radiological Society of North America, archived on their website as a promoted report template for CT wrist/hand examinations.* RSNA RadReport Template Library. ..
2. Allen H, Weintraub MD, Hansford BG, Stilwill SE, Leake RL, Hanrahan CJ, Chan BY, Soltanolkotabi M, Kobes PH, **Mills MK** (2019). X-Ray Wrist/Hand - Avulsion Fracture. *This is a nationally available report template solicited by the Radiological Society of North America, archived on their website as a promoted report template for radiographic wrist/hand examinations.* RSNA RadReport Template Library..
3. Coffey D, Corbett P, Holleran RS, Picanzo JL, Wall J, Wolfe AC, (2019). Contributor. Human-Patient Simulation for Transport Environments. Aurora, CO: Air & Surface Transport Nurses Association.

PENDING PUBLICATIONS

Case Reports

1. Roller K, Allen H, **Mills MK** (In Press). Fat Necrosis in the Hand. *Case in Point*.
2. Miro P, Crawford A, **Mills MK** (In Press). Pulley Injuries. *Case in Point*.

POSTER PRESENTATIONS

- | | |
|------|---|
| 2023 | Orthopedic Research Society. Peritalar Compensation In Patients With Varus Ankle Osteoarthritis: A Morphologic Assessment. Zachary J. Eatough; Rich J. Lisonbee; Nicola Krähenbühl; Megan K. Mills; Charles L. Saltzman; Amy L. Lenz |
| 2021 | Barnthouse N, Chan B, Mills MK , Leake R, Khoshpouri P, Chalian M, Soltanolkotabi M. <i>Imaging in Glenohumeral Instability</i> . Electronic poster session presented at American Roentgen Ray Society, Virtual Meeting 2021. |
| 2018 | Mills MK , Jones T, Wiggins RW, Conkey T, et. al. <i>Improving Critical Test Result Management in Radiology</i> . Poster session presented at Resilience Poster Session, Salt Lake City, UT. |
| 2018 | Quigley E, Mills MK , Jones T, Wiggins RW. <i>Field test of 'zero gravity' PACS workstations, ergonomic workstations, with virtual desktops to improve ergonomics, reduce radiologist fatigue and prevent burnout</i> . Poster session presented at Resilience Poster Session, Salt Lake City. |
| 2018 | Annis T, Johnson T, Kobes P, Kennedy A, Mills MK . <i>Intramuscular placement of birth control device: A multimodality case and review</i> . Poster session presented at UCAIR symposium, Salt Lake City, UT. |
| 2018 | Roller K, Mills MK , Hanrahan C, Allen H. <i>Fat Necrosis: An Interesting Tumor Mimic Presenting in a Lumberjack</i> . Poster session presented at UCAIR Symposium, Salt Lake City, UT. |
| 2018 | Krah NM, Allen H, Hanrahan C, Mills MK . <i>Dysplasia epiphysealis hemimelica in the ankle: A multimodality case and review of Trevor-Fairbank disease</i> . Poster session presented at UCAIR Symposium, Salt Lake City, UT. |

- 2017 **Mills MK**, Joiner E, Hansford BG, et al. *Hips Don't Lie: Reviewing the Underappreciated Association Between Femoroacetabular Impingement and Osteitis Pubis*. Poster session presented at UCAIR Research Symposium, Salt Lake City, UT.
- 2017 Peckham M, Hutchins T, Sanders RK, Stilwill S, **Mills MK**, Stoddard G, Lubdha S. *Lumbar Spine Numbering: Getting on your nerves?* Poster session presented at ASSR 2017, San Diego CA. Poster session presented at American Society of Spine Radiology, San Diego, CA.

ORAL PRESENTATIONS

Meeting Presentations

International

- 2021 Aru M, Davis J, **Mills MK**, Stacy G, Seasor T, Nomura E, McCallum R, Hansford B. Beyond Schwannomas and Neurofibromas: A Review of Benign and Malignant Lesions Associated with the Nerves. Radiologic Society of North America. Chicago, IL.
- 2021 Williams, L., Carrigan, A., Auffeman, W., **Mills, MK.**, Rich. A., & Drew, T. *Inattentional blindness to clinically relevant findings*. Paper presented at the presented at the 71st Royal Australian and New Zealand College of Radiologists ASM, September, 2021, Melbourne, Australia.
- 2021 Hansford B, **Mills MK**, et al. *Cuboid-Navicular Coalition: Cross-institutional study of a rarely reported entity including magnetic resonance imaging, associated pathology, clinical presentation, and treatment*. Society of Skeletal Radiology Virtual Meeting 2021.
- 2021 Hansford B, **Mills MK**, et al. *Percutaneous Image-Guided Sternal Biopsy: A cross-institutional retrospective review of diagnostic yield and safety in 50 cases*. Oral Presentation at the Society of Skeletal Radiology, Virtual meeting 2021.
- 2020 Chan B, Crawford A, **Mills MK**, Allen H, Ward M, Eastaway A. *Osseous and Soft Tissue Tumors in Blue and Pink: What the Musculoskeletal Radiologist Needs to Know about Histopathology*. Radiologic Society of North America. Chicago, IL.
- 2020 Kobes P, Chan B, **Mills MK**, Allen H. *The Importance of Knowing Normal: Review of Pediatric Knee Developmental Variants and Current Literature Update Regarding Clinical Relevance*. Radiologic Society of North America. Chicago, IL.
- 2020 Banerjee S, **Mills MK**, Drew T, Aufferman W. *RadSimP: An educational radiology simulator for human factors based perceptual radiology education*. Annual Meeting of the Society for Imaging Informatics in Medicine (SIIM). Austin, Tx.
- 2019 Komori S, Cross D, **Mills MK**, Norikane T, Thientunyakit T, Ouchi Y, Okada H, Minoshima S. *Image-Based Deep-Learning Prediction of Amyloid Deposition Patterns using Early Phase Imaging of Amyloid PET*. RSNA. Chicago, IL.
- 2019 Thomas J, Fawver B, **Mills MK**, Auffermann W, Drew T, Williams AM. *Visual search behavior reveals differences in diagnostic accuracy based on experience*. Medical Image Perception Society. Salt Lake City, UT.
- 2019 Banerjee S, **Mills MK**, Drew T, Auffermann WF. *Perceptual Training – Learning versus Attentional Shift*. Medical Image Perception Society. Salt Lake City, UT.

- 2019 Banerjee S, **Mills MK**, Drew T, Auffermann WF. RadSimP - A Custom Software Solution for Perceptual Training Compared with Current Perceptual Software. Medical Image Perception Society. Salt Lake City, UT.
- 2019 Williams LH, Carrigan A, Auffermann W, **Mills MK**, Rich AN, Drew T. The Invisible Breast Cancer: Inattentional Blindness in Response to Medically-Relevant Stimuli in Radiologists. Medical Image Perception Society. Salt Lake City, UT
- 2019 Williams LH, Carrigan A, Auffermann W, **Mills MK**, Rich A, Drew T. *What are the characteristics of expert search behavior in volumetric medical images*. Object Perception, Attention and Memory Conference, Montreal, QC.
- 2019 Williams L, Carrigan A, Rich A, **Mills MK**, Aufferman W, Drew T. The Invisible Breast Cancer: Inattentional Blindness in Response to the Medically-Relevant Stimuli in Radiologists. Australasian Diagnostic Error in Medicine Conference, Melbourne, Australia.
- 2019 Williams L, Carrigan A, Aufferman W, Rich A, **Mills MK**, Drew T. Inattentional blindness to medically-relevant stimuli in radiologists. 46th Annual Conference of the Australasian Society for Experimental Psychology, Wellington, New Zealand.
- 2018 Leake R, Braden S, **Mills MK**, Allen H, Kobes P, Hanrahan C. Midfoot Pain: An "Overarching" Case-Based MR Imaging Review. RSNA, Chicago, IL
- 2018 Soltanolkotabi , Hansford BG, Stilwill SE, Stacy GS, Kobes P, Allen HA, Hanrahan CJ, **Mills MK**. Imaging of the Rotator Cuff for Massive Rotator Cuff Tears. RSNA, Chicago IL
- 2018 Weintraub MD, Hansford BG, Stilwill SE, Hanrahan CJ, Leake R, **Mills MK**. Avulsion Injuries of the Hand and Wrist: A Review of Frequently Encountered and Uncommon Radiologic Diagnoses. RSNA, Chicago, IL.
- 2018 Meek R, Beckett B, Wolf B, Schmahmann S, **Mills MK**, Hanrahan C, Hansford BG, Pearls and Pitfalls for Soft Tissue and Bone Biopsies from Quaternary Orthopedic Oncology Referral Centers: A Cross-Institutional Review. RSNA, Chicago, IL.
- 2017 Hanrahan CJ, Allen H, Kobes P, Hansford BG, **Mills MK**, et al. First Do No Harm: A Review of Don't Touch Iatrogenic and Normal Variant Pseudolesions in Musculoskeletal Imaging. RSNA, Chicago IL
- 2017 Smith Z, **Mills MK**, Hanrahan CJ, et al. The Wild Mountain West: Rare Tumor and Tumor-Like Entities Presenting to a Quaternary Referral Oncologic Orthopedic Center with a Wide Catchment Area in the Past Year. RSNA, Chicago, IL
- 2017 Joiner ER, Hansford BG, Hanrahan CJ, Stilwill SE, McGow AK, **Mills MK**. Harping on Hip Morphology: Recognizing the Underappreciated Association Between Femoroacetabular Impingement and Osteitis Pubis. RSNA, Chicago, IL
- 2015 **Mills MK**, Branting NC, Flug JA, et al. Postoperative Imaging in Hip Preservation Surgery. RSNA, Chicago, IL
- 2012 **Mills MK**, Winter T, Woodward P, et al. Determination of Fetal Lung Maturity Using MRI Signal Intensity Ratios. RSNA, Chicago, IL

National

- 2021 Pullen W, Carreira D, Wong I, Lynch S, Byrd T, Aoki S, Mather C, Ayeni O, **Mills MK**, Wong T, Riley G, Lutz A, Said N, and Safran M. *Does Specialty Impact the Inter-rater Reliability of the Tonnis Grading System?* American Orthopedic Society for Sports Medicine
- 2021 Al-Dulami R, Calisi N, Curtis M, Braden S, **Mills MK**, Winkler N. *Effects of the COVID-19 pandemic on mental health and training of diagnostic radiology residents: Results of a national survey.* Association of University Radiologists.
- 2020 Sripanich Y, Weinberg M, Krähenbühl N, Rungprai C, **Mills MK**, Saltzman C, Barg A. *Imaging in Lisfranc injury: a systematic literature review.* American Orthopedic Foot and Ankle Society. Orlando, FL.
- 2019 Joyce R, Kobes P, Leake R, **Mills MK**, Stilwill S, Allen H. Peripheral Nerve Imaging: A review of anatomy, imaging techniques, and selected pathologies. Society of Skeletal Radiology. Scottsdale, AZ. (Honorable Mention Best Scientific Poster)
- 2018 Kobes P, Hanrahan CJ, **Mills MK**, et al. The Sternoclavicular Joint: The Forgotten Joint of the Shoulder Girdle. ARRS, Washington, D.C
- 2018 Allen H, **Mills MK**, Peckham M, Shah L, Sanders R, Stilwill SE. MRI of the Lumbosacral Plexus: What the Practicing Radiologists Wants to Know. Society of Skeletal Radiology. Austin, TX.
- 2017 Stilwill SE, Sanders RK, Mahan ME, **Mills MK**. The Lumbosacral Plexus. University of Utah Neuroradiology Brain and Spine Imaging Conference, Salt Lake City, UT
- 2017 Athwal P, **Mills MK**, Mahan M, et al. Traumatic and Non-Traumatic Brachial Plexus Imaging: What the practicing radiologist needs to know. SSR, Santa Barbara, CA.
- 2017 Peckham M, Hutchins T, Sanders RK, Stilwill S, **Mills M**, Stoddard G, Shah L. Lumbar Spine Numbering: Getting on your nerves? ASNR 2017, Long Beach, CA.
- 2016 **Mills MK**, Jesse MK, Strickland C, et al. MRI appearance of the acetabular labrum after primary labral repair. SSR, New Orleans, LA.
- 2015 **Mills MK**, Shah LM, Wiggins R. The sneaky sarcoma that wasn't. American Society of Spine Radiology, Las Vegas, NV
- 2015 **Mills MK**, Shah LM, Daily A. Case of traumatic vertebral artery occlusion and revascularization after facet reduction. American Society of Spine Radiology, Las Vegas, NV
- 2015 Koontz NA, Pierson NS, Ledbetter LN, **Mills MK**, et al. The needle and the damage done - Does approach predispose to inadvertent penetration during lumbar inter laminal epidural steroid injection? American Society of Spine Radiology, Las Vegas, NV

Local/Regional

- 2018 **Mills MK**, Drew T, Auffermann W, Minoshima S. Perceptual Imaging: The Cost of Interruption. UCAIR Symposium, Salt Lake City, UT
- 2018 Hirschi R, Hansford B, Hanrahan C, Hu N, Wang C, **Mills MK**. Communication Between the Naviculocuneiform and Second/Third Tarsometatarsal Articulations: Underappreciated Normal Anatomy and the Impact on Fluoroscopic Guided Injections. UCAIR Symposium, Salt Lake City, UT

2010 **Mills MK**, Saffle JR. Outcomes of necrotizing soft tissue infections. Southwest Surgical Congress, Tucson, AZ

Grand Rounds Presentations

2018 Neumann J, Saltzman C, Mills M. Deltoid Ligament Injuries. University of Utah Department of Orthopedics, Salt Lake City, UT

OTHER SCHOLARLY ACTIVITIES

Quality & Value Improvement Projects

2020 Radiology Value Survey 2.0 - Revamping the survey to increase awareness and usage of the radiology report value survey. Tasks include rewriting survey questions, strategizing the roll out of the survey, advertising and educating clinicians about the survey, aiding in implementation, tracking metrics of survey.

2020 Clinical practice advancement with initiation of dual energy CT for detection of gout. Coordinated multi-departmental (MSK radiology, rheumatology, CT) collaboration to test and implement a dual energy CT protocol for clinical use in patients with gout.

2019 - 2020 Clinical practice advancement with re-initiation of CT-guided sarcoma biopsy service. Coordinated multi-departmental (MSK radiology, orthopedics, oncology, IR, CT) collaboration to initiate a CT-guided biopsy service line.

2019 - 2020 Clinical practice advancement with development of low-dose whole body CT for multiple myeloma patient population. Coordinated multi-departmental (MSK radiology, nuclear medicine, medical physics, hematology/oncology, CT) collaboration to develop, test, and implement a whole body CT protocol for clinical use in patients with multiple myeloma.

2019 - 2020 Clinical practice advancement with initiation of MR Arthrography service at Farmington Health Center. Coordinated multi-departmental (MSK radiology, orthopedics, sports medicine, MRI, FHC) collaboration to initiate a fluoroscopic guided arthrography service at Farmington Health Center.

2019 - 2020 Initiation of a monthly section based radiology/arthroscopy conference. During this conference, all arthroscopic surgical cases are reviewed for imaging interpretation concordance. The degree of concordance is discussed as a peer group and recorded. Any discrepancies are reviewed with the radiology group and orthopedic group (as needed) for the purpose of quality improvement. This process is also a means of peer evaluation, a requisite for ACR MRI accreditation. Transitioned the management of this conference to a more junior member of the section.