

CURRICULUM VITAE

NAME AND DEGREES Aaron Kyle Jones, Ph.D.

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CURRENT APPOINTMENTS

Sep 2023–Present Professor (Joint appointment)
Interventional Radiology
The University of Texas MD Anderson Cancer Center

Jul 2022–Present Deputy Program Director, Medical Physics Graduate Program
The University of Texas MD Anderson Cancer Center Graduate School of
Biomedical Sciences

Jun 2021–Present Professor
Imaging Physics
The University of Texas MD Anderson Cancer Center

May 2010–Present Adjunct Professor
The University of Texas M. D. Anderson Cancer Center School of Health
Professions (SHP) at Houston

2006–Present Associate Member
The University of Texas Graduate School of Biomedical Sciences (UT-GSBS) at
Houston

2006–Present Full Member
Imaging Physics
Medical Physics Graduate Program

LICENSES AND CERTIFICATIONS

Diagnostic Radiological Physics
Texas Medical Physicist License, FMP00010224

Jan 2017–Jan 2025 Texas Medical Board - Diagnostic Medical Physicist
Licensure

Oct 2015–Dec 2020 American Board of Imaging Informatics
Board Certification

Aug 2011–Aug 2013 Texas Board of Licensure for Professional Medical Physicists - Medical Nuclear
Physics
Licensure

Jul 2009–Feb 2017 Texas Board of Licensure for Professional Medical Physicists - Diagnostic
Radiologic Physics
Licensure

Jun 2009–Apr 2022 Mammography Quality Standards Act (MQSA) certified
Board Certification

Jun 2009–Present American Board of Radiology - Diagnostic Medical Physics

Board Certification

EDUCATION, EXPERIENCE, AND SERVICE

DEGREES OBTAINED

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| May 2006 | Ph.D., Medical Physics - Dissertation Title: Dose versus image quality in pediatric radiology: Studies using a tomographic newborn physical phantom with an incorporated dosimetry system
University of Florida; Gainesville, Florida |
| Dec 2003 | M.S., Medical Physics
University of Florida; Gainesville, Florida |
| Jun 2001 | BS, Physics (Magna Cum Laude)
Furman University; Greenville, South Carolina |

FACULTY ACADEMIC APPOINTMENTS

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| Sep 2023–Present | Professor
Interventional Radiology
The University of Texas MD Anderson Cancer Center |
| Jun 2021–Present | Professor
Imaging Physics
The University of Texas MD Anderson Cancer Center |
| 2015–Jun 2021 | Associate Professor
Imaging Physics
The University of Texas MD Anderson Cancer Center |
| May 2010–Present | Adjunct Professor
The University of Texas M. D. Anderson Cancer Center School of Health Professions (SHP) at Houston; Houston, TX |
| 2009–2015 | Assistant Professor
Imaging Physics
The University of Texas MD Anderson Cancer Center |
| 2006–2009 | Instructor
Imaging Physics
The University of Texas MD Anderson Cancer Center |
| 2006–Present | Associate Member
The University of Texas Graduate School of Biomedical Sciences (UT-GSBS) at Houston; Houston, TX |
| 2006–Present | Full Member
Imaging Physics
Medical Physics Graduate Program; Houston, TX |

OTHER PROFESSIONAL POSITIONS

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|-------------------|---|
| Aug 2024–Sep 2024 | Chair, Mid-cycle review committee for Dr. Brian Taylor
The University of Texas MD Anderson Cancer Center |
| Jun 2023–Jul 2023 | Chair, Mid-cycle review committee for Dr. Chris Walker
The University of Texas MD Anderson Cancer Center |
| Jan 2015–Jan 2022 | Chair, Medical Physics Graduate Program Curriculum Committee
The University of Texas Graduate School of Biomedical Sciences; Houston, TX |
| Jan 2014–Jul 2015 | Chair, Medical Physics Curriculum Review Committee
The University of Texas Graduate School of Biomedical Sciences; Houston, TX |

ADMINISTRATIVE LEADERSHIP POSITIONS

- Jul 2022–Present Deputy Program Director, Medical Physics Graduate Program
The University of Texas MD Anderson Cancer Center Graduate School of
Biomedical Sciences; Houston, TX
- Sep 2018–Feb 2020 Chief, ad interim, Section of Radiological Physics
Imaging Physics
The University of Texas MD Anderson Cancer Center

HONORS AND PRIZES

- 2026 Fellowship, American College of Radiology
American College of Radiology
- Nov 19, 2025–Present Member of the Kenneth I. Shine, M.D., Academy of Health Science Education
The University of Texas System
- 2025 John P. McGovern Award for Outstanding Teaching
The University of Texas MD Anderson Cancer Center-UT Health Houston
Graduate School of Biomedical Sciences
Every year GSBS students nominate and vote for the winner of the John P.
McGovern Award for Outstanding Teaching. The award recognizes excellence in
teaching based on the following criteria:
Knowledge of the subject
Interest in/enthusiasm for teaching
Interest in and understanding of students
Responsiveness to student questions and encouragement of independent
thinking
Accessibility to students
- 2025–Present Reappointment with Commendation
The University of Texas MD Anderson Cancer Center/UT Health Houston
Graduate School of Biomedical Sciences
- 2025 Diagnostic Imaging Outstanding Educator Award, Intramural
The University of Texas MD Anderson Cancer Center, Division of Diagnostic
Imaging
- 2024 2023 JVIR People's Choice Award
Society of Interventional Radiology
- 2024 Fellowship, Society of Interventional Radiology
Society of Interventional Radiology
- 2023 Diagnostic Imaging Outstanding Clinician, Non-Patient Care
The University of Texas MD Anderson Cancer Center, Division of Diagnostic
Imaging
- 2021–2022 Graduate School of Biomedical Sciences Faculty Recognition Award
The University of Texas Graduate School of Biomedical Sciences
- 2019 Fellowship, American Association of Physicists in Medicine
American Association of Physicists in Medicine
- 2018 S. Julian Gibbs Oration
American Academy of Oral and Maxillofacial Radiology
- 2016 Best Poster Award
World Congress of Interventional Oncology (WCIO)
- 2015 Board of Directors Award for Meritorious Service
Conference of Radiation Control Program Directors
- 2013 Nominated for University of Texas Regents' Outstanding Teaching Award

2013	Farrington Daniels Award - Best Paper on Radiation Dosimetry in Medical Physics American Association of Physicists in Medicine Award for best paper on Radiation Dosimetry published in Medical Physics in 2013
2005	American College of Medical Physics (ACMP) Graduate Student Award
2005	American Nuclear Society (ANS) Graduate Scholarship, American Nuclear Society
2003	J. Newell Stannard Fellowship, Health Physics Society
2003	Eminent Young Scientist of the Year, International Research Promotion Council
2002–2005	Outstanding Presenter at Florida chapter of the American Association of Physicists in Medicine (FL-AAPM) meeting
1999	South Carolina Independent Colleges and Universities Research Grant

TASK FORCE AND GUIDELINE DEVELOPMENT LEADERSHIP

Extramural, 2016–2018	Best Practice Guidelines for CT-Guided Interventional Procedures Chair Society of Interventional Radiology; Fairfax, VA
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COMMITTEE SERVICE

Intramural, 2024–Present	Member IMPACT Steering Committee The University of Texas MD Anderson Cancer Center
Intramural, 2022–Present	Member Program Directors Committee The University of Texas MD Anderson Cancer Center-UT Health Houston Graduate School of Biomedical Sciences
Sep 2020–Sep 2021	Chair, Institutional Committee The University of Texas Graduate School of Biomedical Sciences Curriculum Committee The University of Texas MD Anderson Cancer Center
Sep 2020–Present	Member, Institutional Committee UT-GSBS Medical Physics Program Steering Committee The University of Texas MD Anderson Cancer Center
Sep 2018–Sep 2021	Member, Institutional Committee The University of Texas Graduate School of Biomedical Sciences Curriculum Committee The University of Texas MD Anderson Cancer Center
Sep 2015–Apr 2023	Member, Institutional Committee CME Advisory Committee The University of Texas MD Anderson Cancer Center
Intramural, 2015–Present	Member Fluoroscopy Radiation Protocol Committee The University of Texas MD Anderson Cancer Center
Nov 2013–Nov 2019	Member, Institutional Committee UT-GSBS Medical Physics Program Steering Committee The University of Texas MD Anderson Cancer Center
Jun 2013–Jul 2014	Chair, Institutional Committee Ad Hoc Fluoroscopy Privileging Committee The University of Texas MD Anderson Cancer Center
May 2013–May 2015	Chair, Institutional Committee

Fluoroscopy Radiation Protocol Committee
The University of Texas MD Anderson Cancer Center

2009–Present Member, Institutional Committee
Radiation Safety Committee
The University of Texas MD Anderson Cancer Center

PROFESSIONAL SOCIETIES

Dec 2021–Present International Atomic Energy Agency (IAEA)
Vienna, Austria
Dec 2021–Present Member, Study on Tissue Reactions

Aug 2021–Present International Commission on Radiological Protection
Aug 2021–Present Member, ICRP TG113

Jan 2013–2019 Radiological Society of North America
Chicago, IL
Dec 2013–2019 Member: Education Exhibits Committee
Jan 2013–Dec 2013 Member: Technical exhibits committee

2012–Present American College of Radiology
Apr 2022–Present Chair, National Radiology Data Registry
Sep 2023–Present Member, ACR Blue Ribbon Panel on Fluoroscopy Safety
Jul 2022–Present Member, Commission on Medical Physics
Apr 2022–Apr 2026, Chair, Dose Index Registry Committee
Jan 2018–Apr 2022 Member, Dose Index Registry Committee
Feb 2012–Present Member
2012–Present Collaborative standard representative to the American College of Radiology (ACR)

Jan 2011–Apr 2013 American Board of Radiology
Jan 2011–Apr 2013 Member, Certifying Exam Physics Committee

2011–Present Society of Interventional Radiology
May 2012–May 2020 Member, Safety and Health Committee
2011–Present Member

2006–Present Southwest Chapter of the American Association of Physicists in Medicine
Jan 2018–Jan 2021 Board representative to AAPM
Jan 2014–Dec 2025, Continuing Education Committee
Jan 2013–Dec 2013 Past President
Jan 2012–Jan 2013 President
Jan 2011–Jan 2012 President-Elect
2006–Present Member

2001–Present American Association of Physicists in Medicine
Jul 2024–Apr 2026 Member, Admin Council
Jul 2020–Jul 2023 Member, Nominating Committee

Dec 2019–Dec 2021 Member, Ad Hoc Committee on External Communications and Social Media

Jul 2019–Dec 2022 Member, Working Group on Medical Physics Graduate Education Program Curriculum (WGRR44)

Jan 2019–Dec 2021 Member, Strategic Planning Committee

2019–2022 Member, TG 343: MPPG #12: Fluoroscopy Dose Management

Jan 2018–Dec 2020 Board of Directors - Southwest Chapter representative

Aug 2013–2017 Member: Task Group 238 - 3D C-arms with volumetric capability

May 2013–2016 Member: Ad Hoc Committee on Journal Publications

May 2013 Safety culture training: CRCPD

Sep 2012–2017 Co-chair: Task Group 232 - Clinical use of CR/DR exposure indices

Jan 2012–2017 Member: Task Group 223 - Dosimetry in tomosynthesis imaging

May 2011 CT Training - CRCPD

2010–2017 Member, Tomosynthesis Subcommittee

May 2009 Digital Radiography training - CRCPD

2009–2019 Liaison to Conference of Radiation Control Program Directors (CRCPD)

2008–2017 Member, Radiography and Fluoroscopy Subcommittee

2007–2010 Member, Task Group 171 - Tomosynthesis

2006–2015 Member, Task Group 150 - Acceptance testing of digital radiography equipment

2006–Dec 2012 Co-Chair, Task Group 151 - Quality control in digital radiography

2001–2006 Member, Florida Chapter

2001–Present Member

2001–2005 Florida Chapter of Health Physics Society
2001–2005 Member

2001–2006 Health Physics Society
2001–2006 Member

2000–2001 American Astronomical Society
2000–2001 Member

1999–2001 American Physical Society
1999–2001 Member

EDITORIAL ACTIVITIES

2017–Present Physics Editor
Journal of Vascular and Interventional Radiology

2010–Present Associate Editor
Medical Physics

PEER REVIEW ACTIVITIES

2022–Present	Reviewer Journal of Medical Imaging
2014	Abstract reviewer 2014 Southwest Chapter of the American Association of Physicists in Medicine Annual Meeting
2010–2011	Journal Reviewer Australasian Physical & Engineering Sciences in Medicine
2010–Present	Journal Reviewer Journal of Applied Clinical Medical Physics
2009–Present	Abstract Reviewer American Association of Physicists in Medicine Annual Meeting
2009–Present	Journal Reviewer Journal of Digital Imaging
2009–Present	Journal Reviewer Journal of Vascular and Interventional Radiology
2007–2013	Journal Reviewer Applied Radiation and Isotopes
2006–Present	Journal Reviewer Medical Physics

OTHER ACTIVITIES

MD Anderson Academy of Health Science Education
Kenneth I. Shine, M.D., Academy of Health Science Education
Faculty Leadership Academy - Cohort 16 (2016-2017)
Honorary Societies (Year of Induction):
1998 Pi Mu Epsilon
1998 Sigma Pi Sigma
1998 Phi Eta Sigma
2001 Phi Beta Kappa
2002 Alpha Nu Sigma
Completed Heart of Leadership Course during FY14.
OneConnect Epic implementation Super User for Division of Diagnostic Imaging
CPR Certified (Renewed 11/2025)

RESEARCH PROJECTS

GRANTS, CONTRACTS, AND SPONSORED RESEARCH AGREEMENTS

Active, May 01, 2024–Aug 31, 2025	Use of spatial computing technology in image-guided procedures Department of Interventional Radiology Co-Principal Investigator (Joshua Kuban and A. Kyle Jones PI) (\$63,000 incl. indirect costs; \$14,990/year)
Past, Sep 01, 2019–Aug 31, 2024	Anatomical Modeling to Improve the Precision of Image Guided Liver Ablation NIH/NCI, 5R01CA235564-05 Co-Investigator (Brock, Odisio PI) (\$ 1,189,333 incl. indirect costs; \$237,867/year)

	To accurately identify the tumor for ablation probe placement and assess intra-procedurally the minimal ablation margins, therefore increasing efficacy of PTA therapy, ultimately improving liver progression-free survival rates.
Past, Jul 01, 2015–Jul 31, 2017	MD Anderson Jones Oncology Dose Study AX Contract, Siemens Medical Solutions USA, Inc., C218741 Principal Investigator (\$ 14,103 incl. indirect costs; \$6,773/year) The major goal of this study is to quantify radiation dose and image quality for both FPCT and MSCT using metrics that allow for direct comparisons between the two types of volume CT.
Past, May 01, 2014–Jun 30, 2015	Feasibility of using dual energy CT (DECT) for measuring contrast enhancement in single phase CT exams GE Healthcare Co-Principal Investigator (Chaan Ng, M.D. PI) (\$ 80,440 incl. indirect costs; \$69,084/year) The major goal of this study is to carefully investigate the accuracy of measured contrast enhancement in VUE images across a wide range of tissues, contrast enhancement, patient sizes and CT acquisition parameters.
Past, Jun 01, 2010–May 31, 2011	Interventional Radiology Patient Radiation Dose Passport Society of Interventional Radiology Foundation Collaborator (Steele, J PI) (\$ 20,872 incl. indirect costs; \$20,872/year)
Not funded, Dec 01, 2024–Nov 30, 2029	Customizing Personalized Approaches Integrating Imaging, ctDNA, and Clinical Data for Recommending, Monitoring, and Managing Local Curative Therapies in Patients with Colorectal Cancer Liver Metastasis NIH/NCI, 1R01CA294577-01A1 Co-Investigator (Odisio, Bruno PI) (\$ 2,452,952 incl. indirect costs; \$490,590/year) To date, surgical resection and percutaneous thermal ablation (PTA) are the only local curative-intent therapy options for colorectal liver metastases (CLM) with similar 5-year overall survival rates. To improve outcomes for patients with CLM, predictive models have the potential to improve patient selection and improve the consistency of PTA treatment delivery by means of achieving optimal ablative margins without excess loss of healthy liver parenchyma which would not only improve local outcomes but also increase the number of patients who would benefit from salvage curative-intent treatment since most patients develop new CLM during their disease course. Due to the historically high local tumor progression rates, additional imaging follow-up is recommended for patients after PTA but recent developments in ctDNA for treatment response assessment and state-of-the art image fusion for intra-procedural ablative margins quantification could be leveraged to personalize the follow-up schedule and apply an adaptive follow-up de-escalation.
Not funded, Sep 01, 2022–Aug 31, 2024	Biomechanical Modeling to Predict Tumor Localization During Lung Minimally Invasive Surgery NIH/NIBIB, 1R21EB034003-01 Co-Investigator (Cazoulat, Guillaume PI) (\$ 275,000 incl. indirect costs; \$137,500/year) Minimally invasive surgery for lung cancer is a technique involving only small chest incisions, causing significantly less postoperative pain and associated with a lower risk of mortality than traditional lung surgery. Unfortunately, for some patients, the localization of the tumor during the intervention is too challenging as the lung is deflated to make room for the surgical instruments and video camera in the chest cavity. The goal of this project is to develop computer software that will generate a 3D model of the patient anatomy from a pre-operative 3D image and simulate how the lung deflates during the surgery using

Not funded, Jan 01, 2022–Dec 31, 2023

biomechanics, which should contribute to making more patients eligible for minimally invasive surgery.

Biomechanical Modeling to Predict Tumor Localization During Lung Minimally Invasive Surgery
 Department of Defense (DOD), FP 14380
 Co-Investigator (Cazoulat, Guillaume PI) (\$ 345,578 incl. indirect costs; \$172,789/year)
 To develop a fully automated workflow that will stimulate how the lung will deflate during minimally invasive surgery, solely based on biomechanical modeling of the anatomy from a pre-operative CT scan

CLINICAL PROTOCOLS

Completed, 2007–2010 Pilot study assessing the technical efficacy of Computed Tomography Urography (CTU) vs Intravenous Urography (IVU), with particular focus on patients at risk of urothelial tumors
 Diagnostic Imaging Clinical Research Committee, 2007-0381
 Collaborator (Chaan Ng, M.D. PI)

Not funded, 2018–2021 Pilot phase of the ACR-SIR Fluoroscopy Dose Index Registry, n/a
 Principal Investigator

Not funded, 2015–2018 Patient skin doses during CT-guided interventions, PA15-0034
 Principal Investigator

Not funded, 2014–2018 Patient skin doses during interventional cardiology procedures, PA14-0433
 Principal Investigator

Not funded, 2013–2015 Impact of innovative delivery technique on radiation dose during Y-90 hepatic embolization, PA13-0091
 Principal Investigator

Not funded, 2011–2012 Patient Skin Dose during Interventional Radiology Procedures, PA11-0954
 Principal Investigator

Not funded, 2011–2012 Impact of cone beam CT on subselective catheterization in patients undergoing chemoembolization, PA11-0170
 Collaborator (Michael Wallace PI)

TEACHING AND TRAINING

FORMAL TEACHING, UNDER- THROUGH POST-GRADUATE

Jan 2018–Present Fluoroscopy Privileging Program for APPs, Coordinator and Instructor
 The University of Texas MD Anderson Cancer Center

Jan 2018–Present Fundamentals of Anatomy, Physiology, and Biology for Medical Physics II (GS02-1073), Coordinator
 University of Texas Graduate School of Biomedical Sciences

Aug 2017–Aug 01, 2025 Fundamental Anatomy, Physiology, and Biology for Medical Physicists I (GS02-1063), Coordinator
 University of Texas Graduate School of Biomedical Sciences

Feb 2013	MTMI Hands-on CR/DR Workshop for Medical Physicists, Lecturer/lab instructor Medical Technology Management Institute
Oct 2012–Nov 2012	MTMI CR/DR Webinar, Organizer/Presenter Medical Technology Management Institute
Feb 2012	MTMI CR/DR Webinar, Organizer/Presenter Medical Technology Management Institute
Oct 2011	MTMI CR/DR Webinar, Organizer/Presenter Medical Technology Management Institute
Mar 2011	Hands-on Multi Slice CT Workshop for Physicists, Lab instructor Medical Technology Management Institute
Jan 2011–Jun 2011	Medical Physics Seminar (GS02-0731), Coordinator The University of Texas MD Anderson Cancer Center
Jun 2010–Present	Lectures on requested physics topics for radiology residents and fellows throughout the year; often in preparation for American Board of Radiology examination, Lecturer University of Texas M. D. Anderson Cancer Center
May 2010	Hands-on Multi Slice CT Workshop for Physicists, Instructor Medical Technology Management Institute
2010–2011	IAEA Fellowship Program, Melvyn Hernandez-Campos, Training Director The University of Texas MD Anderson Cancer Center
2010–2013	Current Topics and Special Applications in Computed Tomography (DI 4355), Coordinator School of Health Professions
2010–2018	Introduction to Medical Physics II: Medical Imaging (GS02-0103), Lecturer UT-GSBS
2009–2016	Anatomy and Oncology for Medical Physicists (GS02-0142), Coordinator UT-GSBS
2009–2010	Radiation Detection, Instrumentation, and Data Analysis (GS02-0053), Instructor UT-GSBS
Sep 2008	Hands-on Multi Slice CT Workshop for Physicists, Instructor Medical Technology Management Institute
Jun 2008	The Physics and Applications of PET/CT Imaging (Hands -on Session), Faculty Member AAPM 2008 Summer School, The University of Texas MD Anderson Cancer Center
Jan 2008	Hands-on Multi Slice CT Workshop for Physicists, Instructor Medical Technology Management Institute
Nov 2007	Hands-on Multi Slice CT Workshop for Physicists, Instructor Medical Technology Management Institute
Sep 2007	Hands-on Multi Slice CT Workshop for Physicists, Instructor Medical Technology Management Institute
2007–Present	Interventional Radiology Fellowship Program, Faculty The University of Texas MD Anderson Cancer Center
2007	Radiation Protection and Safety (RT 4101), Instructor BSRT Program School of Health Professions
2007–2008	Anatomy and Oncology for Medical Physicists (GS02-0142), Lecturer UT-GSBS

- 2007–2009 Quality Management in Radiology (RT 3343), Instructor
BSRT Program
School of Health Professions
- 2006–2013 IAEA Fellowship Training Program, Instructor
The University of Texas MD Anderson Cancer Center
- 2006–Present Diagnostic Imaging Physics Residency Program, Faculty
The University of Texas M. D. Anderson Cancer Center
- 2006–2015 Introductory Diagnostic Imaging Rotation Course (GS02 0174), Instructor
University of Texas Graduate School of Biomedical Sciences (UT-GSBS)

CLINICAL SUPERVISION AND TRAINING

- 2006–Present Mentored 60+ Imaging Physics Residents as faculty in the Diagnostic Imaging Physics Residency Program, The University of Texas M. D. Anderson Cancer Center
- 2006–Present Mentored 120+ Interventional Radiology Fellows and diagnostic radiology residents as faculty in the Interventional Radiology Fellowship Program, The University of Texas M. D. Anderson Cancer Center
- 2006–Present Conduct didactic and hands-on training on the safe use of fluoroscopy for Clinical Fellows, 2008-present

LAB OR OTHER RESEARCH SUPERVISION AND TRAINING

- Sep 2022 Examining Committees (Member), The University of Texas MD Anderson Cancer Center
Sep 2022, Hunter Mehrens, MS (PhD)
- Jul 2014–Present (Faculty), The University of Texas MD Anderson Cancer Center
Jul 2014–Present, Paul Hannon, MD
Jul 2014–Present, Justin Muhlenberg, MD
Jul 2014–Present, Michael Richter, MD
Jul 2014–Present, Steven Cooper, MD
- Mar 2014–Jun 2016 Advisory Committees (Chair), UT-GSBS
Mar 2014–Jun 2016, Dawn Olivia Popnoe (MS)
- 2006–2017 Advisory Committees (Member), UT-GSBS
2013–2017, Xenia Fave (PhD)
2012–2014, Matthew Wait (M.S.)
2010–2011, Jonathon Mueller (M.S.)
2006–2007, Alana McDermott, M.S.

FORMAL TEACHING OF PEERS

- May 2023 IAEA International Workshop on Radiation Protection Optimization in Fluoroscopy Guided Interventional Procedures
International Atomic Energy Agency
- Jan 2023 A First Look at the Clinical Data from the American College of Radiology Fluoroscopy Dose Index Registry (DIR-Fluoro)

- International Atomic Energy Agency; Webinar
- Oct 2022 IAEA International Workshop on Radiation Protection Optimization in Fluoroscopy Guided Interventional Procedures
International Atomic Energy Agency
- May 2021 American College of Radiology Quality and Safety Series: Non-traditional roles of the medical physicist
American College of Radiology; Virtual
- Nov 2019 Manage what you can measure: Hands-on training on radiation management in fluoroscopy
Department of Radiology
Mayo Clinic; Jacksonville, FL
- Nov 2019 Radiology Grand Rounds: Trends in radiation dose in interventional imaging
Department of Radiology
Mayo Clinic; Jacksonville, FL
- Dec 2012 Establishing a patient safety program in Interventional Radiology
Radiology
Baylor College of Medicine; Houston, TX
- Jun 2009 Activities of AAPM TG 151
Texas Department of State Health Services; Austin, TX
- Jun 2009 Digital tomosynthesis
Texas Department of State Health Services; Austin, TX
- Oct 2008 Translating traditional quality control in the era of digital imaging
Texas Department of State Health Services; Austin, TX
- Oct 2008 Monitoring and recording patient dose in interventional radiology
Texas Department of State Health Services; Austin, TX
- Sep 2007 Tomosynthesis, current and future utilization
Henry Ford Health System; Detroit, MI
- Nov 2005 Dosimetry in pediatric diagnostic radiology using tomographic physical phantoms
Georgia Institute of Technology; Atlanta, GA

PRESENTATIONS & TALKS

LOCAL

- Jul 27, 2013 Establishing an interventional radiology patient safety program
Invited talk/seminar
Southwest Imaging Council; Houston, TX
- Jul 27, 2013 Updates to TAC 289.227 - Use of radiation in the healing arts
Invited talk/seminar
Southwest Imaging Council; Houston, TX
- Apr 26, 2012 Dose management in radiology
Invited talk/seminar
Association for Medical Imaging Management (AHRA); Houston, TX
- 2008 Principles of Dual Energy Imaging
Invited talk/seminar
2008 CME Seminar
The Division of Diagnostic Imaging and The Department of Radiation Oncology,
U.T. M. D. Anderson Cancer Center; Houston, TX

REGIONAL

Nov 2022	Introduction to Medical Physics Invited talk/seminar (Presenter) Texas A+M University Commerce; Commerce, TX
Apr 08, 2022	The American College of Radiology Dose Index Registry Invited talk/seminar (Presenter) Southwest Chapter of the American Association of Physicists in Medicine; Remote
Apr 27, 2018	The future of medical physics Invited talk/seminar (Presenter) Southwest Chapter of the American Association of Physicists in Medicine; Houston, TX
Apr 22, 2017	The DI as a means to drive quality improvement: Musings of the co-chair of AAPM TG 232 Invited talk/seminar (Presenter) Arizona Chapter of the American Association of Physicists in Medicine; Phoenix, AZ
Apr 23, 2016	Radiation Management in Interventional Radiology Invited talk/seminar (Presenter) Texas Radiological Society; San Antonio, TX
Apr 22, 2016	CT Protocol Management and Optimization Invited talk/seminar (Presenter) Texas Radiological Society; San Antonio, TX
Sep 20, 2012	Creation and implementation of a standardized work for CT-guided biopsy procedures Peer-reviewed conference presentation (Presenter) University of Texas Clinical Safety and Effectiveness Conference; San Antonio, TX
Mar 31, 2012	Patient safety and physician performance in fluoroscopy Invited talk/seminar (Presenter) Southwest Chapter of the AAPM; Oklahoma City, OK
Mar 30, 2012	Flat panel CT: A new spin on CT Invited talk/seminar (Presenter) Southwest Chapter of the AAPM; Oklahoma City, OK
Mar 30, 2012	Point/Counterpoint: Emission imaging will replace transmission imaging for breast cancer screening (Moderator) Southwest Chapter of the AAPM; Oklahoma City, OK
Mar 22, 2012	Patient Safety in Fluoroscopic Imaging Invited talk/seminar (Presenter) North Carolina Chapter of the Health Physics Society; Raleigh, NC
Mar 22, 2012	Risky Business - Understanding and Communicating Risk Invited talk/seminar (Presenter) North Carolina Chapter of the Health Physics Society; Raleigh, NC
Mar 2010	Tomosynthesis physics Invited talk/seminar (Presenter) Texas Radiological Society Annual Meeting; The Woodlands, TX
2009	Establishing a patient safety program in interventional radiology Invited talk/seminar (Presenter) Southwest Chapter of the AAPM Fall Meeting; Houston, TX
2008	Tomographic imaging using digital tomosynthesis Invited talk/seminar (Presenter) Southwest Chapter of the AAPM Fall Meeting; Albuquerque, NM

- 2005 Evaluation of a tomographic newborn phantom in projection radiography and CT
Peer-reviewed conference presentation (Presenter)
Florida Chapter of the AAPM; Orlando, FL
- 2004 Doses in pediatric radiology - physical phantoms
Peer-reviewed conference presentation (Presenter)
Florida Chapter of the Health Physics Society; Port Canaveral, FL
- 2003 A physical dosimetry phantom based on CT images of a newborn
Peer-reviewed conference presentation (Presenter)
Florida Chapter of the Health Physics Society; St. Augustine, FL
- 2003 The Pediatric Organ Dose (POD) group at the University of Florida
Peer-reviewed conference presentation (Presenter)
Florida Chapter of the AAPM; Orlando, FL
- 2002 Construction of a physical anthropomorphic newborn phantom for use in
diagnostic dosimetry
Peer-reviewed conference presentation (Presenter)
Florida Chapter of the AAPM; Orlando, FL

NATIONAL

- Jul 27, 2025 IAEA International Study of Patient Doses and Tissue Reactions from
Fluoroscopically-Guided Interventional Procedures
AAPM 2025
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine; Washington, DC
- Jul 27, 2023 Enhancements and Updates to the American College of Radiology Dose Index
Registry
AAPM 2025
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine; Houston, TX
- May 09, 2023 The American College of Radiology Dose Index Registry
Invited talk/seminar (Presenter)
Conference of Radiation Control Program Directors; Houston, TX
- Feb 22, 2023 Cone-beam CT with a noncircular (sine-on-sphere) orbit: imaging performance of
a clinical system for image-guided interventions
Peer-reviewed conference presentation (Presenter)
SPIE; San Diego, CA
- Nov 30, 2022 Making patients and staff safer in interventional procedures
Invited talk/seminar (Presenter)
Radiological Society of North America; Chicago, IL
- Nov 28, 2021 SSPH03-2: The American College of Radiology Fluoroscopy Dose Index Registry
Pilot: Dose indices from fluoroscopically-guided interventions (FGI)
Invited talk/seminar (Presenter)
Radiological Society of North American 2021; Chicago, IL
- Nov 28, 2021 S1-CPH14: Strategies for managing patient and operator dose in fluoroscopy
Invited talk/seminar (Presenter)
Radiological Society of North America; Chicago, IL
- May 18, 2021 An Update on the ACR Fluoroscopy Dose Index Registry
Invited talk/seminar (Presenter)
Conference of Radiation Control Program Directors; Virtual
- Apr 20, 2021 TU-A-Diagnostic Room-2: PSD Calculations - Success and Pitfalls with
Conventional Methods

Invited talk/seminar (Presenter)
American Association of Physicists in Medicine; Virtual

Jul 13, 2020 MO-EF-TRACK 4-4: ACR Programs and Updates: DIR Fluoro
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine; Virtual

Jul 16, 2019 TU-HI-304: The ACR-SIR Fluoroscopy Dose Index Registry Pilot
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine; San Antonio, TX

Jul 15, 2019 MO-GH-221AB: Best Practices Guidelines for CT-guided Interventional
Procedures
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine; San Antonio, TX

Mar 27, 2019 Comparison of measured peak skin dose to scanner-reported dose indices during
CT-guided interventions
Peer-reviewed conference presentation (Presenter)
Society of Interventional Radiology; Austin, TX

Mar 27, 2019 Optimization of CT-guided interventional procedures
Invited talk/seminar (Presenter)
Society of Interventional Radiology; Austin, TX

Sep 14, 2018 Risks from Exposure to Low Doses of Ionizing Radiation: Separating Reality from
Hype
Invited talk/seminar (Presenter)
American Academy of Oral and Maxillofacial Radiology (2018 S. Julian Gibbs
Oration); San Antonio, TX

Aug 02, 2018 Acceptance and acceptability testing of fluoroscopic equipment: Image quality
and perception
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine; Nashville, TN

Mar 20, 2018 Management of the pregnant patient in IR
Invited talk/seminar (Presenter)
Society of Interventional Radiology; Los Angeles, CA

Mar 20, 2018 The ACR-SIR Fluoroscopy Dose Index Registry
Invited talk/seminar (Presenter)
Society of Interventional Radiology; Los Angeles, CA

Mar 18, 2018 Abstract No. 1017: An apples-to-apples comparison of radiation dose and image
quality between flat panel CT and multidetector CT
Peer-reviewed conference presentation (Presenter)
Society of Interventional Radiology; Los Angeles, CA

Mar 06, 2017 Equipment selection in IR
Invited talk/seminar (Presenter)
Society of Interventional Radiology; Washington, DC

Mar 06, 2017 The ACR-SIR Fluoroscopy Dose Index Registry
Invited talk/seminar (Presenter)
Society of Interventional Radiology; Washington, DC

Mar 05, 2017 Hands-on lab for radiation management in fluoroscopy
Invited talk/seminar (Presenter)
Society of Interventional Radiology; Washington, DC

Aug 02, 2016 TU-D-206-04: Body Tomosynthesis Acceptance Testing and QC
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine; Washington, DC

- Aug 02, 2016 TU-FG-209-08: Distribution of the Deviation Index (DI) in Digital Radiography Practices Across the United States
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine; Washington, DC
- Aug 02, 2016 TU-D-209-04: How Useful are Indirect Dose Metrics for Estimating Peak Skin Dose in Interventional Cardiology?
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine; Washington, DC
- Jul 31, 2016 SU-D-209-05: Sensitivity of the Diagnostic Radiological Index of Protection (DRIP) to Procedural Factors in Fluoroscopy
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting; Washington, DC
- Jul 16, 2015 Sensitivity of the Diagnostic Radiological Index of Protection (DRIP) to the scatter spectrum in fluoroscopy (TH-AB-201-5)
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine; Anaheim, CA
- Jul 14, 2015 Testing of body and breast tomosynthesis systems
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting; Anaheim, CA
- Jul 13, 2015 256 shades of gray - Exploring your body with medical imaging
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting; Anaheim, CA
- Jul 13, 2015 Applying PDSA to a practical clinical problem: Variation in procedural doses among interventional radiologists
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting; Anaheim, CA
- Feb 28, 2015 Hands-on fluoroscopy lab for residents and fellows
Invited talk/seminar (Presenter)
Society of Interventional Radiology; Atlanta, GA
- Dec 04, 2014 Medical Physics 2.0: Radiography 1.0 (RC621B)
Invited talk/seminar (Presenter)
Radiological Society of North America; Chicago, IL
- Dec 02, 2014 Establishing an Interventional Radiology Patient Radiation Safety Program (RC323C)
Invited talk/seminar (Presenter)
Radiological Society of North America; Chicago, IL
- Dec 01, 2014 AAPM/RSNA Basic Physics Lecture for the Radiologic Technologist: Radiography: Getting the Information We Need and Doing It Efficiently (An Interactive Session) (SPPH21)
Invited talk/seminar (Presenter)
Radiological Society of North America; Chicago, IL
- Jul 23, 2014 How accurately can the peak skin dose in fluoroscopy be determined using indirect dose metrics?
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine; Austin, TX
- Jul 23, 2014 WE-G-19A-1: Radiologists and Medical Physicists: Working Together to Achieve Common Goals in Interventional Radiology
Invited talk/seminar (Presenter)

American Association of Physicists in Medicine (AAPM) Annual Meeting; Austin, TX

Jul 21, 2014 MO-G-18A-2: Optimizing dose and image quality in fluoroscopy
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting; Austin, TX

Jul 20, 2014 Diagnostic Imaging Review Course: Optimization of dose and image quality in fluoroscopy
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting; Austin, TX

May 18, 2014 Privileging of fluoroscopy users
Peer-reviewed conference presentation (Presenter)
Conference of Radiation Control Program Directors (CRCPD) and American Association of Physicists in Medicine (AAPM); Atlanta, GA

May 18, 2014 Radiation dose notification levels in fluoroscopy
Peer-reviewed conference presentation (Presenter)
Conference of Radiation Control Program Directors (CRCPD) and American Association of Physicists in Medicine (AAPM); Atlanta, GA

May 18, 2014 Q/A session on fluoroscopy basics
Invited talk/seminar (Presenter)
Conference of Radiation Control Program Directors (CRCPD) and American Association of Physicists in Medicine (AAPM); Atlanta, GA

Mar 23, 2014 WK68: Quality improvement in IR with a focus on managing radiation dose
Invited talk/seminar (Presenter)
Society of Interventional Radiology; San Diego, CA

Mar 23, 2014 WK68: Practical tips for managing radiation during CT interventions
Invited talk/seminar (Presenter)
Society of Interventional Radiology; San Diego, CA

Dec 05, 2013 RC623C: Establishing a patient safety program in interventional radiology
Invited talk/seminar (Presenter)
Radiological Society of North America; Chicago, IL

Dec 03, 2013 RC421B: Medical Physics 2.0: Radiography 1.0
Invited talk/seminar (Presenter)
Radiological Society of North America; Chicago, IL

Aug 07, 2013 Establishing an Interventional Radiology Patient Radiation Safety Program (WE-A-144-01)
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting; Indianapolis, IN

Aug 05, 2013 AAPM Task Group 151 (MO-A-116-1)
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting; Indianapolis, IN

Aug 04, 2013 On the (f)utility of measuring the lead equivalence of protective garments (SU-D-134-04)
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting; Indianapolis, IN

Aug 04, 2013 History of the Southwest Chapter of AAPM
Peer-reviewed conference presentation (Presenter)

American Association of Physicists in Medicine (AAPM) Annual Meeting;
Indianapolis, IN

May 19, 2013 Establishing a patient safety program in interventional radiology
Invited talk/seminar (Presenter)
Conference of Radiation Control Program Directors; Portland, OR

May 19, 2013 What is a safety culture in radiography, and how would I know it if I saw it?
Invited talk/seminar (Presenter)
Conference of Radiation Control Program Directors; Portland, OR

Apr 16, 2013 Complexity should be accounted for in dose assessment for transarterial
chemoembolization (TACE)
Peer-reviewed conference presentation (Presenter)
Society of Interventional Radiology; New Orleans, LA

Apr 12, 2013 Interventional radiology procedures – How medical physicists and radiologists
work together to achieve clinical endpoints and protect the patient
Peer-reviewed conference presentation (Presenter)
Southwest Chapter of the AAPM; Montgomery, TX

Nov 29, 2012 RC723C: Something for Nothing: Using the information you already have to
perform meaningful QC (SAM)
Invited talk/seminar (Presenter)
Radiological Society of North America; Chicago, IL

Nov 28, 2012 Impact of C-arm cone beam CT (CBCT) on radiation dose during hepatic
chemoembolization (SSK19-07)
Peer-reviewed conference presentation (Presenter)
Radiological Society of North America; Chicago, IL

Nov 26, 2012 RC223C: Establishing a patient safety program in Interventional Radiology
Invited talk/seminar (Presenter)
Radiological Society of North America; Chicago, IL

Jun 26, 2012 Fluoroscopy/Interventional: Dose Estimation and Measurement
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine Summer School; San Diego, CA

Jun 26, 2012 Fluoroscopy/Interventional: New Technologies & Applications, Including
Oncology
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine Summer School; San Diego, CA

Nov 27, 2011 RC123C: Something for Nothing: Using the information you already have to
perform meaningful QC
Invited talk/seminar (Presenter)
Radiological Society of North America; Chicago, IL

Aug 31, 2011 Creating a radiation safety and tracking system in IR
Invited talk/seminar (Presenter)
Western Angiographic and Interventional Society; Lake Tahoe, CA

May 15, 2011 Model CT quality assurance - CRCPD CT Training
Invited talk/seminar (Presenter)
Conference of Radiation Control Program Directors/AAPM; Austin, TX

Jul 2010 Risks in interventional radiology and establishing a patient safety program (TH-A-
202-01)
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting;
Philadelphia, PA

- May 2010 From fan beam to cone beam: Optimizing dose and image quality in flat panel CT
Invited talk/seminar (Presenter)
American College of Medical Physics (ACMP) Annual Meeting; San Antonio, TX
- 2010 New recommendations for the reduction of skin dose in non-cardiac
interventional radiology. No. 306
Peer-reviewed conference presentation (Presenter)
Society of Interventional Radiology Annual Meeting; Tampa, FL
- Jul 2009 Adapting traditional clinical medical physics to digital radiography – Calibrating
Automatic Exposure Control for digital radiography (TU-C-213A-1)
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting;
Anaheim, CA
- Jul 2009 Accuracy of quality control measurements with solid-state detectors in
diagnostic radiology (SU-FF-I-76)
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting;
Anaheim, CA
- May 2009 Quality control of digital radiography systems
Invited talk/seminar (Presenter)
Conference of Radiation Control Program Directors; Columbus, OH
- May 2009 Activities of AAPM Task Group 151
Invited talk/seminar (Presenter)
Conference of Radiation Control Program Directors; Columbus, OH
- 2009 Physics Case of the Day
Peer-reviewed conference presentation (Presenter)
RSNA Annual Meeting; Chicago, IL
- Jul 2008 Adapting Traditional Medical Physics to Digital Radiography – Using Automatic
Exposure Control in Digital Radiography (TU-C-352-1)
Invited talk/seminar (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting;
Houston, TX
- Jul 2008 Is it safe? A look at exposures in the shadow of MDCT scanner gantries. (SU-GG-
I-61)
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting;
Houston, TX
- 2007 Comparison of digital tomosynthesis technology with conventional technology
for intravenous pyelogram (IVP) studies (SU-FF-I-114)
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting;
Minneapolis, MN
- 2007 Making hanging protocols work in a clinical setting (SU-FF-I-42)
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting;
Minneapolis, MN
- 2006 Physics Case of the Day
Peer-reviewed conference presentation (Presenter)
Radiological Society of North America (RSNA) Annual Meeting; Chicago, IL
- 2006 Optimizing dose and image quality in pediatric computed tomography (SU-FF-I-
25)
Peer-reviewed conference presentation (Presenter)

- American Association of Physicists in Medicine (AAPM) Annual Meeting;
Orlando, FL
- 2005 Point-to-organ dose scaling factors for use in pediatric radiology (TU-E-I-611-5)
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting; Seattle,
WA
- 2004 A tomographic, anthropomorphic newborn phantom for diagnostic dosimetry in
pediatric radiology (TH-C-317-7)
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting;
Pittsburgh, PA
- 2003 Development of new tissue-equivalent materials for use in a series of pediatric
anthropomorphic phantoms
Peer-reviewed conference presentation (Presenter)
Health Physics Society Annual Meeting; San Diego, CA
- 2002 The history and development of the MOSFET dosimeter
Peer-reviewed conference presentation (Presenter)
Health Physics Society Annual Meeting; Tampa, FL
- 2001 IDL visualization of $Q=0.075$ SU UMa dwarf novae
Peer-reviewed conference presentation (Presenter)
American Astronomical Society Annual Meeting; San Diego, CA
- 2000 Spinning particle motion in a Kerr geometry
Peer-reviewed conference presentation (Presenter)
American Astronomical Society Annual Meeting; Atlanta, GA

INTERNATIONAL

- Dec 10, 2025 The IAEA International Study of Patient Doses and Tissue Reactions from
Fluoroscopy Guided Interventional Procedures: Relationship Between
Procedure Volume and Procedures Exceeding Trigger Levels
International Conference on Radiation Protection in Medicine: X-Ray Vision
Poster presentation (Presenter)
International Atomic Energy Agency; Vienna, Austria
- Nov 19, 2024 Shaping the future: The role of the medical physicist in image-guided tumor
ablation
Engineering and Physical Sciences in Medicine 2024
Invited talk/seminar (Presenter)
ACPSEM; Melbourne, Victoria
Australia
- Nov 18, 2024 Image quality in angiography: Where to start?
Engineering and Physical Sciences in Medicine 2024
Invited talk/seminar (Presenter)
ACPSEM; Melbourne, Victoria
Australia
- Nov 17, 2024 Key aspects of image quality in angiography - Practical
Engineering and Physical Sciences in Medicine 2024 Summer School
Panel or roundtable (Presenter)
ACPSEM; Melbourne, Victoria
Australia
- Nov 16, 2024 Key aspects of image quality in angiography
Engineering and Physical Sciences in Medicine 2024 Summer School
Invited talk/seminar (Presenter)
ACPSEM; Melbourne, Victoria

Australia

- Oct 20, 2022 Radioprotective equipment for fluoroscopy
Invited talk/seminar (Presenter)
International Atomic Energy Agency; Trieste, Italy
- Oct 19, 2022 Hands-on exercises
Invited talk/seminar (Presenter)
International Atomic Energy Agency; Trieste, Italy
- Oct 18, 2022 Overview of dose index registries
Invited talk/seminar (Presenter)
International Atomic Energy Agency; Trieste, Italy
- Oct 17, 2022 Automatic dose rate control
Invited talk/seminar (Presenter)
International Atomic Energy Agency; Trieste, Italy
- Mar 08, 2022 Challenges in establishing fluoroscopy dose registries
Invited talk/seminar (Presenter)
International Atomic Energy Agency (IAEA); Remote
- Mar 23, 2019 Estimation and interpretation of skin dose during interventional procedures
Invited talk/seminar (Presenter)
Irish Association of Physicists in Medicine; Dublin, Ireland
- Apr 04, 2016 Preview of the CT Best Practices Guidelines (SAM)
Invited talk/seminar (Presenter)
Society of Interventional Radiology; Vancouver, British Columbia
Canada
- Apr 02, 2016 Hands-on fluoroscopy lab for residents and fellows
Invited talk/seminar (Presenter)
Society of Interventional Radiology; Vancouver, British Columbia
Canada
- Sep 14, 2015 Mystery meat OR Learn something you didn't know about radiation
management
Invited talk/seminar (Presenter)
Western Angiographic and Interventional Society; Vancouver, British Columbia
Canada
- May 31, 2012 Quality control in digital radiography and fluoroscopy
Invited talk/seminar (Presenter)
World Congress of Medical Physics and Biomedical Engineering; Beijing, China
- May 30, 2012 Dose tracking and monitoring in interventional radiology
Invited talk/seminar (Presenter)
World Congress of Medical Physics and Biomedical Engineering; Beijing, China
- May 27, 2012 Evaluation of the potential utility of FPCT for quantifying relative enhancement
Peer-reviewed conference presentation (Presenter)
World Congress of Medical Physics and Biomedical Engineering; Beijing, China
- 2002 Characterization of high-sensitivity, isotropic p-MOSFET dosimeters and a new
tissue-equivalent plastic for use in pediatric anthropomorphic phantoms (WE-C-
519-9)
Peer-reviewed conference presentation (Presenter)
American Association of Physicists in Medicine (AAPM) Annual Meeting;
Montreal, Canada

ORGANIZING CONFERENCES/CHAIRING SESSIONS

REGIONAL

- Apr 2018 Professional Aspects of Medical Physics
Moderator
Southwest Chapter of the American Association of Physicists in Medicine;
Houston, TX
- Jul 2014 Radiography/Fluoroscopy Imaging Scientific Session
Moderator
American Association of Physicists in Medicine; Austin, TX
- Apr 2013 Southwest Chapter of the AAPM
Conference organizer
Montgomery, TX
- Apr 2013 Session II - Radiologists and medical physicists - Working together to achieve
common goals (SAM)
Chair
Southwest Chapter of the AAPM; Montgomery, TX
- Apr 2011 Session III - Imaging dosimetry and patient safety
Chair
Southwest Chapter of the AAPM; Dallas, TX

NATIONAL

- Jul 29, 2025 Diagnostic and Interventional Radiology Physics SNAP Oral: AI, Dosimetry, and
Optimization in Diagnostic and Interventional X-Ray Imaging
Co-moderator
American Association of Physicists in Medicine; Washington, DC
- Jul 27, 2023 Not Just CT: The American College of Radiology Dose Index Registry
Chair
American Association of Physicists in Medicine; Houston, TX
- Jul 24, 2023 The Emerging Role of Medical Physics in Surgery
Co-chair
American Association of Physicists in Medicine; Houston, TX
- Jul 23, 2023 X-Ray Radiography, Tomosynthesis and Dosimetry
Moderator
American Association of Physicists in Medicine; Houston, TX
- Nov 2022 S1-CPH14: Making Patients and Staff Safer in Interventional Procedures
Moderator
Radiological Society of North America; Chicago, IL
- Nov 2022 W3-CPH12 - Making patients and staff safer in interventional procedures
Moderator
Radiological Society of North America; Chicago, IL
- Mar 2021 Beyond the Clinic: Non-traditional roles of the medical physicist in the
healthcare enterprise
Moderator
Southwest Chapter of the American Association of Physicists in Medicine; Virtual
- Aug 2018 Radiation Dose and Image Quality in Fluoroscopy: Part 2
Moderator
American Association of Physicists in Medicine; Nashville, TN
- Aug 2018 Radiation Dose and Image Quality in Fluoroscopy: Part 1
Moderator
American Association of Physicists in Medicine; Nashville, TN
- Mar 2018 Hands-on fluoroscopy lab for residents and fellows
Chair

Society of Interventional Radiology; Los Angeles, CA

Mar 2017 Radiation Protection for Patients and Staff
Moderator
Society of Interventional Radiology; Washington, DC

Apr 2016 Hands-on fluoroscopy lab for residents and fellows
Chair
Society of Interventional Radiology; Vancouver, British Columbia

Jul 2015 A Review of Radiologic Anatomy (MO-DE-201-0)
Moderator
American Association of Physicists in Medicine; Anaheim, CA

Jul 2015 Practice Quality Improvement (MO-F-304-0)
Moderator
American Association of Physicists in Medicine; Anaheim, CA

Jul 2015 Radiography, Fluoroscopy - Radiation Dose and Quality Assurance (TH-AB-201-0)
Moderator
American Association of Physicists in Medicine; Anaheim, CA

Mar 2015 Hands-on fluoroscopy lab for residents and fellows
Chair
Society of Interventional Radiology; Atlanta, GA

2015 American Association of Physicists in Medicine
Co-director, Professional Program
Anaheim, CA

Aug 2013 SNAP Oral Session: Radiography/Fluoroscopy/Ultrasound (SU-D-134)
Moderator
American Association of Physicists in Medicine (AAPM); Indianapolis, IN

Aug 2013 Practical Medical Physics: AAPM Task Group 151 (MO-A-116)
Moderator
American Association of Physicists in Medicine (AAPM); Indianapolis, IN

Jun 2012 AAPM Summer School - Fluoroscopy/Interventional session
Chair
American Association of Physicists in Medicine (AAPM); San Diego, CA

Mar 2012 Session II - Imaging
Chair
Southwest Chapter of the AAPM; Oklahoma City, OK

Jul 2010 Diagnostic Imaging Continuing Education Program
Co-director
American Association of Physicists in Medicine (AAPM); Philadelphia, PA

Jul 2010 Radiography and Fluoroscopy Continuing Education sessions
Chair
American Association of Physicists in Medicine (AAPM); Philadelphia, PA

INTERNATIONAL

Apr 2024 IAEA-ANL International Workshop on Radiation Protection Optimization in
Fluoroscopy Guided Interventional Procedures
Chair
International Atomic Energy Agency and Argonne National Laboratory; Chicago,
IL

May 2023 IAEA-ANL International Workshop on Radiation Protection Optimization in
Fluoroscopy Guided Interventional Procedures
Chair

	International Atomic Energy Agency and Argonne National Laboratory; Houston, TX
Oct 2022	Joint ICTP-IAEA Workshop on Radiation Protection in Image Guided Interventional procedures Moderator International Atomic Energy Agency; Trieste, Italy
Sep 2015	Attitudes towards and management of radiation (XRT) Moderator Western Angiographic and Interventional Society; Vancouver, British Columbia Canada
May 2012	Session chair - Quality Assurance Poster session Chair World Congress of Medical Physics and Biomedical Engineering; Beijing, China
Aug 2011	Diagnostic Imaging Continuing Education Program Director American Association of Physicists in Medicine (AAPM); Vancouver, B.C. Canada

PUBLICATIONS

JOURNAL ARTICLES - ORIGINAL RESEARCH

1. Rypinski TA, Casal RF, Pillai PS, Deva A, Soni B, Sarwar O, Milhorn AC, **Jones AK**, Chintalapani G, Kleinszig G, Ost DE, Grosu HB, Siewerdsen JH. Surgical Process Modeling of Workflow and Performance in Image-Guided Bronchoscopy. *Ann Biomed Eng*. 2025 Oct 11; PMID: 41076493 <https://doi.org/10.1007/s10439-025-03861-5>.
2. Deva A, Rypinski TA, Pillai PS, Soni B, Sarwar O, Milhorn AC, **Jones AK**, Tatsui CE, Rhines LD, North RY, Alvarez-Breckenridge C, Bird JE, Siewerdsen JH. Statistical Surgical Process Modeling: Analysis of Workflow and Performance of Emerging Technologies in Image-Guided Spine Surgery. *Ann Biomed Eng*. 2025 Sep 29; PMID: 41023347 <https://doi.org/10.1007/s10439-025-03855-3>.
3. Siddiqi NS, Lin YM, Marques Silva JA, Laimer G, Schullian P, Scharll Y, Dunker AM, O'Connor CS, **Jones KA**, Brock KK, Bale R, Odisio BC, Paolucci I. Minimal Ablative Margin Quantification Using Hepatic Arterial Versus Portal Venous Phase CT for Colorectal Metastases Segmentation: A Dual-center, Retrospective Analysis. *J Comput Assist Tomogr*. 2025 Jul 24; PMID: 40705461 <https://doi.org/10.1097/RCT.0000000000001782>.
4. Odisio BC, Albuquerque J, Lin YM, Anderson BM, O'Connor CS, Rigaud B, Briones-Dimayuga M, **Jones AK**, Fellman BM, Huang SY, Kuban J, Metwalli ZA, Sheth R, Habibollahi P, Patel M, Shah KY, Cox VL, Kang HC, Morris VK, Kopetz S, Javle MM, Kaseb A, Tzeng CW, Cao HT, Newhook T, Chun YS, Vauthey JN, Gupta S, Paolucci I, Brock KK. Software-based versus visual assessment of the minimal ablative margin in patients with liver tumours undergoing percutaneous thermal ablation (COVER-ALL): a randomised phase 2 trial. *Lancet Gastroenterol Hepatol*. 2025 Mar 13; PMID: 40090348 [https://doi.org/10.1016/S2468-1253\(25\)00024-X](https://doi.org/10.1016/S2468-1253(25)00024-X).
5. Govyadinov P, Layman RR, Netherton T, Mumme R, **Jones AK**, Court LE, Ahmad M. Robust automated method of spatial resolution measurement in radiotherapy CT simulation images. *J Appl Clin Med Phys*. 2025 Mar; 26(3):e70006. PMID: 39946267 <https://doi.org/10.1002/acm2.70006>.
6. Lin YM, Paolucci I, Albuquerque Marques Silva J, O'Connor CS, Hong J, Shah KY, Abdelsalam ME, Habibollahi P, **Jones AK**, Brock KK, Odisio BC. Ablative margin quantification using deformable versus rigid image registration in colorectal liver metastasis thermal ablation: a retrospective single-center study. *Eur Radiol*. 2024 Sep; 34(9):5541-5550. PMID: 38334762 <https://doi.org/10.1007/s00330-024-10632-8>.
7. **Jones AK**, Ahmad M, Raza SM, Chen SR, Siewerdsen JH. Cone-beam CT with a noncircular (sine-on-sphere) orbit: imaging performance of a clinical system for image-guided interventions. *J Med Imaging (Bellingham)*. 2024 Jul; 11(4):043503. PMID: 39185476 <https://doi.org/10.1117/1.JMI.11.4.043503>.
8. Jonasch D, Habibollahi P, **Jones AK**, Avritscher R, Habra MA, Perrier ND, Graham PH, Huang SY. Pre-procedural and intra-procedural computerized tomography: providing a roadmap for successful adrenal venous sampling procedures. *Abdom Radiol (NY)*. 2024 Jul; 49(7):2401-2407. PMID: 38740580 PMCID: PMC11286730.

9. Heshmat A, O'Connor CS, Albuquerque Marques Silva J, Paolucci I, **Jones AK**, Odisio BC, Brock KK. Using Patient-Specific 3D Modeling and Simulations to Optimize Microwave Ablation Therapy for Liver Cancer. *Cancers (Basel)*. 2024 May 31; 16(11) PMID: 38893214 <https://doi.org/10.3390/cancers16112095>.
10. Lin YM, Paolucci I, Albuquerque Marques Silva J, O'Connor CS, Fellman BM, **Jones AK**, Kuban JD, Huang SY, Metwalli ZA, Brock KK, Odisio BC. Intraprocedural Versus Initial Follow-up Minimal Ablative Margin Assessment After Colorectal Liver Metastasis Thermal Ablation: Which One Better Predicts Local Outcomes? *Invest Radiol*. 2024 Apr 01; 59(4):314-319. PMID: 37812469 <https://doi.org/10.1097/RLI.0000000000001023>.
11. Gupta AC, Cazoulat G, Al Taie M, Yedururi S, Rigaud B, Castelo A, Wood J, Yu C, O'Connor C, Salem U, Silva JAM, **Jones AK**, McCulloch M, Odisio BC, Koay EJ, Brock KK. Fully automated deep learning based auto-contouring of liver segments and spleen on contrast-enhanced CT images. *Sci Rep*. 2024 Feb 26; 14(1):4678. PMID: 38409252 <https://doi.org/10.1038/s41598-024-53997-y>.
12. **Jones AK**, Wunderle KA, Mahesh M. Policy and Process Considerations for the Updated Joint Commission Fluoroscopy Sentinel Event Definition. *J Am Coll Radiol*. 2024 Feb; 21(2):366-368. PMID: 37820834 <https://doi.org/10.1016/j.jacr.2023.05.026>.
13. Paolucci I, Albuquerque Marques Silva J, Lin YM, Fellman BM, **Jones AK**, Tatsui CE, Weinberg JS, Ruiz J, Tan J, Brock KK, Bale R, Odisio BC. Study Protocol STEREO LAB: Stereotactic Liver Ablation Assisted with Intra-Arterial CT Hepatic Arteriography and Ablation Confirmation Software Assessment. *Cardiovasc Intervent Radiol*. 2023 Dec; 46(12):1748-1754. PMID: 37563313.
14. Lin YM, Paolucci I, O'Connor CS, Anderson BM, Rigaud B, Fellman BM, Jones KA, Brock KK, Odisio BC. Ablative Margins of Colorectal Liver Metastases Using Deformable CT Image Registration and Autosegmentation. *Radiology*. 2023 Apr; 307(2):307. PMID: 36719291 PMCID: PMC10102669.
15. **Jones AK**, Wunderle KA, Fruscello T, Simanowith M, Cline B, Dharmadhikari S, Duan X, Durack JC, Hirschl D, Kim DS, Mahmood U, Mann SD, Martin C, Metwalli Z, Moirano JM, Neill RA, Newsome J, Padua H, Schoenfeld AH, Miller DL. Patient Radiation Doses in Interventional Radiology Procedures: The American College of Radiology Dose Index Registry-Fluoroscopy (DIR-Fluoro) Pilot. *J Vasc Interv Radiol*. 2023 Apr; 34(4):544-555.e11. PMID: 36379286.
16. **Jones AK**, Wunderle KA, Fruscello T, Simanowith M, Cline B, Dharmadhikari S, Duan X, Durack JC, Hirschl D, Kim DS, Mahmood U, Mann SD, Martin C, Metwalli Z, Moirano JM, Neill RA, Newsome J, Padua H, Schoenfeld AH, Miller DL. Patient Radiation Doses in Interventional Radiology Procedures: Comparison of Fluoroscopy Dose Indices between the American College of Radiology Dose Index Registry-Fluoroscopy Pilot and the Radiation Doses in Interventional Radiology Study. *J Vasc Interv Radiol*. 2023 Apr; 34(4):556-562.e3. PMID: 36031041.
17. Paolucci I, Lin YM, **Jones AK**, Brock KK, Odisio BC. Use of Contrast Media During CT-guided Thermal Ablation of Colorectal Liver Metastasis for Procedure Planning is Associated with Improved Immediate Outcomes. *Cardiovasc Intervent Radiol*. 2023 Mar; 46(3):327-336. PMID: 36609863 PMCID: PMC10446157.
18. Paolucci I, Lin YM, Kawaguchi Y, Maki H, **Jones AK**, Calandri M, Kopetz S, Newhook TE, Brock KK, Vauthey JN, Odisio BC. Targeted exome-based predictors of patterns of progression of colorectal liver metastasis after percutaneous thermal ablation. *Br J Cancer*. 2023 Jan; 128(1):130-136. PMID: 36319850 PMCID: PMC9814547.
19. Lin YM, Paolucci I, Anderson BM, O'Connor CS, Rigaud B, Briones-Dimayuga M, **Jones AK**, Brock KK, Fellman BM, Odisio BC. Study Protocol COVER-ALL: Clinical Impact of a Volumetric Image Method for Confirming Tumour Coverage with Ablation on Patients with Malignant Liver Lesions. *Cardiovasc Intervent Radiol*. 2022 Dec; 45(12):1860-1867. PMID: 36058995 PMCID: PMC9712233.
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Legend: 1 = Co-first authors, 2 = Co-second authors, L = Co-last authors, * = Trainee, ✉ = Corresponding author

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