***Curriculum Vitae***

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| --- | --- |
| **Date Prepared:** | 7/11/2025 |
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**Education**

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| --- | --- | --- | --- |
| Year | Degree(Honors) | Field of Study(Thesis advisor for PhDs) | Institution |
| 1999 | BSc | Physics | Arkansas State University |
| 2005 | MSc | Nuclear Engineering | Univ of Tennessee |
| 2012 | PhD | Radiological Sciences | Univ of Texas Health Science Center |

**Postdoctoral Training**

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Titles | Specialty/Discipline(Lab PI for postdoc fellows) | Institution |
| 01/2012 - 12/2013 | Biomedical Physics | Physics | California State University – Fresno (supervisor: Amir Huda, PhD) |

**Professional Development Training**

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| --- | --- | --- |
| Year(s) | Course or Program, Degree if any | Institution |
| 2013 | Advanced Magnetic Resonance Spectroscopy | Institute of Bio-Medical Engineering, ETH, Zurich, Switzerland |
| 2016 | Nuclear and PET Imaging | The Institute of Cancer Research, The Royal Marsden NHS, UK |

**Faculty Academic Appointments**

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Academic Title | Department | Academic Institution |
| 01/2009 - 12/2012 | Adjunct Faculty | Physics and Chemistry | The Alamo Colleges |
| 01/2015 - 12/2017 | Instructor  | Physics | Metropolitan Community College - Blue River |
| 08/2013 - 06/2019 | Assistant Professor | Radiology | University of Missouri–Kansas City |
| 06-2019 – end of employment (09-2019) | Associate Professor | Radiology | University of Missouri–Kansas City |
| 10/2019 - Present | Associate Professor | Radiology | The University of Texas Southwestern Medical School, Dallas, TX |

**Appointments at Hospitals/Affiliated Institutions**

|  |
| --- |
| Past |
| Year(s) | Position Title | Department/Division | Institution |
| 01/2012 - 12/2013 | Radiologic Physics Instructor,  | Radiology | Imaging/Nuclear Medicine Department, VA Central California Health Care System |
| 01/2013 - 12/2017 | Supervisor of Radiation Safety Officer, Diagnostic Medical Physics | Radiology |  Children's Mercy Hospital |
| 01/2013 - 12/2019 | Diagnostic Imaging Medical Physicist | Radiology |  Children's Mercy Hospital |
| Current |
| Year(s) | Position Title | Department/Division | Institution |
| 12/2019 – 02/2023 | Diagnostic Medical Physicist, Radiology/ Medical Physics | Radiology | University of Texas Southwestern Medical Center |
| 01/2020 - Present | Medical Physicist | Nuclear Medicine | Parkland Health and Hospital Systems |
| 02/2023 - Present | Medical Physicist | Radiology | Children's Medical Center of Dallas and Plano |

**Other Professional Positions**

|  |  |  |
| --- | --- | --- |
| Year(s) | Position Title | Institution |
| 2013-2019 | Private consulting physicist | Registered by State of Missouri and Kansas |

**Current Licensure and Certification**

Licensure

|  |  |
| --- | --- |
| Year(s) | State |
| 05/2022 - 05/2026 | Texas Medical Board (Diagnostic Imaging Physics) |
| 05/2022 - 05/2026 | Texas Medical Board (Nuclear Medicine Physics) |

**Board and Other Certification**

|  |  |  |
| --- | --- | --- |
| Year(s) | Specialty | Certifying Organization |
| 2016-Current | Nuclear Medicine Instrumentation | ABSNM |
| 2018-Current | Diagnostic Imaging Physics | ABR |

**Honors and Awards**

|  |  |  |
| --- | --- | --- |
| Year | Name of Honor/Award | Awarding Organization |
| 1999 | Recipient, Dept. of Energy EURLF Fellowship | Argonne National Lab |
| 1999 | Recipient, NSF Travel Grant  | NSF |
| 1999 | Dean's List | ARKANSAS STATE UNIVERSITY |
| 1999 | Winner, ASU Action Fund Award  | ARKANSAS STATE UNIVERSITY |
| 2001 | Winner, MECS Scholarship | ARKANSAS STATE UNIVERSITY |
| 2001 | Recipient, Dept. of Energy EURLF Fellowship  | National Center for Toxicological Research |
| 2003 | Recipient, Terry Hill Fund Scholarship Award | University of Tennessee, Center for International Education |
| 2007 | Winner, Iranian American Medical Association scholarship award | Iranian American Medical Association |
| 2007 | Winner, P.I. Nixon Friends of the Library Student Essay Award, on the history of medicine | P.I. Nixon Friends of the Library |
| 2008 | Winner, Young Investigator Symposium | SW AAPM Meeting, Santa Ana Pueblo, New Mexico |
| 2011 | Winner | Julio C. Palmaz, MD Endowment for Excellence in Radiology Research |
| 2015 | Winner for best presentation | 3rd International Conference on Innovation Challenges in Multidisciplinary Research & Practice (ICMRP), Singapore |
| 2021-2025 | Fulbright Specialist (2021-2025) | U.S State Department |

**Major Administrative/Leadership Positions**

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| --- | --- | --- |
| Year(s) | Position Title | Institution |
| 2017 - 2019 | President | Association of Iranian Physicists in Medicine (AIPM) |
| 2019 - Current | Treasurer | Association of Iranian Physicists in Medicine (AIPM) |
| 2022 - Current | Preceptor of 2 rotations for residents | UTSW |
| 2023 - Current | Lead Physicist | Children’s Health |

**Committee Service (***Member, unless noted otherwise)*

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| --- | --- | --- |
| Year(s) | Name of Committee | Institution/Organization |
| University/Department |
| 2020 - Current | Radioactive Drug Research Committee.  | UTSW |
| 2020 - Current | Radiation Safety Advisory Committee (RSAC)  | UTSW |
| 2020 - Current | Nuclear Medicine Clinical Competency Committee (CCC). | UTSW – Nuclear Medicine Residency Program |
| 2021 - Current | Subcommittee for Human Use Radiation (SHUR).  | UTSW |
| 2022 - Current | Monthly Equipment Committee | Division level (Radiology) |
| National/International |
| 2014 - 2016 | Member | AAPM Working Group on Magnetic Resonance Testing and Quality Assurance |
| 2015 - 2017 | Member | AAPM Working Group for Standards for Quantitative MR Measures |
| 2016 - 2019 | Member | AAPM Task Group 293 - Size Specific Dose Estimate (SSDE) for Head CT |
| 2014 - 2020 | Member | AAPM Pediatric Imaging Subcommittee |
| 2016 - 2021 | Member | AAPM Physics Education Task Force Subcommittee |
| 2014 - 2021 | Member | AAPM Task Group 251 - Survey of Pediatric Fluoroscopic Exposure Rates |
| 2016 - 2022 | Member | RSNA Physics Education Task Force Subcommittee |
| 2022 - 2023 | Ex-officio Member of NMSC as Chair of TG266 | AAPM Nuclear Medicine Subcommittee (NMSC) |
| 2022 - 2023 | Chair | AAPM Task Group No. 266 - Acceptance Test and Quality Control Procedures for Pixelated Gamma Cameras (TG266) |
| 2021 - 2024 | Member | ACR Economics Committee on Medical Physics |
| 2022 - 2024 | Member as RSNA Liaison | AAPM Ethics Coursework Resources Working Group (ECRWG) |
| 2024 - Current | Member | AAPM Task Group No. 266 - Acceptance Test and Quality Control Procedures for Pixelated Gamma Cameras (TG266) |
| 2024 - Current | Member | SNMMI - Scanner Validation and Qualification Committee |
| 2024 - Current | [Member](https://snmmi.org/Web/About/About-SNMMI/Working-Groups/Pediatrics-Outreach-Working-Group/Default.aspx) | SNMMI - Committee on Outreach - Pediatric Working Group |
| 2020 - Current | Member | SNMMI - Physics, Instrumentation & Data Sciences Council |

**Professional Societies**

|  |  |
| --- | --- |
| Dates | Society Name, member |
| 01/2013 - Present | American Association of Physicists in Medicine (AAPM), Member |
| 01/2017 - Present | Society of Nuclear Medicine and Molecular Imaging (SNMMI), Member |
| 07/2024 - Present | Society of Pediatric Radiology (SPR), Member |

**Community Engagement**

|  |  |  |
| --- | --- | --- |
| Year(s) | Role, brief description | Organization or institution |
| 2018 | Judge, 5th Annual Vijay Babu Rayudu Quality & Patient Safety Day radiology resident research competition, | UMKC School of Medicine |
| 2019 | Judge, 6th Annual Vijay Babu Rayudu Quality & Patient Safety Day radiology resident research competition | UMKC School of Medicine |
| 2023 | History of Radiological Imaging booth presentation | UTSW 1st Annual Radiology Futures Program |
| 2024 | Oral presenter and booth presentation | UTSW 2nd Annual Radiology Futures Program |

**Educational Activities**

1. Direct Teaching

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Course Name, Rotation or Session Topic | Role | Number of Instruction hours | Primary Learner Audience (number) | Department or Organization |
| Medical and Graduate School (UME) Course Instruction, Small Group Instruction, Clinical Supervision  |
| 2021 - 2022 | Radiography Rotation | Preceptor | 32 hours | Medical Physics Residents | UTSW Radiology |
| 2021 - Current | Fluoroscopy Rotation | Preceptor | 32 hours | Medical Physics Residents | UTSW Radiology |
| 2021 - Current | Radiation Safety and Protection | Preceptor | 16 hours | Medical Physics Residents | UTSW Radiology |
| Graduate Medical Education (GME) Course Instruction, Small Group Instruction, Clinical Supervision |
| 2013 - 2019 | Radiologic Physics | Physics instructor | 1 per month | Radiology Residents | UMKC School of Medicine Dept of Radiology |
| 2020 - Present | Nuclear Medicine Physics | Physics instructor | 1 per month (13 blocks per year) | Nuc Med Residents | UTSW Dept of Radiology |
| Instructor in Continuing Medical Education (CME), Faculty Development, National Educational Symposia |
| March 2014 | 1st Annual Physics Core Review (National event) | Course organizer and instructor | 40 hours | Radiology Residents | U of Missouri Kansas City School of Medicine Dept of Radiology |
| March 2015 | 2nd Annual Physics Core Review (National event) | Course organizer and instructor | 40 hours | Radiology Residents | U of Missouri Kansas City School of Medicine Dept of Radiology |
| March 2016 | 3rd Annual Physics Core Review (National event) | Course organizer and instructor | 40 hours | Radiology Residents | U of Missouri Kansas City School of Medicine Dept of Radiology |
| March 2017 | 4th Annual Physics Core Review (National event) | Course organizer and instructor | 40 hours | Radiology Residents | U of Missouri Kansas City School of Medicine Dept of Radiology |
| March 2018 | 5th Annual Physics Core Review (National event) | Course organizer and instructor | 40 hours | Radiology Residents | U of Missouri Kansas City School of Medicine Dept of Radiology |
| March 2019 | 6th Annual Physics Core Review (National event) | Course organizer and instructor | 40 hours | Radiology Residents | U of Missouri Kansas City School of Medicine Dept of Radiology |

2. Curriculum Development

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Course Name or Curriculum Product | Role | Purpose | Primary Learner Audience | Organization or Institution |
| 2013 - 2019 | Radiologic Physics | Physics curriculum designer (entire) | 1 hr per month | Radiology Residents | U of Missouri Kansas City School of Medicine Dept of Radiology |
| 2015 - 2019 | Radiologic Physics | Physics curriculum designer (entire) | 1 hr per month | Radiology Residents | Kansas University School of Medicine Dept of Radiology |
| 2022-Current | Nuclear Medicine Physics | Physics curriculum designer (entire) | ~1hr per month (13 blocks per year) | Nuclear Medicine Residents | UTSW |

3. Mentoring and Advising

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Date | Mentee Name | Mentee Level/ Program and Institution | Role | Mentee Outcomes, Current Position |
| June 2018 - Aug 2018 | Teresa M. Yuhas | AAPM Summer Undergraduate (DREAM) Fellowship Program | AAPM fellow mentor | I helped her co-author RSNA Physics module: “Ultrasound – Concepts and Transducers” ([Link](https://education.rsna.org/diweb/catalog/item/eid/1349659884)) |
| 2018 | Kirang Patel, MD (now a faculty at UTSW Radiology Dept) | Radiology Resident | mentor | “Initial Experience Implementing an Expansive Physics Course for Teaching Imaging Physics to Radiology Residents.” [Medical Physics, 45 (6), 2018, E199-E199](https://doi.org/10.1002/mp.12938) |
| May 2019 - July 2019 | Gabrielle R. Moss | AAPM Summer Undergraduate (DREAM) Fellowship Program | AAPM fellow mentor | PhD student at Thayer School of Engineering, Dartmouth |
| 2023 | Jin Cheung, MD | Nuclear Medicine Resident | mentor | Culminating project for Nuc Med residency training |

4. Learner Assessment Activities or Tool Development

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Online Course Name | Role | No of Eval Hrs | Primary Learner Audience | Organization or Institution |
| 2018 | Basic Concepts in Radiography | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2018 | Basic Principles of Nuclear Magnetic Resonance | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2018 | Interactions of Radiation and Tissue | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2018 | MRI: Image Artifacts | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2018 | MRI: Image Formation | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2018 | PET/PET-CT/Image Quality | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2018 | Radiation Dose and Risk | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2018 | Ultrasound – Concepts and Transducers | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2019 | Gamma Cameras / Image Quality | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2019 | Image Display | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2019 | Imaging Gently: Medical Imaging and Radiation Protection of Pediatric Patients  | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2019 | MRI: Image Characteristics | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2019 | MRI: Pulse Sequences | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2019 | Radiation Detection Instrumentation in Nuclear Medicine Practice | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2019 | Radiation Dose in CT | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2019 | X-Ray Tubes and Spectra | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2019 | Ultrasound Image Acquisition and Doppler Ultrasound | Contributor | 1 | Dx resident | RSNA ([acknowledgement letter](https://cdn.rsna.org/education/Resources/PhysicsModules.pdf)) |
| 2022 | Fluoroscopy Basics: Fluoroscopy Systems and Components | Author | 1 | Dx resident | UTSW Radiology educational modules |
| 2022 | Flat Panel Fluoroscopy | Author | 1 | Dx resident | UTSW Radiology educational modules |

5. Educational Administration and Leadership

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Date | Title | Responsibilities  | Time (FTE or hours) | Organization and Program Scope | Outcomes |
| 2013-2019 | Curriculum adviser | Creating and maintaining the Physics curriculum | 1hr /month | UMKC Radiology residency program | ABR core exam |

**Grant Review Activities**

|  |  |  |
| --- | --- | --- |
| Year(s) | Name of Review Committee | Organization |
| 2021-Current | Subcommittee for Human Use of Radiation in Research (reviews all IRBs involved with ionizing radiation imaging) | UTSW |

**Editorial Activities**

|  |  |
| --- | --- |
| Year(s) | Journal Name |
| Ad Hoc Reviewer |
| 2018 - 2019 | Pediatric Radiology |
| 2023 - Current | JACMP |

**Grant Support**

|  |  |
| --- | --- |
| Active |  |
| 2025- Current | Grantor: ACR (in process of submitting) |
|  | Title of Project: Pediatric AI/Federated Learning (PI: Jeannie Kwon) STU2025-0611 |
|  | Role: Co-investigator |
|  | $0 |

|  |  |
| --- | --- |
| Past |  |
| 2007-2010 | Enhanced Vascular Imaging Agents, NIH/NIBIB, Role: Co-investigator, $54,941 (Study: 5R21EB003600-02) |
| 2014-2017 | GE DTS Airway Phantom, GE Healthcare, Role: Co-investigator, $60,000 |
| 2015-2020 | UCSF CT Radiation Dose Registry: Partnership for Dose (IRB#15070292), NIH-PCORI, Role: Site PI, $20,000 |
| 2016-2020 | CT Dose Collaboratory (IRB#15100486), NIH-PCORI, Role: Site PI, $20,000 |

**Clinical Trials Activities**

|  |  |
| --- | --- |
| Past |  |
|  | Grantor: NIH RSB-181191 R01CA181191 (U.S. NIH Grant/Contract ). ClinicalTrials.gov Identifier: NCT03000751. |
|  | Title of Project: CT DOSE Collaboratory. Comparison of the Effectiveness of Single-Component and Multicomponent Interventions for Reducing Radiation Doses in Patients Undergoing Computed Tomography: A Randomized Clinical Trial |
|  | Role: Site PI |
|  | 2016-2020 |

**Invited Lectures**

|  |  |  |
| --- | --- | --- |
| Year(s) | Title | Location |
| International |
| 2015 | The Role of The Imaging Medical Physicist in Providing Clinical Guidance for Patient Care Improvement | The 3rd International Conference on “Innovation Challenges in Multidisciplinary Research & Practice” (ICMRP -2015), Singapore. |
| 2015 | Radiation and Risks in Pediatric Imaging: Approaches to Optimized Communication.  | The 3rd International Conference on “Innovation Challenges in Multidisciplinary Research & Practice” (ICMRP -2015), Singapore. |
| National |
| 2015 | “Medical Physics: An Alternative Pathway”.  | Physics Department, Truman State University. Kirksville, MO. |
| 2017 | Efforts to reduce radiation dose: The role of the medical physicist in optimizing radiographic doses.  | The Radiology Directors Forum, Children’s Hospital Association (CHA), Indianapolis, IN. |
| 2018 | An update on MRI Contrast Media Safety for Pediatrics.  | Dept of Radiology. University of Toledo Medical Center, Ohio |
| 2018 | The application of radiography and CT in cultural heritage | CIPG. Duke University Medical Center. Durham, North Carolina |
| 2018 | Diagnostic Imaging Medical Physics: A career update  | Physics Department, Truman State University. Kirksville, MO |
| 2019 | Pediatric Nuclear Medicine: A Physicist’s Perspective on Clinical Imaging.  | AAPM Spring Clinical Meeting, Kissimmee, Florida |
| 2025 | ABC’s of Radiopharmaceuticals: Applications, Best Practices, and Clinical Considerations | Vizient Center for Pharmacy Practice Excellence. Vizient Inc. May 15, 2025 ([link](https://events.vizientinc.com/index.cfm?fuseaction=reg.info&event_id=18391)) |
| Regional/Local |
| 2014 | Fluoroscopy and the technologist's role in reducing radiation exposure. | Missouri Society of Radiologic Technologists (MoSRT) District 1 and Kansas Society of Radiologic Technologist (KSRT) joint fall conference. St Joseph Medical Center, Kansas City. |
| 2014 | Radiation exposure and what you should tell your patients. | Missouri Society of Radiologic Technologists (MoSRT) District 1 and Kansas Society of Radiologic Technologist (KSRT) joint fall conference. St Joseph Medical Center, Kansas City. |
| 2015 | Radiation Protection Mistakes in Radiography Imaging: What am I Doing Wrong? | Kansas Society of Radiologic Technologists (KSRT) 78th annual meeting. Prairie Band Casino & Resort, Mayetta, Kansas. |
| 2015 | Radiation exposure and what you should tell your patients.  | Missouri Society of Radiologic Technologists (MoSRT) 83rd annual conference. Columbia, MO |
| 2015 | Fluoroscopy and the technologist's role in reducing radiation exposure.  | Missouri Society of Radiologic Technologists (MoSRT) 83rd annual conference. Columbia, MO |
| 2015 | Techniques for communicating radiation exposure risk with your patients.  | The 48th Annual Clinical Advances in Pediatrics Symposium (CAPS), Kansas City, MO |
| 2016 | Optimizing Image Quality While Reducing Radiation Dose | Kansas Society of Radiologic Technologist and Missouri Society of Radiologic Technologist (MoSRT) District 1 Meeting. Lawrence Memorial Hospital. Lawrence, KS |
| 2018 | Are your acquisition and diagnostic display monitors up to the task? | Missouri Society of Radiologic Technologist (MoSRT) District 1 Meeting. St. Luke’s Northland Hospital. Kansas City, MO. |
| 2018 | Aiming for ACR Ultrasound Accreditation and Beyond. | Missouri Society of Radiologic Technologist (MoSRT) District 1 Meeting. Oct 19-20, 2018. St. Luke’s Northland Hospital. Kansas City, MO. |
| 2019 | Everything you ever wanted to know about ACR Ultrasound Accreditation”.  | Missouri Society of Radiologic Technologist (MoSRT) 87th Annual Meeting. Columbia, MO. |
| 2019 | A Closer Look at Pediatric Nuclear Medicine: Strategies to improve your image quality while keeping your doses down | Missouri Society of Radiologic Technologist (MoSRT) 87th Annual Meeting. Columbia, MO. |
| 2020 | Points of Distinction between Adult and Pediatric Nuclear Medicine from a Physics Perspective | SWAAPM, Grapevine TX ([Link](https://web.cvent.com/event/ba73664d-fc8c-4e04-b6ac-c20e091bf34c/websitePage%3A4df26779-5474-4509-8251-219fafcd0642)) |
| 2020 | Radiation Safety: Patient Shielding in Diagnostic Radiology, CT Dose Benchmarking and Fluoroscopy Training | Association for Medical Imaging Management – AHRA, Dallas TX |
| 2022 | Physicist things that you can do to keep your PET scanner happy | SNMMI SW Chapter ([Link](https://swc-snmmi.org/2022ftm)) |
| 2022 |  An Overview of Nuclear Medicine Physics | Tarrant Community College Nuclear Medicine Technologist Program. Fort Worth, TX |
| 2023 | 10 Things about Nuclear Medicine Physics that you thought you knew but maybe you didn’t | Tarrant Community College Nuclear Medicine Technologist Program. Fort Worth, TX |

**Bibliography**

**Peer-Reviewed Publications**

Original Research Articles

|  |  |
| --- | --- |
|  | **Kasraie N**, Oviatt HW, Clarke GD. On the use of molecular weight cutoff cassettes to measure dynamic relaxivity of novel gadolinium contrast agents: example using hyaluronic Acid polymer complexes in phosphate-buffered saline. **Radiology Research and Practice**. **2011:** 808795. <https://doi.org/10.1155/2011/808795>. PMID: 22191030; PMCID: PMC3236320. |
|  | **Kasraie N**, Mah P, Keener CR, Clarke GD. Characterization of atherosclerotic plaque: a contrast-detail study using multidetector and cone-beam computed tomography. **Journal of Applied Clinical Medical Physics**. **2014** Jan 6;15(1):4308. <https://doi.org/10.1120/jacmp.v15i1.4308>. PMID: 24423833; PMCID: PMC5711236. |
|  | Shah S, Desouches SL, Lowe LH, **Kasraie N**, Reading B. Implementation of a competency check-off in diagnostic fluoroscopy for radiology trainees: impact on reducing radiation for three common fluoroscopic exams in children. **Pediatric Radiology**. **2015** Feb;45(2):228-34. <https://doi.org/10.1007/s00247-014-3108-8> PMID: 25056230. |
|  | **Kasraie N**, Robinson A, Chan S. Construction of an Anthropomorphic Phantom for Use in Evaluating Pediatric Airway Digital Tomosynthesis Protocols. **Radiology Research and Practice**. **2018** Apr 18;2018:3835810. <https://doi.org/10.1155/2018/3835810>. PMID: 29850245; PMCID: PMC5932438. |
|  | **Kasraie N**, Jordan D, Keup C, Westra S. Optimizing Communication With Parents on Benefits and Radiation Risks in Pediatric Imaging. **Journal of the American College of Radiology**. **2018** May;15(5):809-817. <https://doi.org/10.1016/j.jacr.2018.01.032>. PMID: 29555251. |
|  | Smith-Bindman R, Chu P, Wang Y, Chung R, Lopez-Solano N, Einstein AJ, Solberg L, Cervantes LF, Yellen-Nelson T, Boswell W, Delman BN, Duong PA, Goode AR, **Kasraie N**, Lee RK, Neill R, Pahwa A, Pike P, Roehm J, Schindera S, Starkey J, Suntharalingam S, Jeukens CRLPN, Miglioretti DL. Comparison of the Effectiveness of Single-Component and Multicomponent Interventions for Reducing Radiation Doses in Patients Undergoing Computed Tomography: A Randomized Clinical Trial. **JAMA Internal Medicine**. **2020** May 1;180(5):666-675. <https://doi.org/10.1001/jamainternmed.2020.0064>. PMID: 32227142; PMCID: PMC7105953. |
|  | Russell G, **Kasraie N**, Noel-MacDonnell J, Robinson AL, Chan SS. Identification of aspirated radiolucent foreign bodies in the pediatric airway using digital tomosynthesis: a multireader phantom study. **Journal of Medical Imaging**. **2020** Sep;7(5):055502. <https://doi.org/10.1117/1.JMI.7.5.055502> PMID: 37476354; PMCID: PMC10355125. |
|  | Arar Y, Dimas VV, Nugent AW, Hussain T, **Kasraie N**, Reddy SRV, Zellers TM, Herbert C. Pre-procedural CT imaging aids neonatal PDA stenting for ductal-dependent pulmonary blood flow with reduction in overall procedural morbidity. **Cardiology in the Young**. **2021** Oct 19:1-6. <https://doi.org/10.1017/s1047951121004133>. PMID: 34663483. |
|  | Chu PW, Yu S, Wang Y, Seibert JA, Cervantes LF, **Kasraie N**, Chu CA, Smith-Bindman R. Reference phantom selection in pediatric computed tomography using data from a large, multicenter registry. **Pediatric Radiology**. **2022** Mar;52(3):445-452. <https://doi.org/10.1007/s00247-021-05227-0> PMID: 34866159; PMCID: PMC8857172. |
|  | Bos D, Yu S, Luong J, Chu P, Wang Y, Einstein AJ, Starkey J, Delman BN, Duong PT, Das M, Schindera S, Goode AR, MacLeod F, Wetter A, Neill R, Lee RK, Roehm J, Seibert JA, Cervantes LF, **Kasraie N**, Pike P, Pahwa A, Jeukens CRLPN, Smith-Bindman R. Diagnostic reference levels and median doses for common clinical indications of CT: findings from an international registry. **European Radiology**. **2022** Mar;32(3):1971-1982. <https://doi.org/10.1007/s00330-021-08266-1> PMID: 34642811; PMCID: PMC8831291. |
|  | Sadeghi F, Sheikhzadeh P, **Kasraie N**, Farzanehfar S, Abbasi M, Salehi Y, Ay M. Phantom and clinical evaluation of Block Sequential Regularized Expectation Maximization (BSREM) reconstruction algorithm in 68Ga-PSMA PET-CT studies. **Physical and Engineering Sciences in Medicine. 2023** Sep;46(3):1297-1308. <https://doi.org/10.1007/s13246-023-01299-4>. PMID: 37439965. |
|  | Kamrani S, **Kasraie N**, Jahangiri F, Khezerloo D, Sheikhzadeh P. (**2023**). Organ doses, effective dose, and cancer risk estimation from head and neck CT scans. **Radiation Physics and Chemistry**, 212. <https://doi.org/10.1016/j.radphyschem.2023.111163>. |
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