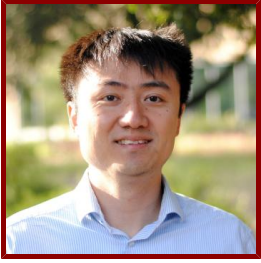


Stanford



Jia Wang

Medical/Radiation Physicist, Environmental Health and Safety (EH&S)

Bio

BIO

I am the head of the Diagnostic Medical Physics group at Environmental Health and Safety department. Our group support medical imaging services for Stanford Health Care, Lucille Packard Children's Hospital, and Veterans Affairs Palo Alto Health Care System. The scope of our work includes:

- Radiation safety of diagnostic x-ray imaging practice to ascertain the compliance of State and Federal regulations, Joint Commission recommendations, and University policies
- Quality control program of diagnostic X-ray imaging practice (Computed tomography, Interventional Radiology, Fluoroscopy and Radiography): accreditation, continuous quality control procedures
- Radiation dose monitoring and CT protocol optimization; Work with each clinical section on task-specific CT Dose and Image Quality optimization by utilizing our state-of-the-art CT equipment and novel iterative reconstruction techniques
- Review proposed research uses of x-rays in human subjects for Stanford IRB: evaluate doses and estimate risks and advise research investigators on radiation safety issues and how to solve related problems.
- Staff and trainee education on topics including CT technology, CT dose optimization, Fluoroscopy dose optimization, and radiation risk from ionizing imaging exams
- Support clinical innovation projects and activities that can be readily translated to patient care in Stanford health care system

HONORS AND AWARDS

- People's Scholarship, Nanjing University (2000-2003)
- Editor's recognition award, 'Radiology' for Reviewing (2011)

EDUCATION AND CERTIFICATIONS

- Board Certification, American Board of Radiology , Diagnostic Medical Physics (2014)
- Ph.D., Dartmouth College , Physics / Biomedical Imaging (2009)
- B.S., Nanjing University , Physics (2003)

Professional

WORK EXPERIENCE

- Research fellow - Mayo Clinic (5/2009 - 4/2012)

PROFESSIONAL AFFILIATIONS AND ACTIVITIES

- Member of Task Group No. 233 - Performance Evaluation of Computed Tomography Systems, American Association of Physicists in Medicine (AAPM) (2013 - 2019)
- Vice Chair of Alliance for Quality Computed Tomography Working Group, American Association of Physicists in Medicine (AAPM) (2017 - present)
- Member of Medical Physics Clinical Committee, American Board of Radiology (2019 - present)
- Voting Member of Task Group No. 257 - MPPG #6 Selection of a Patient Dose Monitoring System, American Association of Physicists in Medicine (AAPM) (2013 - 2017)
- Voting Member of TG 220 Determination of a Patient Size Metric for CT Size Specific Dose Estimation, American Association of Physicists in Medicine (AAPM) (2012 - 2014)

Publications

PUBLICATIONS

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2021
- **Performance Evaluation of Computed Tomography Systems: Summary of AAPM Task Group 233.** *Medical physics*
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- **Ferumoxetyl-enhanced MRI for surveillance of pediatric cerebral arteriovenous malformations.** *Journal of neurosurgery. Pediatrics*
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- **Computed Tomography Angiography A Review and Technical Update** *RADIOLOGIC CLINICS OF NORTH AMERICA*
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- **Bismuth Shields for CT Dose Reduction: Do They Help or Hurt?** *JOURNAL OF THE AMERICAN COLLEGE OF RADIOLOGY*
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