

CURRICULUM VITAE

Khachig A. Jerjian, Ph.D.

KJ Medical Physics
14 Glen Abbey
Trabuco Canyon, CA 92679

kjmedicalphysics@gmail.com

TELEPHONE: (949)683-5215

STATUS: Married, One daughter.

EDUCATION: Louisiana State University, Baton Rouge, Louisiana
Ph.D. in Physics – July 1984

PROFESSIONAL CREDENTIALS AND CERTIFICATIONS:

American Board of Radiology

Certified in Diagnostic Radiological Physics - June 1992

California Department of Health Services

Qualified Mammography Physicist - August 1992

Colorado Department of Health, Radiation Control Division

Qualified Inspector/Medical Physicist - October 1991

PROFESSIONAL EXPERIENCE:

1992 - Present *Employer:*
Hoag Memorial Hospital
Department of Radiology
One Hoag Drive
Newport Beach, CA 92658

Title:
Diagnostic Radiology Physicist & Radiation Safety Officer (RSO)

Responsibilities:

Responsible physicist for Diagnostic Radiology and Nuclear Medicine, including PET, CT, MRI, Ultrasound, Mammography and Cardiology. Diagnostic radiology equipment calibration and radiation safety surveys for two hospital and associated imaging centers, including over ninety x-ray tubes, twenty digital mammography units, eight Cardiology Cathlabs, seventeen CT scanners, fifteen MRI units, eight SPECT/Gamma Cameras, two PET/CT scanners and a PET/MRI scanner. Compliance with regulatory agency and state RHB requirements. Mammography performance evaluation. State and Federal MQSA compliance surveys.

Supervision of department of radiology quality control program, including patient and personnel dose assessment. Hoag Memorial Hospital and Hoag Cancer Center RSO. Supervise use of radioactive materials. Management and supervision of hospital radiation safety program. Nuclear medicine quality assurance and licensing responsibilities. X-ray room shielding design and evaluation responsibilities. Radiographic and imaging equipment specifications and acceptance testing. MRI performance evaluation, quality assurance and American College of Radiology (ACR) MRI, CT, Nuclear Medicine and PET accreditation program services. Radiation safety supervision of in-patient and out-patient I-131 thyroid cancer therapies, including Y-90 Sirtex SirSpheres and TheraSphere therapies, Lu-177 Lutathera therapies and Monoclonal Antibody Bexxar and Zevalin research therapy protocols.

1995 - Present

Employer:

Various imaging facilities and imaging centers in Southern California

Title:

Consultant Medical Physicist and RSO

Responsibilities:

Diagnostic radiology equipment calibration and radiation safety surveys. Mammography performance evaluations, State and Federal MQSA compliance surveys. Supervision of mammography technologist quality control program. RSO responsibilities including supervision of Nuclear Medicine and PET quality assurance and licensing responsibilities. MRI, PET, CT and Nuclear Medicine ACR accreditation program services.

1988 - 1992

Employer:

University of Colorado Health Sciences Center
Division of Radiological Sciences
Department of Radiology
4200 East Ninth Avenue
Denver, CO 80262

Title:

Assistant Professor

Academic Responsibilities at UCHSC:

Assistant professor in graduate medical physics program. Radiological physics research. Teaching graduate level radiological physics courses. Radiological physics and board review for radiology residents at University Hospital and at Fitzsimons Army Medical Center.

Responsibilities at University Hospital, Denver, CO:

CT/MR physicist at University Hospital (1988-1992).

Responsibilities at Humana Hospital Mountain View, Thornton, CO:

Consultant Medical Physicist at Humana Hospital Mountain View (1987 - 1992). Diagnostic radiology equipment calibration and radiation safety

surveys. Compliance with state and regulatory agency requirements. Nuclear medicine quality assurance and licensing responsibilities.

- 1986 - 1988 NIH Postdoctoral fellow in Medical Physics, Department of Radiology, Division of Radiological Sciences, University of Colorado Health Sciences Center, Denver, Colorado.
- 1984 - 1986 NSF Postdoctoral fellow, Department of Physics, University of Nebraska, Lincoln, Nebraska.

MEDICAL PHYSICS RELATED APPOINTMENTS:

- Member, AAPM “Diagnostic Work & Workforce Study Subcommittee” (2008-2011)
- Member, AAPM Task Group 151 “Radiographic System Quality Control” (2007-2010)
- Member, AAPM Magnetic Resonance Imaging Committee (2004-2007)
- Member, AAPM Task Group No. 110 “CT Noise Metrics” (11/22/2004)
- Member, AAPM Diagnostic X-Ray Imaging Committee (2001-2003)
- Member, AAPM Radiation Safety Committee (1997-1999, 2004-2009)
- Radiation Safety Officer - Hoag Memorial Hospital & Newport Imaging Center
- Chairman, Hoag Hospital Radiation Safety Committee

PROFESSIONAL SOCIETY MEMBERSHIP:

- American Association of Physicist in Medicine (1988 to Present).
- American College of Radiology (1992).
- Society for Magnetic Resonance Imaging (1987).

POST GRADUATE EDUCATION IN MEDICAL PHYSICS:

- Imaging Applications Platform - IAP Programming, IAP Training Course: February 1993, ISG Technologies Inc., Toronto, Canada.
- MRI Pulse Programming, GE Signa 4.x PPL Course: September 1990, GE Medical Systems, Milwaukee, Wisconsin.
- National Cancer Institute Workshop on the Histopathobiology of Cancer: June 1987, Keystone, Colorado.

TEACHING EXPERIENCE:

- Radiological Physics and Board Review for Radiology Residents, University Hospital, Denver, Colorado (1989-1992).
- Radiological Physics, graduate level courses for medical physicists, University of Colorado Health Sciences Center, Department of Radiology, Division of Radiological Sciences, Denver, Colorado (1988-1992).
- Radiation protection in-services for nurses, physicians and radiology personnel (1988 - present).

TECHNICAL REPORTS:

- K. Jerjian and R.P. Rossi, "Optimization of beam filtration in mammography. Part I - Molybdenum targets", GE Medical Systems, 1987.
- K. Jerjian and R.P. Rossi, "Optimization of beam filtration in mammography. Part II - Tungsten targets", GE Medical Systems, 1987.

PUBLICATIONS:

- K. Jerjian and R.J.W. Henry, "Energy-modified frame-transformation theory", Bull. Amer. Phys. Soc., Vol. 29, 802(1984).
- K. Jerjian and J. Macek, "Adiabatic hyperspherical treatment of the HD⁺ molecule", Bull. Amer. Phys. Soc., Vol. 30, 883(1985).
- K. Jerjian and R.J.W. Henry: "Energy-modified frame-transformation theory", Phys. Rev. **A31**, 585(1985).
- K. Jerjian and R.J.W. Henry, "Collision Strengths for CII", XIV International Conference on the Physics of Electronic and Atomic Collisions, Abstracts of Contributed Papers, p. 294, 1985.
- K. Jerjian and J. Macek, "Hyperspherical treatment of HD⁺", Bull. Amer. Phys. Soc., Vol. 31, 948 (1986).
- K. Jerjian and J. Macek: "Adiabatic hyperspherical treatment of HD⁺", Phys. Rev. **A33**, 233 (1986).
- J. Macek, M. Cavagnero and K. Jerjian: "Bypassing translation factors in molecular dissociation and reactions", Phys. Rev. **A35**, 3940 (1987).
- K. Jerjian and J. Macek: "Hyperspherical treatment of three-body molecular states", Phys. Rev. **A36**, 2667 (1987).
- L. Eastwood, R.E. Hendrick and K. Jerjian, "Tissue contrast in both 'FID' and 'ECHO' steady-state MR Imaging", Magnetic Resonance Imaging, Vol. 6, Supp. 1, 91 (1988).

- D. Thickman, R.E. Hendrick, K. Jerjian and C. Schanker, "Effect of Superparamagnetic Iron Oxide Concentration and Magnetic Field Strength on Liver-Lesion MR Image Contrast", *Magnetic Resonance Imaging*, Vol. 8, Supp. 1, 44 (1990).
- D. Thickman, R.E. Hendrick, K. Jerjian and C. Schanker, "Liver-lesion tissue contrast on MR images: effect of iron oxide concentration and magnetic field strength", *Radiology* **176**(2), 557 (1990).
- K. Jerjian, B.I. Goshorn, R.E. Hendrick, B.R. Westerman and D. Thickman, "Performance Evaluation of Helical Volumetric CT Scanning", *Radiology* **181**(P), 111 (1991).
- K. Jerjian and M.N. Brant-Zawadzki, "Radiation Dose in Coronary Calcium Scoring: Comparison of Multi-Slice and Electron Beam CT Scanners", *Radiology* **221**(P), 365 (2001).

REFERENCES: Available on request.

Louisiana State University

and

Agricultural and Mechanical College

On the nomination of the Faculty of the

Graduate School

has conferred upon

Khachig A. Terjian

the degree of

Doctor of Philosophy

with all the Honors, Rights and Privileges to that degree appertaining.

In Testimony Whereof, the seal of the University and the signatures as authorized

by the Board of Supervisors are hereunto affixed. Given at Baton Rouge, Louisiana

August fourth, nineteen hundred and eighty-four.

Ruth Loyd Miller
Chairman of the Board of Supervisors

J. P. Woodin
President



James H. Marton
Chancellor

William J. Boyer, Jr.
Dean

The American Board of Radiology

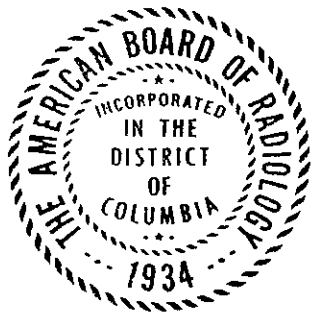
*Organized through the cooperation of the
American College of Radiology, the American Roentgen Ray Society,
the American Radium Society, the Radiological Society of North America,
the Section on Radiology of the American Medical Association,
the American Society for Therapeutic Radiology and Oncology, the Association of
University Radiologists, and American Association of Physicists in Medicine
Hereby certifies that*

Khachig A. Terjian, Ph.D.

*Has pursued an accepted course of graduate study
and clinical work, has met certain standards and qualifications and
has passed the examinations conducted under the authority of
The American Board of Radiology*

On this fourth day of June, 1992

*Thereby demonstrating to the satisfaction of the Board
that he is qualified to practice the specialty of
Diagnostic Radiological Physics*



Thomas F. McManus, M.D.
President

Douglas Maynard, MD
Secretary-Treasurer

James L. Grubb, M.D.
Executive Director





Verification of Certification and Maintenance of Certification (MOC)

March 9, 2017

Name: Dr. Khachig A. Jerjian

Practice Locations: Newport Beach, CA

Certificate	Status	Valid Through	Maintenance	MOC Requirements
Diagnostic Medical Physics	Valid	03/02/2052	Not Required	Not Required

The most current certificate and MOC public reporting status information can be accessed at any time for Dr. Khachig A. Jerjian by entering the required information in the 'Verify board certification status' search on the ABR website at www.theabr.org.

For questions regarding the ABR MOC Program or its participation requirements, please contact the board office at (520) 519-2152 or info@theabr.org.

Sincerely,

American Board of Radiology

*Validity of certification is contingent upon participation in Maintenance of Certification. The ABR recommends verification of certification be repeated annually, three business days after the ABR's March 2nd annual review.