

Zahra Jomehzadeh

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Personal information

First Name: Zahra

Last Name: Jomehzadeh Mahani

Birth Date: 5/6/1974

Marital status: Married

Contact Information

Department of Medical Physics, Medical School, Kerman University of Medical Sciences,
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Educational History

1997– 2001

☐ **M. Sc:** Medical Physics. Dept., Isfahan University of Medical Sciences,
Isfahan, Iran.

☐ **Major:** Medical Physics

☐ **Title of Thesis:** Comparison of Megavoltage Photon and Electron Beams Using Dosimetry
Protocols: TRS-398, TRS-381, TRS-277, TG-21 and TG-51

☐ **Research Advisors:**

Dr. Parvaneh Shokrani,

Associated professor, Medical Physics Department, Isfahan University of Medical Sciences,
Isfahan, Iran.

Email:Shokrani14@yahoo.com

1993–1997

☐ **B. Sc:** Physics. Dep., Shahid Bahonar University of Kerman, Kerman, Iran.

☐ **Major:** Applied Physics

Academic Appointments

Year

2003-present

Academic Rank

Instructor of Medical Physics

Institute

Kerman Uni Med Sci

Research Interests

• Radiation Therapy

• Medical Dosimetry

☐ IAEA Protocols in Radiotherapy

☐ AAPM Protocols in Radiotherapy

• Radiation Protection

☐ Radiation Protection in Medical Radiation

☐ Environmental Radiation Protection

Publications

- 1- Jomehzadeh Z, **Jomehzadeh A. Comparison of Megavoltage Electron Dosimetry Beams in Radiation Therapy Using Different Protocols.** *KMU Journal*, 2023 (*Scientific Acceptance*).
- 2- **Jomehzadeh Z, Jomehzadeh A, Tavakoli MB. Quality Control Assessment of Radiology Devices in Kerman Province, Iran.** *Iran J Med Phys*, 2016; 13(1): 25-35
- 3- Jomehzadeh E, Saidi AR, **Jomehzadeh Z**, Bonaccorso F, Palermo V, Galiotis C, Pugno NM. **Nonlinear subharmonic oscillation of orthotropic graphene-matrix composite.** *Computational Materials Science*, 99, 2015.
- 4- Jomehzadeh A, **Jomehzadeh Z**, Gholami M. **Survey of Sodium Iodide-131 Contamination at Nuclear Medicine Department in Shafa Kerman Hospital.** 1st Research Festival of the Radiological Students, Shiraz, Iran, 2010.
- 5- Jomehzadeh A, **Jomehzadeh Z**, Gholami M. **Gamma Dose Rate Measurement in Bibihayat Region of Rafsanjan.** The 9th Iranian Congress of Medical Physics, Tehran, 2010.
- 6- **Jomehzadeh Z, Jomehzadeh A, Gholami M. Gamma Dose Rate Measurement and Dose Rate Calculation for Sensitive Organs in the Vicinity of Hot Springs in Kerman Province.** The 9th Iranian Congress of Medical Physics, Tehran, 2010.
- 7- Jomehzadeh A, **Jomehzadeh Z. Gamma Dose Rate Measurement and Dose Rate Calculation for Sensitive Organs in the Vicinity of Hot Springs in Kerman Province.** *Iranian Journal of Medical Physics*; 5(2), 2009.
- 8- **Jomehzadeh Z, Jomehzadeh A. Indoor Radiation Leakage from Treatment Room of Nepton-10PC in Sahfa Hospital of Kerman.** Radiation Protection Congress, Tehran, 2009.
- 9- Jomehzadeh A, **Jomehzadeh Z. Natural Radiation Evaluation in Vicinity of Bardsir, Zarand and Jiroft Hot Springs in Kerman Province.** The 8th Iranian Congress of Medical Physics, Tehran, 2008.
- 10- Jomehzadeh A, **Jomehzadeh Z.** Comparison of Background Radiation Before and After the Bam Earthquake. The 6th Congress of the Iranian Radiological Sciences Association, Shiraz, Iran, 2008.
- 11- Shokrani P, **Jomehzadeh Z. Reference Dosimetry for Megavoltage Electron Beams in Radiotherapy Using New IAEA and AAPM Dosimetry Protocols.** The 5th Iranian Congress of Medical Physics, Tehran, 2002.
- 12- Shokrani P, **Jomehzadeh Z. Comparison of AAPM TG-21 and TG-51 Protocols, IAEA 1987 (TRS-277), 1966 (TRS-381) and 2000 (TRS-398) Codes of practice for dosimetry calibration of Radiotherapy x rays and electron beams.** Recent Developments in Accurate Radiation Dosimetry Congress, Montreal, Canada, 2001.

Experience

Teaching:

- 2003-2011, "**General Physics**" to students of Radiology, Kerman University of Medical Sciences.
- 2003-2011, "**Applied Physics**" to students of Laboratory Sciences, Kerman University of Medical Sciences.
- 2003-2011, "**General Physics**" to students of Laboratory Sciences, Kerman University of Medical Sciences.
- 2003-2011, "**Anesthesia Physics**" to students of Anesthesia, Kerman University of Medical Sciences.
- 2003-2011, "**Medical Physics**" to students of Operation Room, Kerman University of Medical Sciences.
- 2010-2011, "**Radiation Physics**" to students of Radiology, Kerman University of Medical Sciences.
- 2009-2011, "**Radiation Diagnostics Physics**" to students of Radiology, Kerman University of Medical Sciences.
- 2003-2011, "**General Physics**" to students of General Health, Kerman University of Medical Sciences.
- 2003-2011, "**General Physics**" to students of Environmental Health, Kerman University of Medical Sciences.
- 2003-2011, "**General Physics**" to students of General Health, Kerman University of Medical Sciences.
- 2003-2011, "**General Physics 1**" to students of Professional Health, Kerman University of Medical Sciences.
- 2003-2011, "**General Physics 2**" to students of Professional Health, Kerman University of Medical Sciences.
- 2003-2011, "**General Physics**" to students of Family Health, Kerman University of Medical Sciences.
- 2003-2011, "**Special Physics 1**" to students of Professional Health, Kerman University of Medical Sciences.
- 2003-2011, "**Special Physics 2**" to students of Professional Health, Kerman University of Medical Sciences.
- 2003-2011, "**Special Physics**" to students of Professional Health, Kerman University of Medical Sciences.
- 2010-2011, "**Physics for Physiotherapist**" to students of Professional Health, Kerman University of Medical Sciences.

Workshops:

- 2010 2 Days " **Quality Assurance in Radiotherapy with Emphasis on Preventing Unintended Exposure**" IAEA, Tehran, Iran.
- 2008 1 Day " **Course Plane**" Kerman University of Medical Sciences. Kerman. Iran.
- 2008 1 Day " **Principles of Article Writing**" Kerman University of Medical Sciences. Kerman. Iran.
- 2008 1 Day " **Poster Planning**" Kerman University of Medical Sciences. Kerman. Iran.
- 2008 1 Day " **Advanced Research Methodology**" Kerman University of Medical Sciences. Kerman. Iran.
- 2007 1 Day " **Principles of Questionnaire Planning**" Kerman University of Medical Sciences. Kerman. Iran.
- 2007 2 Days " **Physics of Medical Accelerators**" Shahidbeheshti University of Medical Sciences, Tehran, Iran.
- 2006 3 Days " **Teaching Method, Evaluation Method and Question Planning**" Kerman University of Medical Sciences, Kerman, Iran.
- 2006 1 Day " **Educational Objectives & Educational Curriculum**" Rafsanjan University of Medical Sciences, Rafsanjan, Iran.
- 2006 2 Days " **Scientific and Educational Advisory**" Yazd University of Medical Sciences, Yazd, Iran.
- 2006 1 Day " **Medical Ethics**" TUMS, Tehran, Iran.

2006 2 Days " **Revolution an Medical Education**" Shahidbeheshti University of Medical Sciences, Tehran, Iran.

2006 2 Days " **Scientific Writing**" Iran University of Medical Sciences, Tehran, Iran.

2006 1 Day " **Primary Statistics & Research Methodology**" Mazandaran University of Medical Sciences, Sari, Iran.

2006 1 Day " **Advanced Statistics & Research Methodology**" Mazandaran University of Medical Sciences, Sari, Iran.

2006 1 Day " **Electronic Resources**" Mashhad University of Medical Sciences, Mashhad, Iran.

2006 1 Day " **Writing a curriculum Vita**" Kerman University of Medical Sciences. Kerman. Iran.

2005 2 Days " **Preliminary Internet**" Kerman University of Medical Sciences. Kerman. Iran.

2005 2 Days " **Advanced Internet**" Kerman University of Medical Sciences. Kerman. Iran.

2005 1 Day " **Endnote Software and its application in management**" Kerman University of Medical Sciences. Kerman. Iran.

2005 3 Days " **Preliminary Research Methodology**" Kerman University of Medical Sciences. Kerman. Iran.

2005 5 Days " **Education of Dosimetry**" Iranian Nuclear Society. Karaj, Iran.

2004 2 Days " **Course Plan & Course Scheduling**" Kerman University of Medical Sciences. Kerman. Iran.

Academic activities

□ *Iranian Association of Medical Physics*, Member, 2003 - Present.

Scientific-Executive Records

□ 2011-Present, Head Group of General Education Dept, Kerman University of Medical Sciences.

□ 2003-2011, Physicist in Shafa Hospital, Radiotherapy Dept, Shafa Hospital of Kerman, Kerman, Iran.

Honors

□ Ranked 1st among the M.Sc students of Medical Physics, Isfahan University of Medical Sciences, 2001.

Languages

□ **Persian** (*native*)

□ **English** (*fluent in reading and writing and audible understanding*)

Extracurricular Activities

□ **Sport**
Walking