



# CV



## 1. PERSONAL DETAILS:

Full name:	Hamid-Reza Sadoughi
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E-mail:	hr.sadoughi@nkums.ac.ir , Sadoughi.hamid@gmail.com
Tel:	(0098) 09037238444
Birth date:	1983/01/19
Marriage status:	Married

## 2. Education:

Date	Title	Place
1997-2001	Diploma in Mathematics	Ayatollah Khamenei High School, Quchan
2001-2006	BSc in Solid State Physics	Ferdowsi University of Mashhad
2006-2009	MSc in Medical Physics	Tehran University of Medical Sciences
2009-2014	PhD in Medical Physics	Mashhad University of Medical Sciences

## 3. QUALIFICATIONS:

Date	Title	Organizer and held place
2016	Internship in Radiotherapy Department of Cancer Institute of Imam Khomeini Hospital	Tehran University of Medical Sciences
2015	Participation in two day workshop on launching and quality assurance of linear radiotherapy accelerators	Iranian Association of Medical Physics
2013	Participation in a three-day workshop on clinical applications of radiation dosimetry treatment system design	Mashhad University of Medical Sciences
2012	Attending a five-day workshop (60 hours) Introduction to GEANT4 Tool	Ferdowsi University College of Mashhad
2009	Participation in Dosimetry and Radiation Therapy Workshop	Mashhad University of Medical Sciences
2008	Participation in 60-Hours Radiotherapy Workshop (Dosimetry and Treatment Design), Cancer Institute of Imam Khomeini Hospital	Tehran University of Medical Sciences

2007	Attendance at Medical Accelerator Physics Workshop	Shahid Beheshti University
2007	Participation in Radiation Protection Workshop on Nuclear Medicine	Shahid Beheshti University of Medical Sciences

#### 4. WORK & TUTORIAL EXPERIENCES:

Date	Title	Organizer and held place	Details ,and additional data
2014-now	Academic member	Faculty of medicine , North Khorasan university of medical sciences	

#### 5. PROJECTS:

Date	Title	Organizer and held place
2007	Evaluation and Comparison of Delivered Dose to Bladder and Rectum Organs in Conformal Prostate Radiotherapy Using Gel Dosimetry	Tehran University of Medical Sciences
2009	Assessment of the quality of radiology centers affiliated to Mashhad University of Medical Sciences hospitals in terms of quality control (Phase I)	Mashhad University of Medical Sciences
2011	Feasibility of Calculating Dose Distribution of Linac Photon Beams in Symmetric and Asymmetric Rectangular Fields in Homogeneous Water Phantom Using SVM Algorithm	Mashhad University of Medical Sciences

#### 6. PUBLICATIONS:

##### 6.1. Articles: (Vancouver reference style )

Babaei M, Ghahramani-Asl R, <b>Sadoughi H-R</b> , Sardari D, Shahzadi S. Evaluation of Bremsstrahlung radiation dose in stereotactically radiocolloid therapy of cystic craniopharyngioma tumors with <sup>32</sup> P radio-colloid. Australasian physical & engineering sciences in medicine. 2018;41(3):697-711.
Ghorbani M, Jia SB, Khosroabadi M, <b>Sadoughi HR</b> , Knaup C. Evaluation of the effect of soft tissue composition on the characteristics of spread-out Bragg peak in proton therapy. Journal of cancer research and therapeutics. 2017;13(6):974.
Asl RG, Parach AA, Nasseri S, Momennezhad M, Zakavi SR, <b>Sadoughi HR</b> . Specific absorbed fractions of internal photon and electron emitters in a human voxel-based phantom: a Monte Carlo study. World journal of nuclear medicine. 2017;16(2):114.
<b>Sadoughi H</b> , Khosroabadi M, Bakhshabadi M, Rezaei Mh. Environmental gamma radiation dose

rate in the open space of bojnourd city. Journal of north khorasan university of medical sciences. 2015;7(1):93-100.
<b>Sadoughi H-R</b> , Nasser S, Momennezhad M, Sadeghi H-R, Bahreyni-Toosi M-H. A comparison between GATE and MCNPX Monte Carlo codes in simulation of medical linear accelerator. Journal of medical signals and sensors. 2014;4(1):10.
Gholamhosseinian-Najjar H, Bahreyni-Toosi M-T, Zare M-H, Sadeghi H-R, <b>Sadoughi H-R</b> . Quality control status of radiology centers of hospitals associated with mashhad university of medical sciences. Iranian Journal of Medical Physics. 2014;11(1):182-7.
<b>Sadoughi H-R</b> , Nasser S, Momennezhad M, Sadoghi-Yazdi H, Zare M-H, Bahreyni-Toosi M-H. Calculations of Linac Photon Dose Distributions in Homogeneous Phantom Using Spline. Iranian Journal of Medical Physics. 2013;10(2):133-8.
Sadeghi HR, Toosi MHB, Soudmand S, <b>Sadoughi HR</b> , Sazgarnia A. Gold-gold sulfide nanoparticles intensify thermal effects of radio frequency electromagnetic field. Journal of experimental therapeutics & oncology. 2013;10:285-91.
Nedaie H, Vaezzadeh S, <b>Sadoughi H</b> , Allahverdi M, Aghili M, Esfahani M. 1366 poster Design, fabrication and implementation of pelvic anthropomorphic phantom for quality assurance by using gel dosimetry. Radiotherapy and Oncology. 2011;99:S509.
<b>Sadoughi HR</b> , Allahverdi M, Nedaei H, Jaber R, Esfahani M, Shirazi A. A Dosimetric Evaluation of Organs at Risk in Prostate Radiation Therapy using a MAGIC Gel Dosimeter. Iranian Journal of Medical Physics. 2010;7(1):43-51.
Abdoli M, Ahmadian A, Karimifard S, <b>Sadoughi H</b> , Rizi FY, editors. An efficient piecewise modeling of ECG signals based on critical samples using Hermitian basis functions. 4th European Conference of the International Federation for Medical and Biological Engineering; 2009: Springer, Berlin, Heidelberg.
Ahmadian A, Karimifard S, <b>Sadoughi H</b> , Abdoli M, editors. An efficient piecewise modeling of ECG signals based on Hermitian basis functions. 2007 29th Annual International Conference of the IEEE Engineering in Medicine and Biology Society; 2007: IEEE

## 6.2. Oral Presentations:

Lecture at the Seminar "Ionizing Radiation and New Techniques for Detecting the Genetic Effects of Radiation" in Continuing Medical Education Programs of Mashhad University of Medical Sciences, 2010
Lecture on "Physics of Medical Accelerators" in Continuing Medical Education Programs of North Khorasan University of Medical Sciences for 4 Hours, 2013

## 6.3. Poster Presentations:

Sadoughi Hamid-Reza, 2008, 9th Iranian Congress of Medical Physics, Iran University of Medical Sciences, Tehran, Iran
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## 7. ADDITIONAL INFORMATION

**special skills:**

Master in three-dimensional treatment planning software (Isogray and RTDosePlan)

Master in quality control in radiotherapy departments

Familiar to "Acceptance test" and "Commissioning" of radiation therapy devices

Familiar to GEANT4 simulation software

Master in GATE, MCNP4c and MCNP simulation software's

**Programming skills:**

FORTRAN, C++ and MATLAB

**Computer skills:**

Adobe Photoshop, Corel Draw and ICDL