

Curriculum Vitae

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Year and place of birth: 1985 (1364), Hamedan, Iran

EDUCATIONAL SUMMARY

Ph.D. (Medical Physics) <i>Feb 2016 –Dec 2019</i>	Isfahan University of Medical Sciences, Isfahan, Iran
M.Sc. (Medical Physics) <i>Oct 2011 -Sep 2014</i>	Shiraz University of Medical Sciences, Shiraz, Iran
B.Sc. (Physics) <i>Oct. 2004-2008</i>	Razi University, Kermanshah, Iran
Diploma, Mathematics <i>Jun. 2002</i>	Kermanshah, Iran

RESEARCH SUMMARY

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| Ph.D. Thesis | <ul style="list-style-type: none">▪ Synthesis and characterization of iron oxide-gold core-shell nanoparticles and their photo and radio sensitization effect on nasopharyngeal cancer cell (KB) |
| M.Sc. Thesis | <ul style="list-style-type: none">▪ Simulation and designing of nano-material-based multi-layered lead-free shields and optimizing radiation attenuation of these shields in diagnostic X-ray photons energy ranges. |

JOURNAL PAPERS

- 2020 Safari A, Sarikhani A, Shahbazi-Gahrouei D, Alamzadeh Z, Beik J, Dezfuli AS, et al. *Optimal scheduling of the nanoparticle-mediated cancer photo-thermo-radiotherapy. Photodiagnosis and Photodynamic Therapy.* 2020;102061.
- 2019 Movahedi, M., Tavakoli Golpayegani, A., **Safari, A.**, Amani, S. *Effects of Short-term Exposure to Electromagnetic Fields Emitted by 3G and 4G Mobile Phones on Reaction Time and Short-term Memory. Iranian Journal of Medical Physics,* 2019; 16(3): 250-254.
- 2018 R Yahyapour, A Salajegheh, **A Safari,** S Abbasi, P Amini, A Rezaeyan, A Amraee, M Najafi. "Radiation-induced Non-targeted Effect and Carcinogenesis; Implications in Clinical Radiotherapy". *J Biomed Phys Eng* 2018;
- 2014 **Safari A,** Mortazavi SMJ, H Mozdarani. "RadBioStat an Educational Software for Teaching the Random Nature of Cell Killing". *J Biomed Phys Eng* 2014; 4(1)

MM Movvahedi, A Tavakkoli-Golpayegani, S A R. Mortazavi, M Haghani, Z Razi, MB Shojaie-fard, M Zare, E Mina, L Mansourabadi, Nazari-Jahromi, **A Safari,** N Shokrpour, S. M. J. Mortazavi "Does exposure to GSM 900 MHz mobile phone radiation affect short-term memory of elementary school students?", *Journal of pediatric neurosciences.* 2014;9(2):121.

RESEARCH PROJECTS CONDUCTED

The Center for Research on Protection against Ionizing and Non-Ionizing Radiation:

Effect of short-term exposure to electromagnetic fields emitted by 3-4G and GSM mobile phone on reaction time and short memory.

The high electric fields generated by some common energy saving compact fluorescent lamps.

How efficient are multilayered nano-sized lead-free kilovoltage X-ray shields?

Effects of exposure to radiation from laser and diagnostic dental X-rays on sub leakage of amalgam filling.

The effect of electromagnetic fields in the range of radio frequency waves on the accuracy of medical thermometers readings.

CLINICAL LAB & WORK EXPERIENCE

Diagnostic nanoparticles and radiobiology laboratory (2018- currently)	<i>Nanoparticle Synthesis and application in cancer diagnosis and treatment, Cell culture, Handling laboratory animal</i>
Sayed-al-shohada cancer center (2017- 2018)	<i>3D Treatment Planning, QC, Dosimetry</i>
The Center for Research on Protection against Ionizing and Non-Ionizing Radiation (2012- 2016)	<i>Researcher</i>

HONORS & AWARDS

- 2014** *Top student in M.Sc. degree.*
- 2014** *Developing RadBioStat software for learning target theory in Radibiology*
- 2014** *Shooting Championship bronze medalist in national sports Olympiad medical sciences university's students*

CONFERENCE POSTERS

- 2014** *Safari A, Mortazavi SMJ .et al "optimizing radiation attenuation of nano-material-based multi-layered lead-free shields in diagnostic X-ray photons energy ranges." 11th Iranian conference of Medical Physics, Tehran, Iran.*
- 2014** *SMJ Mortazavi, AR Mehdizadeh, MA Mosleh-Shirazi, A Safari .et al "How Efficient are Multilayered Nano-Sized Lead-Free Kilovoltage X-Ray Shields?", accepted by the 41st Annual Meeting of the European Radiation Research Society for a poster presentation, September 19, 2014, Rhodes, Greece.*
- 2012** *Mortazavi SMJ, Safari A, Haghani M''The High Electric Fields Generated by Some Common Energy Saving Compact Fluorescent Lamps''. Presented in Second Non Ionizing Radiation Safety Conference, Shiraz, Iran.*

TEACHING EXPERIENCE

Radiation Physics, Medical Physics, Dosimetry, Radiation Protection, Physics of Diagnostic Radiology for Paramedical Students, Medical Physics Lab for Medical and Paramedical Students

Instructor, " Basics of Medical Physics" Shiraz University of Medical Sciences

Instructor, " Medical Physics Lab". For Medical and Dentistry Student Shiraz and Isfahan University of Medical Sciences

Instructor, " Medical Physics Lab" For environmental health engineering Student. Isfahan University of Medical Sciences

Instructor, " Fundamentals of Physics ".

COMPUTER SKILLS

Mathematical Package

MATLAB, SPSS

Medical Physics

EGS.nrc, MCNP, Treatment planning systems,

Practical

Graphic design softwares, EndNote, Mendeley

ADDITIONAL EXPERIENCE, SKILLS& MEMBERSHIP

QC (Diagnostic radiology and radiotherapy equipments)
3D Treatment Planning, Radiation Protection & Dosimetry

-Member of Radiology Department, School of Paramedical Sciences, Shiraz University of Medical Sciences, Shiraz, Iran

-Member of Ionizing and Non-Ionizing Radiation Protection Research Center (INIRPRC), Shiraz University of Medical Sciences

-International Organization of Medical Physics (IOMP)

-American Association of Physicists in Medicine (AAPM)

- Iranian Association of Medical Physicists (IAMP)

ADMINISTRATIVE EXPERIENCE

Executive Committee Member of:

- *1st MEFOMP International Conference of Medical Physics, Shiraz, Iran.*
- *2nd Non-Ionization Radiation Safety Conference, Shiraz, Iran.*
- *11th Iranian conference of Medical Physics, Tehran, Iran.*
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