## Marzieh Esmaeili

Contact	Address:	Tehran, Iran		
Information	Cell Phone:	(+98) 915 512 9833		
	E-mail:	marzieh.esmaeili@gmail.com ersity of Medical Sciences, Tehran, Iran		
Education	Doctor of Phi.  Medi Thes medi	Oct. 2017 to May. 2023		
	Master of Scie  Infor  15.54	rmation Technology Engineering – Information Security, GPA: 4/20	Sep. 2009 to Feb. 2012	
	<ul> <li>Thesis title: Anomaly detection using transaction relationships in databases</li> </ul>			
		o Supervisors: Dr. Hamidreza Shahrriari, Dr. Babak Sadeghiyan		
	Islamic Azad Bachelor of So  Com	Sep. 2002 to Feb. 2006		
Research	Machine I			
Interests	• Deep Lear	rning mage Processing		
Publications Journal papers	1. <b>Esmaeili, M.</b> , Toosi. A., Roshanpoor, A., Changizi, V., Ghazisaeedi, M., Rahmim, A., M., Sabokrou, "Generative adversarial networks for anomaly detection in biomedical imaging: A study on seven medical image datasets", IEEE Access, Vol. 11, 2023, P.P. 17906-17921. (IF: 3.9/Q1)			
	2. Ahmadinejad, N., Ayyoubzadeh, SM., Zeinalkhani, F., Delazar, S., Javanmard, Z., Ahmadinejad, Z., Mohajeri, A., <b>Esmaeili, M.</b> , "Discovering associations between radiological features and COVID-19 patients' deterioration", Health Science Reports, Vol. 6, Issue. 5, 2023, P.P. e1257. (ESCI/Q2/PubMed)			
	3. Rabiei, R., Ayyoubzadeh, SM., Sohrabei, S., <b>Esmaeili, M.</b> , Atashi, A., "Prediction of breast cancer using machine learning approaches", Journal of Biomedical Physics and Engineering, Vol. 12, Issue. 3, 2022, P.P. 297-308. (Q3/PubMed)			
	4. <b>Esmaeili, M.</b> , Ayyoubzadeh, SM., Javanmard, Z., Rostam Niakan Kalhori, S., "A systematic review of decision aids for mammography screening: Focus on outcomes and characteristics", International Journal of Medical Informatics, Vol. 149, 2021, P.P. 104406. (IF: 4.9/Q1/PubMed)			
	5. <b>Esmaeili, M.</b> , Abdi, F., Shafiee, G., Asayesh, H., Esmaeili Abdar, Z., Baygi, F., Qorbani, M., "Olfactory and gustatory dysfunction in 2019 novel coronavirus: An updated systematic review and meta-analysis", International Journal of Preventive Medicine, Vol. 12, Issue. 12, 2021, P.P. 170. (ESCI/Q3/PubMed)			

- Mardi, P., Esmaeili, M., Iravani, P., Abdar, ME., Pourrostami, K., Qorbani, M., "Characteristics of children with Kawasaki Disease-like signs in COVID-19 pandemic: A systematic review", Frontiers in Pediatrics, Vol. 9, 2021, P.P. 147. (IF: 2.6/Q1/PubMed)
   Vizheh, M., Qorbani, M., Arzaghi, SM., Muhidin, S., Javanmard, Z., Esmaeili, M., "The mental health of healthcare workers in the COVID-19 pandemic: A systematic review", Journal of Diabetes & Metabolic Disorders, Vol. 19, Issue. 2, 2020, P.P. 1967–1978.
- 8. Baniasadi, T., Ghazisaeedi, M., Hassaniazad, M., Rostam Niakan Kalhori, S., Shahi, M., **Esmaeili, M.**, "Surgical patients follow-up by smartphone-based applications: A systematic literature review", Studies in health technology and informatics, Vol. 271, 2020, P.P. 85-92. (Q3/PubMed)
- 9. **Esmaeili, M.**, Ayyoubzadeh, SM., Ahmadinejad, N., Ghazisaeedi, M., Nahvijou, A., Maghooli, K., "A decision support system for mammography reports interpretation", Health Information Science and Systems, Vol. 8, Issue. 1, 2020, P.P. 1-8. (IF: 6.0/Q1/PubMed)
- Ayyoubzadeh, SM., Rostam Niakan Kalhori, S., Shirkhoda, M., Mohammadzadeh, N., Esmaeili, M., "Supporting colorectal cancer survivors using eHealth: A systematic review and framework suggestion", Supportive Care in Cancer, Vol. 28, Issue. 8, 2020, P.P. 3543– 3555. (IF: 3.1/Q2/PubMed)

# Honors and Awards

**Top Student Award**, Department of Health Information Management, Tehran University of Medical Sciences, Tehran, Iran

• Ranked 1st among all PhD students in Medical Informatics (Class of 2021)

#### National PhD Entrance Examination, Medical Informatics, Iran

2017

- Ranked 1<sup>st</sup> among all participants (Written Exam)
- Ranked 5<sup>th</sup> among all participants (Overall)

**Acknowledgment of Cooperation**, Department of Computer Engineering, Quchan University of Technology, Quchan, Iran

**Acknowledgment of Cooperation**, CERT of Ferdowsi University of Mashhad, Mashhad, Iran

**Research grant for MSc thesis,** Iran Telecommunication Research Center (ITRC), 2012 Tehran, Iran

• Anomaly detection in databases using transaction dependencies

National MSc Entrance Examination, Information Technology Engineering, Iran 2009

• Ranked 32<sup>ed</sup> among all participants

# Teaching Experience

### Tehran University of Medical Sciences, Tehran, Iran

2017 to 2018

Lecturer

(IF:2.8/Q2/PubMed)

Fall 2017

Skill Laboratory – Network security (12 hours)

### Quchan University of Technology, Quchan, Iran

2014 to 2016

- Lecturer
  - o Computer Networks Basic
  - o Computer Networks Advanced
  - Internet Engineering

### Bahar Institute of Higher education, Mashhad, Iran

2012 to 2015

- Lecturer
  - Information Security
  - Network Security

	CERT of Ferdowsi University of Mashhad, Mashhad, Iran - (APA Lab)	Summer 2014		
	<ul> <li>Lecturer</li> <li>.NET Based Web Application Security (20 hours)</li> </ul>			
	Tarbiat Modares University, Tehran, Iran	2013 to 2014		
	<ul> <li>Teaching Assistant</li> <li>Security Protocols (Graduate Course)</li> </ul>			
	<b>3<sup>rd</sup> International eConference on Computer and Knowledge Engineering</b> , Ferdowsi University of Mashhad, Mashhad, Iran	Fall 2013		
	<ul> <li>Lecturer (Workshop)</li> <li>Electronic Payment Systems (4 hours)</li> </ul>			
	Ferdowsi University of Mashhad, Mashhad, Iran	2012 to 2013		
	<ul> <li>Teaching Assistant</li> <li>Security Protocols (Graduate Course)</li> </ul>			
Research	Scientific Reviewer	2020 to present		
Experience	<ul> <li>Journal of Diabetes &amp; Metabolic Disorders</li> <li>Epidemiology &amp; Infection Journal</li> <li>PeerJ Journal</li> <li>International Quarterly of Community Health Education</li> <li>Psychology Research and Behavior Management</li> <li>Journal of Multidisciplinary Healthcare</li> <li>International Journal of Psychiatry in Clinical Practice</li> <li>International Journal of Mental Health Promotion</li> <li>International Journal of Mental Health</li> <li>International Journal of Occupational Safety and Ergonomics</li> <li>Tehran University of Medical Sciences, Tehran, Iran</li> <li>PhD Dissertation         <ul> <li>Design and development an anomaly detection model in medical images by generative adversarial networks</li> </ul> </li> <li>Research Advisor         <ul> <li>Design and development of an educational package on human papillomavirus infection</li> <li>Design and development of an educational package on the</li> </ul> </li> </ul>	2020 to 2023		
	Iranian health insurance system  Iranian Registry for Infants, Children and Adolescents with Chronic	2019 to 2022		
	Kidney disease (CKD)			
	Technical Consultant  Quchan University of Technology, Quchan, Iran			
	D 1.41.	2015 to 2016		
	<ul> <li>Research Advisor</li> <li>Identify and classify peer-to-peer network traffic using machine learning techniques</li> <li>Design and development of a mobile based student service system</li> </ul>	2013 t0 2010		
	CERT of Ferdowsi University of Mashhad (APA Lab)	2014		
	<ul> <li>Research Supervisor</li> <li>Social bots project</li> </ul>			

<ul> <li>Design and development of a web-based application vulnerability scanner tool</li> </ul>	
3 <sup>rd</sup> International eConference on Computer and Knowledge Engineering	Fall 2013
Scientific reviewing of papers	
Ferdowsi University of Mashhad, Mashhad, Iran	2013
<ul> <li>Research Advisor</li> <li>Internet of Things Project</li> </ul>	
Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran	2012
<ul> <li>Master Thesis</li> <li>Anomaly detection using transaction relationships in databases</li> </ul>	