Personal Information

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Research Experience

- Research Fellow – Obuda University (01/09/2026 - Current).
- My research experience spans a diverse range of clinical and disease areas, including cardiovascular disease, coronary artery disease, heart failure, hypertension, stroke, diabetes mellitus, obesity, chronic kidney disease, several forms of cancer such as breast, lung, and colorectal cancer, liver and thyroid disorders, tuberculosis, COVID-19, sepsis, Alzheimer's disease, Parkinson's disease, epilepsy, depression, anxiety disorders, sleep disorders, respiratory conditions, and ophthalmic diseases including glaucoma and retinal disorders.

Education

- PhD , Deakin University, Geelong, Australia, October 2020 to October 2024.
- Doctor of Medicine, Mashhad University of Medical Sciences, 2008-2015.

Publications:

Journal Paper:

- Roohallah Alizadehsani, et al. **Fahime Khozeimeh**, A database for using machine learning and data mining techniques for coronary artery disease diagnosis, Nature scientific data 6 (1), 1-13, (Citations: 125), **(Nature Journal**, IF=7.2)(2019)
- **Khozeimeh, Fahime,** et al. ALEC: Active Learning with Ensemble of Classifiers for Clinical Diagnosis of Coronary Artery Disease, Computers in Biology and Medicine. (Citations: 21), (ISI Journal - IF=6.5), 2023.
- **Khozeimeh, F**., Sharifrazi, D., Izadi, N. H., Joloudari, J. H., Shoeibi, A., Alizadehsani, R., ... & Islam, S. M. S. (2022). RF-CNN-F: random forest with convolutional neural network features for coronary artery disease diagnosis based on cardiac magnetic resonance. Nature *Scientific Reports* (Citations: 130), (ISI Journal - IF=4.9), *12*(1), 11178.
- **Khozeimeh, F**., Sharifrazi, D., Izadi, N. H., Joloudari, J. H., Shoeibi, A., Alizadehsani, R., ... & Islam, S. M. S. (2021). Combining a convolutional neural network with autoencoders to predict the survival chance of COVID-19 patients. Nature *Scientific Reports* (Citations: 125), (ISI Journal - IF=4.9), *11*(1), 15343.
- Shoeibi, A., Khodatars, M., Jafari, M., Ghassemi, N., Sadeghi, D., Moridian, P., Khadem, A., Alizadehsani, R., Hussain, S., Zare, A. Sani, Z.A., **Khozeimeh, F.,** 2024. Automated detection and forecasting of covid-19 using deep learning techniques: A review. Neurocomputing, (Citations: 361), (ISI Journal - IF=6.7), 577, p.127317.
- Eskandarian, R., Alizadehsani, R., Behjati, M., Zahmatkesh, M., Sani, Z.A., Haddadi, A., Kakhi, K., Roshanzamir, M., Shoeibi, A., Hussain, S. and **Khozeimeh, F.,** 2023, March. Identification of clinical features associated with mortality in COVID-19 patients. In *Operations Research Forum* (Citations: 33), (Vol. 4, No. 1, pp. 1-20). Springer International Publishing.
- **Khozeimeh, Fahime,** et al. "Importance of Wearable Health Monitoring Systems Using IoMT; Requirements, Advantages, Disadvantages and Challenges." *2022 IEEE 22nd International Symposium on Computational Intelligence and Informatics and 8th IEEE International Conference on Recent Achievements in Mechatronics, Automation, Computer Science and Robotics* (Citations: 26), *(CINTI-MACRo)*. IEEE, 2022.

- Sadeghi, D., Shoeibi, A., Ghassemi, N., Moridian, P., Khadem, A., Alizadehsani, R., Teshnehlab, M., Gorriz, J.M., **Khozeimeh, F.,** Zhang, Y.D. and Nahavandi, S., 2022. An overview of artificial intelligence techniques for diagnosis of Schizophrenia based on magnetic resonance imaging modalities: Methods, challenges, and future works. *Computers in Biology and Medicine*. (Citations: 217), (ISI Journal - IF=6.5), p.105554.
- Shoeibi, A., Khodatars, M., Ghassemi, N., Jafari, M., Moridian, P., Alizadehsani, R., Panahiazar, M., **Khozeimeh, F**., Zare, A., Hosseini-Nejad, H. and Khosravi, A., 2021. Epileptic seizures detection using deep learning techniques: A review. *International Journal of Environmental Research and Public Health*, (Citations: 622), *18*(11), p.5780.
- Alizadehsani, R., et al., **Fahime Khozeimeh**, Coronary Artery Disease Detection Using Artificial Intelligence Techniques: A Survey of Trends, Geographical Differences and Diagnostic Features 1991-2020, Computers in Biology and Medicine. (Citations: 146), (ISI Journal - IF=6.5), 2021.
- Alizadehsani, R., et al., **Fahime Khozeimeh**, Risk factors prediction, clinical outcomes, and mortality in COVID-19 patients, Journal of medical virology, (Citations: 217), (ISI Journal - IF=6.8), 2021.
- D Sharifrazi, et al. **Fahime Khozeimeh**, Fusion of convolution neural network, support vector machine and Sobel filter for accurate detection of COVID-19 patients using X-ray images, Biomedical Signal Processing and Control (Citations: 217), (ISI Journal - IF=5.7), 2021.
- Roohallah Alizadehsani, et al., **Fahime Khozeimeh**, System for determining the need for Angiography in patients with symptoms of Coronary Artery disease, US Patent App. 14/312,648(2015)
- Fahime Khozeimeh, et al. An expert system for selecting wart treatment method, 81, 167-175 , Computers in biology and medicine (Citations: 226), (Elsevier journal: IF=6.5) (2017)
- **Fahime Khozeimeh**, et al. Intralesional immunotherapy compared to cryotherapy in the treatment of warts, International journal of dermatology 56 (4), 474-478 (Citations: 184), (ISI Journal, IF=4.2)(2017)
- Roohallah Alizadehsani, et al., **Fahime Khozeimeh**, Coronary artery disease detection using computational intelligence methods, Knowledge-Based Systems 109, 187-197 (Citations: 178), (Elsevier journal: IF=8)(2016)
- Roohallah Alizadehsani, et al., **Fahime Khozeimeh**, Non-invasive detection of coronary artery disease in high-risk patients based on the stenosis prediction of separate coronary arteries, Computer methods and programs in biomedicine 162, 119-127, (Citations: 162), (Elsevier journal: IF=6.4)(2018)
- Roohallah Alizadehsani, et al., **Fahime Khozeimeh**, Machine learning-based coronary artery disease diagnosis: a comprehensive review, Computers in biology and medicine, 103346 , (Citations: 341), (Elsevier journal: IF=6.5)(2019)
- Roohallah Alizadehsani, et al., **Fahime Khozeimeh,** Exerting Cost-Sensitive and Feature Creation Algorithms for Coronary Artery Disease Diagnosis, International Journal of Knowledge Discovery in Bioinformatics (IJKDB), (Citations: 56), 3 (1) 59-79, 2012,
- Alizadehsani, Roohallah, Jafar Habibi, Zahra Alizadeh Sani, Hoda Mashayekhi, Reihane Boghrati, Asma Ghandeharioun, **Fahime Khozeimeh**, and Fariba Alizadeh-Sani. "Diagnosing coronary artery disease via data mining algorithms by considering laboratory and echocardiography features." *Research in cardiovascular medicine* 2, no. 3 (Citations: 89), (2013): 133.
- M Teimoorian, **Fahime Khozeimeh**, et al., Intralesional immunotherapy with Candida antigen compared to cryotherapy in the treatment of warts, American Academy of Dermatology, 2016.
- Zahra Alizadeh Sani, et al., **Fahime Khozeimeh**, Magnetic resonance imaging abnormalities in right ventricular outflow tract tachycardia, Euro CMR, P54 (2012),

- Zahra Alizadeh Sani, et al., **Fahime Khozeimeh,** Post ST-segment elevation myocardial infarction no-reflow phenomenon; A comparison between cardiac magnetic resonance and angiographic measurements, Euro CMR, P30 (2012).
- Zahra Alizadeh Sani, et al., **Fahime Khozeimeh**, Mid-term results of pulmonary valve replacement in patients with total correction of Tetralogy of fallot in Rajaie Heart Center, Euro CMR, P22 (2012).
- Zahra Rajae, et al., **Fahime Khozeimeh**, Effect of glycemic control on prooxidant–antioxidant balance in type 2 diabetic patients and its comparison with healthy subjects, Clinical Biochemistry-New York 44 (13), 8 (2011).
- **Fahime Khozeimeh,** et al., Comparison of serum oxidized LDL level in healthy and well glycemic controlled type 2 diabetic subjects, Clinical Biochemistry 13 (44), S83-S84 (2011).
- Hossein Heidari, R Zahra, **Fahime Khozeimeh**, et al., Effect of glycemic control on prooxidant–antioxidant balance in type 2 diabetic patients and its comparison with healthy subjects, Clinical Biochemistry 13 (44), S83 (2011).

Patents:

- The US patent named "The system for determining the need to Angiography for patients with symptoms of Coronary Artery Disease", Patent number 20150370996, Publication date 2015/12/24, Application number 14/312648.
- The patent named "The system for determining stenosis of LAD, LCX, RCA arteries", 2013, Iran (Iran Patent No. 80742).
- The patent named "A system for diagnosing hypertrophic cardiomyopathy using deep learning techniques", 2023, Deutsches patents.
- The patent named "A Convolutional Neural Network System for Coronary Artery Disease Diagnosis", 2022, Republic of South Africa patents.

Fellowships and Awards

- Ranked **313th** among more than **400000 participants** in National B.Sc. Entrance Exam (Konkoor in Persian)
- Awarded around €2,000 Visiting Scholarship by J. E. Purkyně University in Ústí nad Labem (UJEP), Czech Republic, supervised by Dr. Hossein Moosaei.
- Gold Medal Winner and Special Award of the 41st International Exhibition of Geneva for my patent titled "The system for determining the need to Angiography for patients with symptoms of Coronary Artery Disease", March 2013, Switzerland (Iran Patent No. 77131).
- The Best Invention Prize of the 41st International Exhibition of Geneva for my patent titled "The system for determining the need to Angiography for patients with symptoms of Coronary Artery Disease", March 2013, Switzerland, granted by the Russian Federation Government.
- Awarded a PhD scholarship by Deakin University, Australia.
- According to Scopus, 66.1% of my publications are among the top 25% most cited worldwide, and 67% are published in the top 25% of journals by CiteScore.
- In 2015, I was selected as a member of National Organization for Development of Exceptional Talents.
- My article titled as “Intralesional immunotherapy compared to cryotherapy in the treatment of warts” was one of the 20 most downloaded papers in “International journal of dermatology” journal in 2017-2018.
- My article titled as “An expert system for selecting wart treatment method” is one of the most cited papers in “Computers in biology and medicine” journal.

International Collaborations

- 81.7% of my publications are co-authored with researchers from other countries or regions, including collaborations with researchers from Harvard, Stanford, Imperial College London, and the University of British Columbia.

Publicly Available Datasets

- Released several well-annotated medical datasets widely used by researchers worldwide.
- Cryotherapy Dataset – Clinical data for cryotherapy outcome prediction. Available at: https://archive.ics.uci.edu/dataset/429/cryotherapy+dataset
- Immunotherapy Dataset – Records related to immunotherapy treatments. Available at: https://archive.ics.uci.edu/dataset/428/immunotherapy+dataset

Online Profiles and Research Metrics

- ORCID: https://orcid.org/0009-0002-2393-2997
- Scopus: https://www.scopus.com/pages/authors/57191575180
- Google Scholar Citations: h-index: 25, Citations: 4361
- Scopus h-index: 18
- Personal Website: https://scholar.google.com/citations?user=5FRU3HAAAAAJ&hl=en

Research Interests

- AI in healthcare
- Biostatistics
- My research experience spans a diverse range of clinical and disease areas, including cardiovascular disease, coronary artery disease, heart failure, hypertension, stroke, diabetes mellitus, obesity, chronic kidney disease, several forms of cancer such as breast, lung, and colorectal cancer, liver and thyroid disorders, tuberculosis, COVID-19, sepsis, Alzheimer's disease, Parkinson's disease, epilepsy, depression, anxiety disorders, sleep disorders, respiratory conditions, and ophthalmic diseases including glaucoma and retinal disorders.

References

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