

CURRICULUM VITEA



Maryam Farhadian, MS.c, PhD

Associate Professor in Biostatistics

Date of Preparation: June 2024

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Degrees

B.Sc. in Statistics (2001-2005), Department of Statistics, School of Mathematics, Razi University, Kermanshah, Iran.

M.Sc. in Biostatistics (2006-2009), Department of Biostatistics, School of Public Health, Hamadan University of Medical Sciences, Hamadan, Iran.

Ph.D. in Biostatistics (2010-2015) Department of Biostatistics, School of Public Health, Hamadan University of Medical Sciences, Hamadan, Iran.

Awards and Honors

Best lecturer of the School of Public Health, Hamadan University of Medical Sciences (2024).

Top Researcher, Hamadan University of Medical Sciences (2022).

Top Researcher, Hamadan University of Medical Sciences (2020).

Top Young Researcher, Hamadan University of Medical Sciences (2016).

Award in certificate of appreciation for achieving 1th Rank between PhD Entrances, Hamadan University of Medical Sciences, Hamadan, Iran.

Award in certificate of appreciation for achieving 1th Rank between M.Sc. Entrances, Hamadan University of Medical Sciences, Hamadan, Iran.

Position Held

Faculty Member at Hamadan University of Medical Sciences. (2015-Present)

Members of the Modeling of Noncommunicable Diseases Research Center.

Members of the Research Center for Health Sciences.

Member of the Research Council of the School of Dentistry.

Statistical consultant of the Journal of Education and Community Health (Scopus Indexing)

Statistical consultant of the Journal of Occupational Hygiene Engineering

Associate Editor of the Journal of research in health Sciences (ISI, PubMed, Scopus Indexing)

Teachings

Statistical Methods (I) (for MSc students)

Statistical Methods (II) (for MSc students)

Statistical Methods (III) (for MSc students)

Statistical Models and Indexes in Demography (for MSc students)

Machine learning (for PhD students)

Publication papers

Full Papers (See all articles at the following address)

https://scholar.google.com/citations?hl=en&user=kBX_Eu4AAAAJ&view_op=list_works&sort=pubdate

Selected Papers

1. Piran N, **Farhadian M**, Soltanian AR. et al. Diabetic foot ulcers risk prediction in patients with type 2 diabetes using classifier based on associations rule mining. *Sci Rep* 14, 635. (2024).
2. **M Farhadian**, Sobhan Veisi, N Farhadian , MH Zamanian Hematological parameters in newly diagnosed TB patients: A systematic review and meta-analysis. *Tuberculosis* 144, 102430, 2024.
3. N Farhadian, **M Farhadian**, MHZamanian, M Taghadosi, Siavash Vaziri. Sotrovimab therapy in solid organ transplant recipients with mild to moderate COVID-19: a systematic review and meta-analysis, *Immunopharmacology and Immunotoxicology*, 45:4, 402-408, 2023.
4. Farhadian N, Sharifi S, Taghadosi M, **Farhadian M**, Vaziri S. Humoral immune response to two doses of COVID-19 mRNA-based vaccines in people living with HIV: A systematic review and meta-analysis. *Reviews in Medical Virology*, e2451. 2023.
5. Khazaei M, Mollabashi V, Khotanlou H, **Farhadian M**. Automatic determination of pubertal growth spurts based on the cervical vertebral maturation staging using deep convolutional neural networks. *Journal of the World Federation of Orthodontists*, 12(2), 56-63. 2023.
6. Hassanzadeh R, **Farhadian M**, Rafieemehr H. Hospital mortality prediction in traumatic injuries patients: comparing different SMOTE-based machine learning algorithms. *BMC Med Res Methodol* 23, 101. 2023.
7. Sobhani F, Miresmaeili A, Mahjub H, **Farhadian M**. Statistical shape analysis of maxillary palatal morphology in patients with palatally displaced canines. *BMC Med Imaging* 23, 198 (2023).
8. Moslehi S; Mahjub H; **Farhadian M**; Soltanian AR; Mamani M. Interpretable generalized neural additive models for mortality prediction of COVID-19 hospitalized. *BMC Medical Research Methodology*. 2022; 22(1).
9. Farhadian N; **Farhadian M**; Zamanian MH; Taghadosi M; Vaziri S. Sotrovimab therapy in solid organ transplant recipients with mild to moderate COVID-19: A systematic review and meta-analysis. *Immunopharmacology and Immunotoxicology*. 2022.

10. Dehdar Karsidani S; Farhadian M; Mahjub H; Mozayanimonfared A. Intelligent prediction of major adverse cardiovascular events (MACCE) following percutaneous coronary intervention. *BMC Cardiovascular Disorders*. 2022; 22 (1).
11. Khazaei M; Mollabashi V; Khotanlou H; **Farhadian M**. Sex determination from lateral cephalometric radiographs using an automated deep learning convolutional neural. *Imaging science in dentistry*. 2022; 52 (3); 239-244.
12. Farhadian N; Karami Matin B; Farnia V; Zamanian M H; Najafi Farid; **Farhadian M**. The prevalence of people who inject drugs among those with HIV late presentation: a meta-analysis. *Substance abuse treatment, prevention, and policy*. 2022; 17 (1).
13. Mehregan M; Khosravi A; **Farhadian M**; Mohammadi Y. The age and cause decomposition of inequality in life expectancy between Iranian provinces: application of Arriaga. *BMC Public Health*. 2022; 22 (1).
14. Mohammadian-Khoshnoud M; Soltanian AR; Dehghan A; **Farhadian M**; Optimization of fuzzy c-means (FCM) clustering in cytology image segmentation using the gray wolf algorithm. *BMC Molecular and Cell Biology*. 2022; 23 (1).
15. Aliabadi M; Shafiee Motlagh M; Golmohammadi R; Heidarimoghadam Rashid; **Farhadian M**. Analysis of body heat tolerance of workers in a simulated warm environment based on linear mixed model. *Plos one*. 2022; 17 (12).
16. Sobhani F, Salemi F, Miresmaeili A, **Farhadian M**. Morphometric analysis of the inter-mastoid triangle for sex determination: Application of statistical shape analysis. *Imaging Science in Dentistry*. 2021;51.
17. **Farhadian M**, Karsidani SD, Mozayanimonfared A, Mahjub H. Risk factors associated with major adverse cardiac and cerebrovascular events following percutaneous coronary intervention: a 10-year follow-up comparing random survival forest and Cox proportional-hazards model. *BMC Cardiovascular Disorders*. 2021;21(1):1-8.
18. Mohammadi Y, Mirzaei M, Shirmohammadi-Khorram N, **Farhadian M**. Identifying risk factors for late HIV diagnosis and survival analysis of people living with HIV/AIDS in Iran (1987–2016). *BMC infectious diseases*. 2021;21(1):1-9.
19. **Farhadian M**, Mohammadi Y ,Mirzaei M, Shirmohammadi-Khorram N. Factors related to baseline CD4 cell counts in HIV/AIDS patients: comparison of poisson, generalized poisson and negative binomial regression models. *BMC Research Notes*. 2021;14(1):1-7.
20. **Farhadian M**, Mohammadi Y, Shirmohammadi-Khorram N, Mirzaei M. Use of Quintile Regression to Find Factors Influencing CD4 Cell Count in Iranian Newly Recognized HIV-Infected People (1987–2016). *Clinical Epidemiology and Global Health*. 2021;11:100753.

21. Salemi F, **Farhadian M**, Shokri A, Safi Y, Rahimpanah S. Sex determination by osteometric assessment of the mastoid process using Cone Beam Computed Tomography. *Brazilian Dental Science*. 2021;24(1):9
22. **Farhadian M**, Torkaman S, Mojarad F. Random forest algorithm to identify factors associated with sports-related dental injuries in 6 to 13-year-old athlete children in Hamadan, Iran-2018-a cross-sectional study. *BMC sports science, medicine and rehabilitation*. 2020;12(1):1-9.
23. Pourbakhshi Y, **Farhadian M**, Bahrami A, Tajik L, Ghorbani Shanha F, Assari MJ. Application of Artificial Neural Network and Response Surface Methodology in Optimization of Cold Fiber Headspace Solid-Phase Microextraction (CF-HS-SPME) for Analysis of 2, 5-Hexandion in Urine Samples. *Jundishapur Journal of Health Sciences*. 2020;12(3).
24. N Asaad Sajadi, Mahjub H, S Borzouei, **M Farhadian**. Thyroid disorder diagnosis based on Mamdani fuzzy inference system classifier. *Komesh*. 2020;22(1):107-13.
25. Farhadian N, Moradi S, Zamanian MH, Farnia V, Rezaeian S, **Farhadian M**, et al. Effectiveness of naltrexone treatment for alcohol use disorders in HIV: a systematic review. *Substance abuse treatment, prevention, and policy*. 2020;15(1):1-7.
26. **Farhadian M**, Shokouhi P, Torkzaban P. A decision support system based on support vector machine for diagnosis of periodontal disease. *BMC Research Notes*. 2020;13(1):1-6.
27. **Farhadian M**, Salemi F, Shokri A, Safi Y, Rahimpanah S. Comparison of data mining algorithms for sex determination based on mastoid process measurements using cone-beam computed tomography. *Imaging Science in Dentistry*. 2020;50(4):323.
28. **Farhadian M**, Barati S, Mahmoodi M, Mosleh AB, Yavangui M. Comparison of green tea and metformin effects on anthropometric indicators in women with polycystic ovarian syndrome: A clinical trial study. *Journal of Reports in Pharmaceutical Sciences*. 2020.
29. F Salemi, **Farhadian M**, B Askari Sabzkouhi, S Saati, N Nafis. Age estimation by pulp to tooth area ratio in canine teeth using cone-beam computed tomography. *Egyptian Journal of Forensic Sciences*. 2020;10(2).
30. Borzouei S, Mahjub H, Sajadi NA, **Farhadian M**. Diagnosing thyroid disorders: Comparison of logistic regression and neural network models. *Journal of Family Medicine and Primary Care*. 2020;9(3):1470.
31. Aliabadi MM, Taheri E, Najafi K, Mollabahrani F, Deyhim S, **Farhadian M**. Structural equation modeling of risk-taking behaviors based on personality dimensions and risk power. *International Archives of Health Sciences*. 2020;7(3):119.

32. Sajadi NA, Borzouei S, Mahjub H, **Farhadian M**. Diagnosis of hypothyroidism using a fuzzy rule-based expert system. *Clinical Epidemiology and Global Health*. 2019;7(4):519-24.
33. **Maryam Farhadian**, Fatemeh Salemi, Samira Saati, Nika Nafisi. Dental age estimation using the pulp-to-tooth ratio in canines by neural networks. *Imaging science in dentistry*. 2019; 49(1): 19-26.
34. Mohammad Mirzaei, **Maryam Farhadian**, Jalal Poorolajal, Parvin Afsar Kazerooni, Katayoun Tayeri, Younes Mohammadi. Survival rate and the determinants of progression from HIV to AIDS and from AIDS to the death in Iran: 1987 to 2016. *Asian Pacific Journal of Tropical Medicine*. 2019; 12(2).
35. Aliabadi M, **Farhadian M**, Jalali M, Jahangiri M, Negahban AR. A new empirical approach for predicting heat strain in workers exposed to hot indoor environments. *Indoor and Built Environment*. 2018; 27(5):597-605.
36. **Farhadian M**, Salemi F, Saati S, Nafisi N. Dental age estimation using the pulp-to-tooth ratio in canines by neural networks. *Imaging Science in Dentistry*. 2019; 49(1):19-26.
37. Mirzaei M, **Farhadian M**, Poorolajal J, Kazerooni PA, Tayeri K, Mohammadi Y. Survival rate and the determinants of progression from HIV to AIDS and from AIDS to the death in Iran: 1987 to 2016. *Asian Pacific Journal of Tropical Medicine*. 2019; 12(2):72.
38. M Aliabadi, **M Farhadian**, M Jalali, M Jahangiri, AR Negahban. A new empirical approach for predicting heat strain in workers exposed to hot indoor environments. *Indoor and Built Environment*. 2017.
39. **M Farhadian**, M Aliabadi, R Shahidi. Risk assessment of influence factors on occupational hearing loss in noise – exposed workers in typical metal industry. *Journal of Occupational Hygiene Engineering*. 2015; 1(3):37-44.
40. **M Farhadian**, M Aliabadi, E Darvishi. Empirical estimation of the grades of hearing impairment among industrial workers based on new artificial neural networks and classical regression methods. *Indian Journal of Occupational and Environmental Medicine*. 2015; 19(2):84-9.
41. **Farhadian M**, Mahjub H, Moghimbeigi A, Lisboa PJ, Poorolajal J, Mansoorizadeh M. Wavelet-based gene selection method for survival prediction in diffuse large B-cell lymphomas patients. *International journal of data mining and bioinformatics*. 2015; 13(2):197-210.
42. Aliabadi M, Fereidan M, **Farhadian M**, Tajik L. Determining the effect of worker exposure conditions on the risk of hearing loss in noisy industrial workroom using Cox proportional hazard model. *International Journal of Occupational Safety and Ergonomics*. 2015; 21(2):201-6.

43. Aliabadi M, **Farhadian M**, Darvishi E. Prediction of hearing loss among the noise-exposed workers in a steel factory using artificial intelligence approach. *International archives of occupational and environmental health*. 2015; 88(6).
44. **Farhadian M**, Mahjub H, Poorolajal J, Moghimbeigi A, Mansoorizadeh M. Predicting 5-Year Survival Status of Patients with Breast Cancer based on Supervised Wavelet Method. *Osong public health and research perspectives*. 2014; 5(6):324-32.
45. **Farhadian M**, Mahjub H, Moghimbeigi A, Poorolajal J, Mansoorizadeh M. A Gene Selection Method for Survival Prediction in Diffuse Large B-Cell Lymphomas Patients using 1D Discrete Wavelet Transform. *Iranian journal of public health*. 2014; 43(8):1091-8.
46. **Farhadian M**, Lisboa PJ, Moghimbeigi A, Poorolajal J, Mahjub H. Supervised wavelet method to predict patient survival from gene expression data. *The Scientific World Journal*. 2014; 2014.
47. **Farhadian M**, Moghimbeigi A, Aliabadi M. Mapping the obesity in Iran by bayesian spatial model. *Iranian journal of public health*. 2013; 42(6):581.
48. **Farhadian M**, Mahjub H, Aliabadi M, Musavi S, Jalali M. Prediction of workers pulmonary disorder exposed to silica dust in stone crushing workshops using logistic regression and artificial neural networks techniques. *Jundishapur JHealth Sci*. 2013.
49. **M Farhadian**, M Aliabadi, H Mahjub. Risk Prediction of Pulmonary Function Disorder of Workers Exposed to Silica Dust in the Stone Crushing Workshops Using Cox Regression Model. *The journal of Toloo – e - Bbehdasht*. 2012.
50. **M Farhadian**, H Mahjub, A Moghimbeigi, J Poorolajal. Classification of Death Rate due to Women's Cancers in Different Countries. *Iranian J Publ Health*. 2012; 41(6).
51. **Farhadian M**, Mahjub H, Sadri G, Aliabadi M. Ranking health status of children in iran's provinces and assessing its relation with socio-economic indicators. *Hakim Research Journal*. 2010.

Interests

Biostatistics
 Survival Analysis
 Data Mining
 Deep Learning
 Machine Learning
 Medical Image Processing

Computer Skills

Programming: R, Python, MATLAB, SAS.

Applications: SPSS, Minitab, Weka.