

CURRICULUM VITEA



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Assistant professor in Biostatistics

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Degrees

- **B.Sc. in Statistics (2007-2011)**, Department of Statistics, School of Basic Sciences, Razi University, Kermanshah, Iran.
- **M.Sc. in Biostatistics (2013-2016)**, Department of Biostatistics, School of Public Health, Kermanshah University of Medical Sciences, Kermanshah, Iran.
- **Ph.D. in Biostatistics (2017-2023)**, Department of Biostatistics, School of Public Health, Hamadan University of Medical Sciences, Hamadan, Iran.

Awards and Honors

- Award in certificate of appreciation for achieving the title of distinguished National Researcher from the Student Research Committee of the Ministry of Health of Iran. (2023).
- Member of the Office of Brilliant Talent, Hamadan University of Medical Sciences (2023)
- Award in certificate of appreciation for achieving 1th Rank between M.Sc. Entrances, Kermanshah University of Medical Sciences, Kermanshah, Iran. (2013-2016).
- Member of the Office of Brilliant Talent, Kermanshah University of Medical Sciences (2013-2016)

Teachings

- Statistical Methods (III) (for MSc students)
- Advanced Statistics in Clinical Psychology (for MSc students)
- Application of Statistical Methods in Environmental Health (for MSc students)
- Advanced Biostatistics (for MSc& BSc students)
- Inferential Biostatistics (for BSc students)
- Basic Biostatistics (for BSc students)

Refereeing in journals

- Scientific Reports
- BMC Public health
- BMC Nephrology
- BMC Nursing
- International Journal of Emergency Medicine
- Journal of research in health sciences
- Iranian Journal of Ergonomics

Publication papers

Full Papers (See all articles at the following address)

https://scholar.google.com/citations?hl=en&user=BS-rxY0AAAAJ&view_op=list_works&gmla=AH8HC4y-VxdH7zv7sHBuhImplJccJ57WqUGJK6XZcq_ITiRoywU2VZdxZnjfKi4MDXSXy9PdZXEktp5pI2Dof0lYIRq2p6jR82Dv-1PnD-d_8xe7LZoRcXL5uUI0fMdmZK4s4Jlsuf8A1a8

Selected Papers

- **Manoochehri Z**, Manoochehri S, Bagheri SR, Abdi A, Alimohammadi E. Machine learning applications in forecasting patient satisfaction and clinical outcomes after carpal tunnel release: a retrospective study. *BMC Musculoskeletal Disorders*. 2025;26(1):813.
- Kakaei S, Hassan NE, Nakhaee S, **Manoochehri Z**, Mansouri B, Elahi A, et al. Associations between essential trace elements and sleep quality in Iranian adults based on the Pittsburgh Sleep Quality Index. *Scientific Reports*. 2025;15(1):19713.
- Hassan NE, Nakhaee S, **Manoochehri Z**, Bousaeedi A, Mansouri B, Rezaei A. Serum levels of trace elements in diabetic pregnant women and their relationship with growth indicators in newborns. *Scientific Reports*. 2025;15(1):18382.
- Sharafi K, Nakhaee S, Hassan NE, **Manoochehri Z**, Haseli A, Mansouri B, et al. Relationships of the serum levels of toxic trace elements in pregnant women versus exposure to second-hand smoke. *Scientific Reports*. 2025;15(1):7180.
- Manoochehri S, **Manoochehri Z**, Asadi FT, Soltanian AR. A multilevel analysis of factors associated with wasting in children one to two years old in Hamadan city. *Scientific Reports*. 2024;14(1):28553.
- Manoochehri S, **Manoochehri Z**, Lorestani T, Zamani M. Identifying the Most Important Factors Associated with Multiple Sclerosis Using the Decision Tree Method. *Iranian biomedical journal*. 2024;28:52.
- **Manoochehri Z**, Rajati F, Rezaei M, Faradmal J. Factors influencing smoking cessation attempts and success in Iranian male adults: national survey data. *BMC Public Health*. 2024;24(1):1654.
- **Manoochehri Z**, Moghimbeigi A, Ezzati-Rastegar K, Faradmal J. Pattern of weight gain in pregnant women in slum areas of Hamadan using multilevel ordinal regression. *BMC Public Health*. 2023;23(1):187.
- **Manoochehri Z**, Faradmal J, Moghimbeigi A. Modeling of smoking intensity by age at smoking onset among Iranian adult male using generalized additive model. *Scientific Reports*. 2022;12(1):16700.
- **Manoochehri Z**, Barati M, Faradmal J, Manoochehri S. Random forest model to identify factors associated with anabolic-androgenic steroid use. *BMC Sports Science, Medicine and Rehabilitation*. 2021;13(1):30.
- **Manoochehri Z**, Manoochehri S, Soltani F, Tapak L, Sadeghifar M. Predicting preeclampsia and related risk factors using data mining approaches: A cross-sectional study. *International Journal of Reproductive BioMedicine*. 2021;19(11):959.

- **Manoochehri Z**, Rezaei M, Salari N, Khazaie H, Pavah BK, Manoochehri S. The Prediction of Obstructive Sleep Apnea Using Data Mining Approaches. Archives of Iranian Medicine (AIM). 2018;21(10).
- **Manoochehri Z**, Salari N, Rezaei M, Khazaie H, Manoochehri S, Pavah BK. Comparison of support vector machine based on genetic algorithm with logistic regression to diagnose obstructive sleep apnea. Journal of Research in Medical Sciences. 2018;23(1):65.
- Hashemian AH, Manoochehri S, Afshari D, **Manoochehri Z**, Salari N, Shahsavari S. Prognosis of multiple sclerosis disease using data mining approaches random forest and support vector machine based on genetic algorithm. 2019.

Interests

- Biostatistics
- Artificial intelligence
 - Data Mining
 - Deep Learning
 - Machine Learning

Computer Skills

- R programming software
- Python programming software
- ArcGIS spatial information systems software
- SPSS, STATA, Minitab, GraphPad Prism and Medcalc statistical software