

## Curriculum Vitae (CV) (Updated: 28/11/2023)



### Personal Information:

**Name:** Dr. Farzan Madadizadeh

**Date of Birth:** 12/03/1990

**Nationality:** Iranian

**Place of birth:** Kerman, Iran

**Gender:** Male

**Marital status:** Single (never married)

#### Occupation:

Associate Professor of Biostatistics, Department of Epidemiology and Biostatistics, School of Health, Shahid Sadoughi University of Medical Sciences (SSU), Yazd, Iran. ([ssu.ac.ir](http://ssu.ac.ir))

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### Current Position:

Associate Professor of Biostatistics, Department of Epidemiology and Biostatistics, School of Health, Shahid Sadoughi University of Medical Sciences (SSU), Yazd, Iran. Since 2019 to present

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## Educational Background:

Degree obtained	Place	Date
BSc. in Statistics	Department of statistics, <b>Shahid Bahonar University of Kerman, Kerman, Iran.</b>	2008- 2012
M.Sc. in Biostatistics	Department of Epidemiology and Biostatistics, School of Health, <b>Kerman University of Medical Sciences, Kerman, Iran.</b>	2012- 2015
Ph.D. in Biostatistics	Department of Epidemiology and Biostatistics, School of Public Health, <b>Tehran University of Medical Sciences, Tehran, Iran.</b> (Ranked #301 in QS WUR Ranking By Subject 2022).	2015- Jan 2019

**Topic of B.Sc Thesis:** Investigating the characteristics of thalassemia minor patients in the Samen Al-Hajjaj Medical Center, Kerman, Iran, 2012,  
**Supervised by:** Dr. Vahid Amirzadeh.

**Topic of M.Sc Thesis:** Prediction of breast cancer mortality by hidden Markov model

**Supervised by:** Dr. Abbas Bahrapour.

**Topic of Ph.D Thesis:** Extension of Bayesian Network Rules to higher-order hidden Markov models.

**Supervised by:** Dr. Hojjat Zaraati.

## Grants Received (Funding):

[Strategies and Challenges for Managing Human Influenza in the Iranian hospitals: A Qualitative Study in Yazd province, Central part of Iran](#)

Ministry of Health and Medical Education and Yazd university of medical sciences, Iran (Tehran & Yazd) 2019-2021 | Grant

[Spatial analysis of the COVID-19 prevalence pattern in Yazd province, Central part of Iran \(February 2020 to January 2021\)](#)

Ministry of Health and Medical Education and Yazd university of medical sciences, Iran (Tehran & Yazd) 2020-2022 | Grant

[Investigating the status of lifestyle behaviors: Nutritional habits, Daily activities and Sleep Patterns during the Covid-19 pandemic in Iranian people](#)

Ministry of Health and Medical Education and Yazd university of medical sciences,  
Iran (Tehran & Yazd) 2021-2024 | Grant

**Link of research profile:**

**Web of science:**

<https://www.webofscience.com/wos/author/record/P-6044-2019>

**Google.scholar.**

<https://scholar.google.co.uk/citations?user=6CLbmH8AAAAJ&hl=en&newwindow=1>

**Scopus:** <https://www.scopus.com/authid/detail.uri?authorId=57188822072>

**Publication:**

**A) All Published articles**

1. **Madadizadeh F**, Bahariniya S. Tutorial on how to Calculating content validity of scales in medical research. Perioperative Care and Operating Room Management. 2023:100315.
2. **Madadizadeh F**, Ghafari H, Bahariniya S. Kappa statistics a method of measuring agreement in dental examinations. 2023.
3. **Madadizadeh F**, Bahariniya S. Tutorial on Statistical Data Reduction Methods for Exploring Dietary Patterns. Clinical Nutrition ESPEN. 2023.
4. Bahariniya S, Ghanbari M, Asar ME, **Madadizadeh F\***. COVID-19 AND NEGLECT OF CARDIOVASCULAR DISEASES TREATMENT. Pakistan Heart Journal. 2022 Dec 31;55(4):423-4.
5. Zare F, Ameri H, **Madadizadeh F**, Aghaei MR. Validity and reliability of the EQ-5D-3L (a generic preference-based instrument used for calculating quality-adjusted life -years) for patients with type 2 diabetes in Iran. Diabetes Metab Syndr. 2022;15(1):319-24.
6. Yarmohammadi P, Morowatisharifabad MA, Khayyatzadeh SS, **Madadizadeh F**, Rahaei Z. Nutrition literacy and its related demographic factors among workers of Taraz Chaharmahal Steel Company, Chaharmahal and Bakhtiari, Iran. Frontiers in Public Health. 2022:2671.
7. Yarmohammadi P, Ali Morowatisharifabad M, Saeid Khayyatzadeh S, **Madadizadeh F**, Rahaei Z. Psychometric Properties of the Mobile Health Literacy Scale in the Workers of an Automotive Metal Sheet Factory in Shahrekord, Iran. HLRP: Health Literacy Research and Practice. 2022;6(4):e257-e61.

8. Tran KB, Lang JJ, Compton K, Xu R, Acheson AR, Henrikson HJ, et al. The global burden of cancer attributable to risk factors, 2010–19: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet*. 2022;400(10352):563-91.
9. Tavassolmand SS, Montazeri A, **Madadizadeh F**, Dehghan HR, Ranjbar M, Ameri H. Translation and validation of the Persian version of diabetic foot ulcer scaleshort form (DFS-SF). *International Wound Journal*. 2022.
10. Taheri Soodejani M, Hosseini S, Sefidkar R, **Madadizadeh F**, Fallahzadeh H, Dehghan A, et al. Comorbidity and its Impact on mortality of COVID-19 in Yazd province, a central part of Iran: a hospital-based study. *Journal of Community Health Research*. 2022;11(2):137-41.
11. Soghra Nasrolahi JS-Y, Mohammad Hassan Ehrampoush, **Farzan Madadizadeh**, Elham Khalili. Evaluation of rheological and optical properties plus stability of beverage cloud emulsions prepared with corn oil, gum rosin, and modified starch. *Food Science & Nutrition*. 2022;15(3):303.
12. Sharma R, Abbasi-Kangevari M, Abd-Rabu R, Abidi H, Abu-Gharbieh E, Acuna JM, et al . Global, regional, and national burden of colorectal cancer and its risk factors, 1990–2019: a systematic analysis for the Global Burden of Disease Study 2019. *The Lancet Gastroenterology & Hepatology*. 2022.
13. Shamsavani E, Ehrampoush MH, Samaei MR, Mehrizi EA, **Madadizadeh F**, Abbasi A, et al. Real and Synthetic Greywater Treatment by a Combined Process of Ozonation, Granular Activated Carbon, and Ultrafiltration. *Health Scope*. 2022;11(2).
14. Shafii M, Asqari R, Rahimi MK, Ranjbar M, **Madadizadeh F**, Jafarian F. Prioritization of Factors Related to Attracting Medical Tourists in Yazd City, Iran. *Health Information Management*. 2022;18(6):248-57.
15. Shafii M, Askari R, **Madadizadeh F**, Zarezadeh M, Abdoli AM, Bahariniya S. Development and validation of medical tourists attracting factors scale (MTAF-46). *International Journal of Healthcare Management*. 2022:1-12
16. .Sepanlou SG, Aliabadi HR, Naghavi M, Malekzadeh R. Neonate, Infant, and Child Mortality by Cause in Provinces of Iran: An Analysis for the Global Burden of Disease Study 2019. *Archives of Iranian Medicine (AIM)*. 2022;25(8).
17. Sefidkar R, **Madadizadeh F\***. A Tutorial on Quasi-Experimental Designs. 2022.
18. Sangouni AA, Sangsefidi ZS, Yarhosseini F, Hosseinzadeh M, Akhondi-Meybodi M, Ranjbar A, et al. Effect of Cornus mas L. fruit extract on lipid accumulation product and cardiovascular indices in patients with non-alcoholic fatty liver disease: a double-blind randomized controlled trial. *Clinical Nutrition ESPEN*. 2022;47:51-7
19. Sadeqi-Arani A ,Sadeqi-Arani Z, Askari R, **Madadizadeh F**, Bahrami MA, Rahati M, et al. Investigating the status of hospitals in Kashan, Aran and Bidgol cities in achieving health promotion standards in 2020. *Management Strategies in Health System*. 2022;7(3):292-300.
20. Saber K, Hamzian N, **Madadizadeh F\***. COVID-19 Anxiety and Related Factors in Cancer Patients Undergoing External Radiation Therapy. *Asian Pacific Journal of Cancer Care*. 2022;7(3):451-8.

21. Raadabadi M, Emamgholipour S, Daroudi R, **Madadizadeh F**, Veisi A. Health-related quality of life among adult patients with visual impairments in Yazd, Iran. *Journal of Education and Health Promotion*. 2022;11(1):242.
22. Peden AE, Cullen P, Francis KL, Moeller H, Peden MM, Ye P, et al. Adolescent transport and unintentional injuries: a systematic analysis using the Global Burden of Disease Study 2019. *The Lancet Public Health*. 2022;7(8):e657-e69.
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24. Nasrolahi S, Sadeghizadeh-Yazdi J, Ehrampoush MH, **Madadizadeh F**, Khalili E. Evaluation of rheological and optical properties plus stability of beverage cloud emulsions prepared with corn oil, gum rosin, and modified starch. *Food Science & Nutrition*. 2022.
25. **Madadizadeh F**, Khaledi E, Qomi M. Tutorial on Applied Study Designs in Medical Research. *Journal of Community Health Research*. 2022;11(3):202-9.
26. **Madadizadeh F**, Ghelmani SY, Fallah Tafti T. Spatial and temporal analysis of the COVID-19 incidence pattern in Yazd province, Central part of Iran (February 2020 to January 2021). *Journal of Community Health Research*. 2022;11(1):36-44.
27. **Madadizadeh F**, Bahariniya S. Frequency of the Statistical Methods and Relation with Acceptance Period in Archives of Iranian Medicine Articles: A Review from 2015–2019. *Archives of Iranian Medicine*. 2022;25(4):267-73.
28. **Madadizadeh F**, Bahariniya S. Statistical Methods Used in Iranian Red Crescent Medical Journal Articles and Their Relationship with Acceptance Period: A Review from 2014-2021. *Iranian Red Crescent Medical Journal*. 2022;24(6).
29. **Madadizadeh F**. A tutorial on Quasi-experimental designs. *Journal of Community Health Research*. 2022;11(1):3-4.
30. Kyu HH, Vongpradith A, Sirota SB, Novotney A, Troeger CE, Doxey MC, et al. Age–sex differences in the global burden of lower respiratory infections and risk factors, 1990–2019: results from the Global Burden of Disease Study 2019. *The Lancet Infectious Diseases*. 2022;22(11):1626-47.
31. Jafari Nodoushan R, Taherzadeh Chenani K, Jahangiri M, **Madadizadeh F**, Fallah H. Quantification of the impact of factors affecting the technical performance of operating room personnel: Expert judgment approach. *Journal of Healthcare Risk Management*. 2022;41(4):9-16.
32. Ghaneapur M., **Madadizadeh F**. Promoting community health by applying a new technique (fMRI) to treat neurological diseases in the health system. *Journal of Community Health Research*. 2022;11(2):54-6.
33. **Madadizadeh F**, Ezati M, SBaharinia. Coronavirus Disease (COVID-19) and Burnout in Nurses. *SSU*; 2022. p. [https://ccbjournal.ssu.ac.ir/article\\_266](https://ccbjournal.ssu.ac.ir/article_266).

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35. Fallah B, Moghanippur F, Nasiriani K, **Madadzadeh F**, Mehrabbeik A. A Comparative Study of the Effect of Family-centered and Patient-centered Education on Self-efficacy and Self-esteem of Patients with Type II Diabetes. 2022.
36. Ebrahimzadeh Abarghoee S, Halvani GH, Kargar-Shouroki F, Mihanpour H, **Madadzadeh F**. Job Stress among Workers Exposed to Extremely Low Frequency Electric and Magnetic Fields in a Combined Cycle Power Plant. *Journal of Environmental Health and Sustainable Development*. 2022;7(2):1614-22.
37. Dastoorpoor M, Khodadadi N, **Madadzadeh F**, Raji H, Shahidizadeh E, Idani E, et al. Assessing the prevalence and severity of asthma, rhinitis, and eczema among schoolchildren (6–7 and 13–14 years old) in Khuzestan, Iran: a cross-sectional survey. *BMC pediatrics*. 2022;22(1):1-10.
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39. Chenani KT, Nodoushan RJ, Jahangiri M, **Madadzadeh F**, Fallah H. Adaptation of the standardized plant analysis–risk human reliability analysis technique for the surgical setting: expert judgment approach. *International Journal of Occupational Safety and Ergonomics*. 2022:1-8.
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42. Bahariniya S, Shafii M, **Madadzadeh F\***, Sharif Yazdi M. Strategies and Challenges for Managing Human Influenza in the Iranian hospitals: A Qualitative Study in Yazd province, Central part of Iran. *Journal of Community Health Research*. 2022;11(2):126-36.
43. Bahariniya S, **Madadzadeh F\***, Khaledi E, Qomi M. Tutorial on Applied Study Designs in Medical Research. 2022.
44. Bahariniya S, Ezati Asar M, **Madadzadeh F\***. Caring of Health Care Team in COVID-19 Crisis. *Evidence Based Health Policy, Management and Economics*. 2022;44-35:(3)8;
45. Atfannezhad M, Sharifi M, **Madadzadeh F**, Ameri H. Utility Values in Colorectal Cancer Patients Treated with Chemotherapy. *Cancer Investigation*. 2022;40(1):46-54.
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47. Abbasi KM, Moghaddam S, Ghamari S H, Azangou KM, Malekpour M R, Rezaei N, et al. The burden of prostate cancer in North Africa and Middle East, 1990–2019: Findings from the global burden of disease study. 2022.
48. Tavangar H, **Madadzadeh F**, Kalani Z, Rizi RB, Tavakoli Z, Abad MSA. Evaluation of the effect of individual education-supported needs assessment for anxiety among elderly candidates of open-heart surgery. *Int J Epidemiol Health Sci.* 2021;2(8):18-30.
49. Taherzadeh CK, **Madadzadeh F\*** Guideline for Selecting Types of Reliability and Suitable Intra-class Correlation Coefficients in Clinical Research. *Journal of biostatistics and epidemiology*, 2021.
50. Sefidkar R, **Madadzadeh F\***. A summary of the main actions of the Iranian government during the Covid-19: From March 5 until December 20 in 2020. *Journal of Community Health Research.* 2021;10(1):1-3.
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52. Nodoushan RJ, **Madadzadeh F**, Anoosheh VS, Boghri F, Chenani KT. Mental workload and occupational burnout among the faculty members and administrative staff of Yazd Public Health School. *Journal of Education and Health Promotion.* 2021;10.
53. Mandegari Bamakan Z, Nasiriani K, **Madadzadeh F**, Keshmiri F. Effect of an aged wearing suit on nursing student's knowledge and attitude. *BMC nursing.* 2021;20(1):1-8.
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57. Kargar-Shouroki F, Miri M, Sakhvidi MJZ, Sangchi SZH, , **Madadzadeh F**. Genotoxic effect of exposure to polycyclic aromatic hydrocarbons (PAHs) in asphalt workers. *EXCLI journal.* 2021;20:686.
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60. ForouzanZare, HoseinAmeri, , **Madadizadeh F**, Aghaei MR. Validity and reliability of the EQ-5D-3L (a generic preference-based instrument used for calculating quality-adjusted life - years) for patients with type 2 diabetes in Iran. *Diabetes & Metabolic Syndrome: Clinical Research & Reviews*. 2021;9(In Press):In Press.
61. Dastoorpoor M, Khodadadi N, , **Madadizadeh F**, Shahidizadeh E, Shoushtari MH ,Raji H, et al. Risk factors for current wheeze among school children (6–7 and 13–14 years old) in Khuzestan, Iran. *Public Health in Practice*. 2021;2:100172
62. Chenani KT, Nodoushan RJ, Nodoushan MAG, Boghri F, , **Madadizadeh F**. The effect of integrated management system establishment on safety performance indices: Case study in one manufacturing industry. *International Journal of Occupational Hygiene*. 2021;13(3):xxx-xxx.
63. Chenani KT, Nodoushan RJ, Jahangiri M, , **Madadizadeh F**, Fallah H. Quantification of the Impact of Factors Affecting the Technical Performance of Operating Room Personnel: Expert Judgment Approach. 2021.
64. Basti M, , **Madadizadeh F\***. A beginner's Guide to Sampling Methods in Medical Research. *Critical Comments in Biomedicine*. 2021;2(2.(
65. Bahariniya S, , **Madadizadeh F\***, Ezati Asar M. Using Face Masks as a Cheap and Critical Tool in Reducing COVID-19 Spread. *Critical Comments in Biomedicine*. 2021;2(2.(
66. Bahariniya S, , **Madadizadeh F\***. Alcohol: A Double-Edged Sword in the Against Against COVID-19. 2021.
67. Bahariniya S, , **Madadizadeh F\***. Review of the Statistical Methods Used in Original Articles Published in Iranian Journal of Public Health from 2015–2019: A Review Article. *Iranian Journal of Public Health*. 2021;50(8):1577
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72. Ahmadi M, , **Madadizadeh F**, Afkhami Aghda M, Khodayarian M. Designing and Implementing Virtual Education Course of Media Literacy for Medical Sciences Students: An Experimental Study. *Journal of Health Literacy*. 2021;6(3):32-46.
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107. **Madadizadeh F**, Ezatiasar M, Bahrapour A, Montazeri M, editors. Liver Disease Recognition: A Discrete Hidden Markov Model. 3rd international conference of Science and Engineering, Istanbul, Turkey; 2016.
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110. **Madadizadeh F** Bayesian statistical methods and their valuable applications in the pharmaceutical sciences. 2016.
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114. Majid Heidari J, **Madadizadeh F**, Asma S. < The> comparison of quality of life among hem dialysis and peritoneal dialysis patients in Kerman. 2015.
115. **Madadizadeh F**, Montazeri M, Bahrampour A, editors. Predicting the survival in breast cancer using Hidden Markov Model. 10th International Breast Cancer Congress; 2015.
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119. **Madadizadeh F**. The difference between statistical concepts as standard deviation and standard error and how to correct their report in the medical articles. Iranian Journal of Medical Education. 2015;15:353-5.
120. **Madadizadeh F** , Sabermahani A. The comparison of quality of life among hem dialysis and peritoneal dialysis patients in Kerman. Journal of Health Based Research. 2015;1(2):95-104.
121. Shahsavani E, Ehrampoush MH, Samaei MR, Abouee Mehrizi E, **Madadizadeh F**, Abbasi A, et al. Performance evaluation of the combined process of ozonation, biological activated carbon reinforced by bacterial consortium, and ultrafiltration in greywater treatment. Environmental Health Engineering And Management Journal.0.-
122. **Madadizadeh F** .Ezati Asar M, Hosseini M (2015) Common statistical mistakes in descriptive statistics reports of normal and non-normal variables in biomedical sciences research. Iran J Public Health.44(11):1557-8.
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124. **Madadizadeh F**, Mitra M, Abbas B. Predicting the survival in breast cancer using Hidden Markov Model.
125. **Madadizadeh F\*** .the relationship between self-regulation learning strategies, motivational beliefs and the academic performance of students at Alborz University of Medical Sciences in 2016.

## B) Publication With Statistical Background

1. **Madadzadeh F**, Bahariniya S. Tutorial on how to Calculating content validity of scales in medical research. *Perioperative Care and Operating Room Management*. 2023:100315.
2. **Madadzadeh F**, Ghafari H, Bahariniya S. Kappa statistics a method of measuring agreement in dental examinations. 2023. *The open public health journal*.(Accepted)
3. **Madadzadeh F**, Bahariniya S. Tutorial on Statistical Data Reduction Methods for Exploring Dietary Patterns. *Clinical Nutrition ESPEN*. 2023.
4. **Madadzadeh F**, Khaledi E, Qomi M. Tutorial on Applied Study Designs in Medical Research. *Journal of Community Health Research*. 2022;11(3):202-9.
5. **Madadzadeh F**, Ghelmani SY, Fallah Tafti T. Spatial and temporal analysis of the COVID-19 incidence pattern in Yazd province, Central part of Iran (February 2020 to January 2021). *Journal of Community Health Research*. 2022;11(1):36-44.
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7. **Madadzadeh F**, Bahariniya S. Statistical Methods Used in Iranian Red Crescent Medical Journal Articles and Their Relationship with Acceptance Period: A Review from 2014-2021. *Iranian Red Crescent Medical Journal*. 2022;24(6.(
8. **Madadzadeh F**. A tutorial on Quasi-experimental designs. *Journal of Community Health Research*. 2022;11(1):3-4.
9. Bahariniya S, Ezatiasar M, , **Madadzadeh F\***. A Brief Review of the Types of Validity and Reliability of scales in Medical Research. *Journal of Community Health Research*. 2021;10(2):100-2.
10. Bahariniya S, , **Madadzadeh F\***. Review of the Statistical Methods Used in Original Articles Published in Iranian Journal of Public Health from 2015–2019: A Review Article. *Iranian Journal of Public Health*. 2021;50(8):1577
11. Basti M, , **Madadzadeh F\***. A beginner's Guide to Sampling Methods in Medical Research. *Critical Comments in Biomedicine*. 2021;2(2.(

12. **Madadizadeh F**, Sefidkar R. Ranking and Clustering Iranian Provinces Based on COVID-19 Spread: K-Means Cluster Analysis. *Journal of Environmental Health and Sustainable Development*. 2021;6(1):1184-95.
13. Taherzadeh CK, **Madadizadeh F\*** Guideline for Selecting Types of Reliability and Suitable Intra-class Correlation Coefficients in Clinical Research. *Journal of biostatistics and epidemiology*, 2021.
14. **Madadizadeh F**, Yarahmadi M, Zeraati H. Application of Hidden Markov Model to Identify Disease Progression Process in Medical Research. . *Iranian Journal of Public Health*.. 2019.
15. Ghanbari-Firoozabadi M, Mirzaei M, Nasab MV, Grace SL, Okati-Aliabad H, , **Madadizadeh F\***, et al. Cross-cultural adaptation and psychometric validation of the Persian version of the Cardiac Rehabilitation Barriers Scale (CRBS-P). *BMJ open*. 2020;10(6):e034552.
16. Khammar A, Yarahmadi M, , **Madadizadeh F\***. What is analysis of covariance (ANCOVA) and how to correctly report its results in medical research? . *Iranian Journal of Public Health*.. 2020;49(5):1016-7.
17. Taherzadeh CK, , **Madadizadeh F\***. Popular Statistical Tests for Investigating the Relationship between Two Variables in Medical Research. *Journal of Community Health Research*. 2020;9(1):1-3.
18. **Madadizadeh F**, Rezaeitabar V, Zeraati H. Introduction to Spatial First Order Discrete HMM . *Annals of Biometrics & Biostatistics*. 2019;4(1):13-22.
19. **Madadizadeh F**, Rezaeitabar V, Bahrampour A, Montazeri M, Batmanghelich N, Zeraati\* H. Using Biochemical Liver Function Tests to Identify Liver Cirrhosis Progression Process and Diagnose it from other Liver Diseases: Applying Hidden Markov Model. *J Biochem Tech*. 2019;8(2):81-7
20. **Madadizadeh F** , Vahid Ghavami. Applying Additive Hazards Models for Analyzing Survival in Patients with Colorectal Cancer in Fars Province, Southern Iran. *Asian Pacific Journal of Cancer Prevention*. 2017;18(4):1077-83.

21. Aghamolaei T, **Madadizadeh F** , Ghanbarnejad A. Confirmatory factor analysis of the Persian version of the multidimensional health locus of control scale - Form A *Journal of Biostatistics and Epidemiology*. 2017;3(1):20-8.
22. **Madadizadeh F** ,Zeraati H, Rezaei Tabar V, Abbas Bahrapour A, editor Discrete Hidden Markov model as an identification tool of liver cirrhosis. 11th Seminar on Probability and Stochastic Processes- Ghazvin; Iran, 2017.
23. **Madadizadeh F** ,Zeraati H, Rezaei Tabar V, Abbas Bahrapour A. A new approach in classification discrete survival data by discrete hidden Markov model. The 39th Conference on Stochastic Processes and their Applications -Russia; 2017.
24. **Madadizadeh F**, ghanbarnejad A, zeraati H, al e, editors. Spatial first order discrete hidden Markov model. 2nd Seminar of Spatial Statistics and Its Application; 2017.
25. N Khanjani AA, **Madadizadeh F\***, . The Role of Season and Climate in the Incidence of Congenital Hypothyroidism in Kerman Province, Southeastern Iran. *J Pediatr Endocrinol Metab*. 2016;30(2):149–57.
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30. **Madadzadeh F**, Montazeri M, Bahrampour A. Predicting of liver disease using Hidden Markov Model. *Razi Journal of Medical Sciences*. 2016;23(146):66-74.
31. **Madadzadeh F**, Mitra M, Abbas B, editors. Comparison of Hidden Markov Model and Logistic Regression in prediction of Breast Cancer mortality. 13th Iranian Statistical Conference ; Kerman, Iran; 2016.
32. **Madadzadeh F** .Ezati Asar M, Hosseini M (2015) Common statistical mistakes in descriptive statistics reports of normal and non-normal variables in biomedical sciences research. *Iranian Journal of Public Health*.2015. 44(11):1557-8
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34. **Madadzadeh F** Bahrampour A. Mortality prediction of breast cancer patients using Hidden Markov model: School of Health, Kerman University of Medical Sciences, Kerman, Iran; 2015.
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\*Means Corresponding Author

### **C) Paper under review in Scientific journals:**

1. Survival prediction of Ovarian cancer patients using Bayesian networks. (iranian journal of public health) 2022-2023
2. Chemical pregnancy and related factors: applying multilevel logistic regression (International Journal of Fertility and Sterility)2022-2023
3. Second order hidden Markov model based on the second order emission probability. 2022-2023(IJPH)
4. Protein Secondary Structure Prediction through Second-order Hidden Markov Model (Bionformatic)



5. Tutorial on second order hidden Markov models using Bayesian networks perspective(Stat. in Med)
6. ...

#### D) Conference Papers:

1. **Madadzadeh F**, Modeling the COVID-19 pandemic and estimating the basic reproductive number using time series Susceptible-Infected-Recovered (TSIR) models in Iran. **10th National and 3rd International Iranian Congress of Epidemiology, Tehran, Iran, 2023.**
2. **Madadzadeh F**, Investigating the factors related to the incidence of chemical pregnancy: a two-level logistic regression modeling approach. **10th National and 3rd International Iranian Congress of Epidemiology, Tehran, Iran, 2023.**
3. **Madadzadeh F**, The Acceptance of Information and Communication Technology and Related Factors among Older Adults; A Cross-Sectional Study in Iran. **10th National and 3rd International Iranian Congress of Epidemiology, Tehran, Iran, 2023.**
4. **Madadzadeh F**, Tutorial on Bonferroni test as a Post Hoc analysis of a chi-squared test: Methodology article **10th National and 3rd International Iranian Congress of Epidemiology, Tehran, Iran, 2023.**
5. **Madadzadeh F**, Investigating the Performance of Bayesian Networks in Predicting 5-Year Survival of Breast Cancer Patients: A Systematic Review and Meta-Analysis **10th National and 3rd International Iranian Congress of Epidemiology, Tehran, Iran, 2023.**
6. **Madadzadeh F**, Predicting the survival of ovarian cancer patients and related factors using Bayesian network model. 16<sup>th</sup> Iranian Statistical Conference, **Mazandaran, Iran, . 2022 (Oral presentation).**
7. **Madadzadeh F**, Protein Secondary Structure Prediction Through Second Order Hidden Markov Model. 15<sup>th</sup> Iranian Statistical Conference, **Yazd, Iran, . 2020 (Oral presentation).**
8. **Madadzadeh F**, Statistical method in infection disease modeling. webinar on management and control for covid 19. , **Yazd, Iran, . 2020 (Oral presentation).**
9. **Madadzadeh F**, Shafie T, Review of sample size calculation in Non- inferiority clinical trial. 9<sup>th</sup> Iranian congress of epidemiology, , **Tehran, Iran 22-24-October 2019 (Poster Presentation)..**
10. **Madadzadeh F**, Zeraati H, Rezaieatabar V, Bahrapour A, A new approach in classification discrete survival data by discrete hidden Markov model. The 39th Conference on Stochastic Processes and their Applications; **Moscow-Russia; 2017, (Oral Presentation).**
11. **Madadzadeh F**, Zeraati H, Rezaieatabar V, Bahrapour A . Discrete Hidden Markov model as an identification tool of liver cirrhosis. 11th Seminar on Probability and Stochastic Processes- **Ghazvin; Iran, 2017, (Poster Presentation).**

12. **Madadzadeh F**, Ghanbarnejad A, Zeraati H. Spatial first order discrete hidden Markov model. 2nd Seminar of Spatial Statistics and Its Application; **Shahroud, Iran**, 2017, (**Oral Presentation**).
13. **Madadzadeh F**, Montazeri M, Bahrampour A, . Comparison of Hidden Markov Model and Logistic Regression in prediction of Breast Cancer mortality. 13th Iranian Statistical Conference ; **Kerman, Iran**; 2016, (**Oral Presentation**).
14. **Madadzadeh F**, Bahrampour A, Montazeri M, . Liver Disease Recognition: A Discrete Hidden Markov Model. 3rd international conference of Science and Engineering, At **Istanbul, Turkey**; 2016, (**Oral Presentation**).
15. Khanjani N, Ahmadzadeh A, **Madadzadeh F\***. the Season and Climate role's in the Incidence of Congenital Hypothyroidism in Kerman ProviThe Role ofSeason and Climate in the Incidence of Congenital Hypothyroidism in Kerman Province. the 28th Annual Conference of the International Society for Environmental Epidemiology, **Rome, Italy**; 2016, (**Oral Presentation**).
16. **Madadzadeh F**, Ghanbarnejad A, Ghavami V. Applying Aalen's additive hazard model for analyzing 5 years survival in patients with colorectal cancer in Fars province, Southern Iran. The 4th International conference of Science and Engineering **Italy- Rome** ,10th of July 2016; (**Oral Presentation**).
17. **Madadzadeh F**, Montazeri M, Bahrampour A. Predicting the survival in breast cancer using Hidden Markov Model. 10th International Breast Cancer Congress; Shahid Beheshti University of Medical Sciences, **Tehran, Iran**, 2015, (**Poster Presentation**).

### **Workshops Attended:**

Research methodology (SSU;2023)

- ✓ Innovative Teaching Methods - Interactive lessons(SSU;2022)
- ✓ Innovative Teaching Methods - Using virtual reality technology
- ✓ Innovative Teaching Methods - Using AI in education
- ✓ Innovative Teaching Methods - Blended learning
- ✓ Innovative Teaching Methods - 3D printing
- ✓ Innovative Teaching Methods - Use the design-thinking process
- ✓ Innovative Teaching Methods - Project-based learning
- ✓ Innovative Teaching Methods - Inquiry-based learning
- ✓ Innovative Teaching Methods - Jigsaw
- ✓ Innovative Teaching Methods - Cloud computing teaching
- ✓ Innovative Teaching Methods - Flipped Classroom
- ✓ Innovative Teaching Methods - Peer teaching

- ✓ Innovative Teaching Methods - Peer feedback
- ✓ Innovative Teaching Methods - Crossover teaching
- ✓ Innovative Teaching Methods - Personalised teaching
- ✓ Data mining methods
- ✓ Entrepreneurial skills - Business management skills (SSU;2021)
- ✓ Entrepreneurial skills- Teamwork and leadership skills
- ✓ Entrepreneurial skills- Communication and listening
- ✓ Entrepreneurial skills- Customer service skills
- ✓ Entrepreneurial skills- Financial skills
- ✓ Entrepreneurial skills- Analytical and problem-solving skills
- ✓ Entrepreneurial skills- Critical thinking skills
- ✓ Entrepreneurial skills- Strategic thinking and planning skills
- ✓ Entrepreneurial skills- Technical skills
- ✓ Entrepreneurial skills- Time management and organizational skills
- ✓ Entrepreneurial skills- Branding, marketing and networking skills
- ✓ Bayesian statistics (2020)
- ✓ Simulation (2020)
- ✓ Survey sampling designs (2020)
- ✓ Cluster randomized trials (2020)
- ✓ Introduction to programming with R software (TUMS; 2016)
- ✓ Understanding Bayesian and spatial analysis Using BUGS Software (IPM; 2015)
- ✓ Sampling method and calculation of sample size (KMU; 2014)
- ✓ Introduction to Research Methodology and Epidemiological Studies (KMU; 2012)
- ✓ Scientific Writing (KMU; 2013)
- ✓ Structural Equation modeling (SEM) (TUMS; 2014)
- ✓ Systematic Review and Meta-Analysis (TUMS; 2015)

### **Honor:**

- Meshkani's award of Iranian Statistical society for the statistics enrichment activities (2017).
- The youngest assistant professor in Shahid Sodoughi university of medical sciences, Yazd, Iran (2019).
- First ranked student in terms of defense of M.S.C (2015) and PhD (2019) degree among classmate.
- The best statistical reviewer in the SSU university's journals(2021).
- The best executive Manager of the SSU university's journals (2022).

## Member of Scientific Societies:

1. Member of Iranian of statistical society, 2012 to present
2. Member of Bernoulli Society (BS), 2016 to present
3. Member of International Association for Official Statistics (IAOS), 2016 to present
4. Member of International Association for Statistical Education (IASE), 2016 to present
5. Member of International Association of Survey Statisticians (IASS), 2016 to present
6. Member of COVID-19 analysis committee in Yazd province, Iran.2020 to present.

## Work Experience:

### A) Teaching Experiences:

- I have taught the following courses since 2012 to present for B.Sc., M.Sc. and Ph.D. degree students:

**Statistics:** for MSC of Biostatistics, nutrition, Operating room, Radiology, Occupational health, health care management, Health economics, Microbiology.

**Statistics:** for BSC of nutrition, Operating room, Radiology, Occupational health and medical doctors, Neursing

**Research methodology:** for BSC of nutrition, Operating room, Radiology, Occupational health and medical doctors

**Entrepreneurial skills:** for MSC and PhD students of biostatistics and epidemiology

**Statistical software:** SPSS, R, STATA, Minitab, design expert, g\*power, winbugs for all MSC, BSC, PhD students.

**Scientific search and making search sterategy:** MSC student of biostatistics.

**Multivariate statistical methods:** MSC students of biostatistics

**Categorical Data Analysis :** PhD of Biostatistics

**Scientific search and making search sterategy:** International PhD students (Pakistani students)

**BioStatistics:** International MSC students (Johns Hopkins, A Radiology student, USA)

In  
-Dept.of Epidemiology and Biostatistics ,Kerman university of medical sciences, Kerman, Iran(2014-2015). **As a MSc student of biostatistics**

-Dept.of Epidemiology and Biostatistics ,Tehran university of medical sciences, Tehran, Iran (2016-2018). **As a PhD student of Biostatistics**

-Dept.of Epidemiology and Biostatistics ,Shahid sadoughi university of medical sciences, Yazd, Iran(2018-present). **As an Assistant Professor of Biostatistics**

### **Workshops taught:**

- ✓ Sample size calculation (SSU-2023)
- ✓ Sampling methods (SSU-2022)
- ✓ Statistical method in modeling of infection diseases (SSU-2021)
- ✓ Scientific writing (SSU-2020)
- ✓ Original paper writing (SSU-2020)
- ✓ Research method (SSU-2019)
- ✓ Discriptive statistics (SSU-2019)
- ✓ Survival data analysis (TUMS; 2016)
- ✓ Generalized Linear Models (TUMS; 2016)
- ✓ Multivariate data analysis (TUMS; 2016)
- ✓ The application of SPSS software (KMU; 2015)
- ✓ Introductory coding with R (KMU; 2014)

### **B) Supervisor or Statistical consultant experiences:**

**PhD thesis:** Statistical consultant of 10 thesis

**M.Sc. Thesis:** **Supervisor of 4 Biostatistics thesis, Statistical consultant of 140 thesis**

**BSC Thesis:** Statistical consultant of 15 thesis

### **Topic of supervised statistical thesis (MSc degree):**

- 1- Ovarian cancer survival prediction by Bayesian networks models
- 2- Infertility prediction by Multilevel binary logistic regression
- 3- prediction of COVID-19 trend bin Iran: applying time series SIR models

4- Machine learning methods accuracy in prediction of Breast cancer: network meta analysis

### **C) Scientific collaboration**

- with Institute for Health Metrics and Evaluation (IHME) 2020-Present
- with Non Communicable research center Fasa University of Medical sciences, Fasa, Iran, since 2015 - continue .
- with Department of Epidemiology and Biostatistics, School of Public Health, Tehran University of Medical Sciences, Tehran, Iran. since 2015 – continue.
- Executive Manager of journal of community health research since 2019 – continue.  
[https://jhr.ssu.ac.ir/index.php?slc\\_lang=en&sid=1](https://jhr.ssu.ac.ir/index.php?slc_lang=en&sid=1)

### **D) Reviewer or Editorial board**

Editorial board of Archive of public health, since 2023

-Editorial board of American journal of theoretical and applied statistics, since 2017 – continue.

- Editorial board of Journal of community health research 2018-continue

-Reviewer of

- Iranian journal of public health (impact factor=1.47)
- The Asian Pacific Journal of Cancer Prevention (APJCP)
- Frontiers in Public Health
- BMC Public health

### **Fields of Interest:**

- Statistical data analysis,
- Study design and Methodology,
- Graphical models,
- survival analysis,
- Statistical Learning and Data Mining Methods,
- Psychometric properties of scale

### **Other Skills:**

- Expert in using statistical software and programming with SPSS, R and WinBugs, STATA, Minitab, Python and EpiData, MATLAB.
- Expert in using advanced functions in EndNote, MS-Word, MS-Excel, MS-PowerPoint and MSPublisher
- Language skill:

English (IELTS score): Writing (Good), Reading (Good), Speaking (Good), Listening (Good).

Turkish: Writing (Good), Reading (Good), Speaking (Good), Listening (Good).

Arabic: Writing (Good), Reading (Good), Speaking (moderate), Listening (moderate).

## **Hobbies:**

Sports:

- Team sports: Football, Volleyball
- Self-organised sports: jogging, walking, gym and body building

Traveling, Writing, Picnicking, Reading. Cooking

**\*\*\*“References Available Upon Request”\*\*\***