

Curriculum Vitae

(Last update: September 2024)

General information

Last name: Karamoozian

First name: Ali

Date of birth: 07/06/1990

Place of birth: Mahan, Kerman, Iran

Gender: Male

Marital status: Single

Personal information

Current position:

Assistant professor of Biostatistics at Department of Biostatistics and Epidemiology, Kerman University of Medical Sciences, Kerman, Iran

Affiliation:

Department of Biostatistics and Epidemiology, Kerman University of Medical Sciences, Kerman, Iran

Modeling in Health Research Center, Institute for Futures Studies in Health, Kerman University of Medical Sciences, Kerman, Iran

E-mail: Alikaramooz69@gmail.com

A.Karamoozian@kmu.ac.ir

Tel: +98 34 31325090

Education history

B.Sc. in Statistics: Shahid Bahonar University of Kerman, Iran (2008-2012)

M.Sc. in Biostatistics: Kerman University of Medical Sciences, Iran (2013-2016)

PhD in Biostatistics: Kerman University of Medical Sciences, Iran (2016-2020)

Thesis title

B.Sc. Project title: Introduction to skewed distributions. *Supervised by: Dr. Ahad Jamalizadeh*

M.Sc. Thesis title: Relationship between network's indicators and basic factors with dangerous behavior of injection among injecting drug users via the multiple membership multilevel model in Kerman. *Supervised by: Dr. Yunes Jahani*

PhD Thesis title: Bayesian mixture cure rate models induced by hyper Poisson frailty distribution in survival analysis based on the generalized modified Weibull distribution with an application to gastric cancer and simulation data. *Supervised by: Dr. Abbas Bahrampour & Dr. Mohammad Reza Baneshi*

Fields of interest

Survival Data Analysis

Bayesian Analysis

Multilevel Data Analysis

Longitudinal Data Analysis

Categorical Data Analysis

Multivariate Data Analysis

Spatial Data Analysis

Software

SPSS

R

MLwiN

Stata

Minitab

WinBUGS

G*Power

GraphPad Prism

Awards

Selected as the first rank in the Scientific Association of Statistics at the B.Sc. in Shahid Bahonar University of Kerman in 2012

Achieving the top rank (1st) in the M.Sc. in biostatistics of Kerman University of Medical Sciences in 2015

Achieving top rank (3rd) in the PhD entrance exam in biostatistics in 2016

Achieving the top rank (1st) in the PhD in biostatistics of Kerman University of Medical Sciences in 2020

Selected as the top graduate in PhD by the National Elite Foundation in 2021

Membership

Secretary of the Scientific Statistics Association of Shahid Bahonar University of Kerman (2011-2012)

Member of Student Research Committee of Faculty of Health in Kerman University of Medical Sciences (2013-2016)

Assistant member of Modeling in Health Research Center (since 2015)

Member of Iran's National Elites Foundation (since 2020)

Research assistant of Modeling in Health Research Center (since 2021)

Member of the Research Council of Kerman Leishmaniasis Research Center (since 2022)

Member of the editorial board of Health and Development Journal (since 2023)

Member of the Strides in Development of Medical Education Journal team (since 2023)

Head of Statistics Unit of Kerman University of Medical Sciences (since 2023)

Member of Health Think Tank of Kerman University of Medical Sciences (since 2024)

Member of the Publishing Council of Kerman University of Medical Sciences (since 2024)

Research assistant of the Faculty of Health in Kerman University of Medical Sciences (since 2024)

Work experiences

Teaching more than 200 theoretical and practical units in undergraduate, graduate courses and PhD in pharmacy of Kerman University of Medical Sciences since 2016

Holding a “Classifying Microarray Sample” workshop on a set of missions of Modeling in Health Research Center of Kerman University of Medical Sciences

Holding a “Bayesian Statistics 1” workshop on a set of missions of Modeling in Health Research Center of Kerman University of Medical Sciences

Holding a workshop on “Statistical tests and SPSS software” from the series of missions of Education Development Center (EDC) of Kerman University of Medical Sciences

Providing statistical advice to M.Sc. and PhD students from different universities

Books

- 1) **Bayesian mixture cure rate frailty models;** Induced by hyper-Poisson frailty and the generalized modified Weibull distribution. *LAP Lambert Academic Publishing*. Germany 2023. (In English)
- 2) **Modeling and Data Mining Methods for Survival Data: with an Emphasize on R Software;** Cure Models, Frailty Models, Decision Tree and Random Forest, Survival Analysis in High Dimensional Data chapters. *Gap publication*. Iran 2021. (In Persian)

English papers

- 1) **Karamoozian A**, Baneshi MR, Bahrampour A. Bayesian mixture cure rate frailty models with an application to gastric cancer data. *Stat Methods Med Res*. 2021;30(3):731–46.
- 2) **Karamoozian A**, Baneshi MR, Bahrampour A. Short-term and long-term survival of patients with gastric cancer. *Gastroenterol Hepatol from bed to bench*. 2021;14(2):115–22.
- 3) Bamorovat M, Sharifi I, **Karamoozian A**, et al. Risk factors for anthroponotic cutaneous leishmaniasis in unresponsive and responsive patients in a major focus, southeast of Iran. *PLoS One* 2018; 13: e0192236.

- 4) Bahramnejad A, Iranpour A, **Karamoozian A**, et al. Universal School-Based Intervention for Increasing Resilience, and Its Effect on Substance Use. *Child Youth Serv Rev* 2020; 105378.
- 5) Bamorovat M, Sharifi I, Dabiri S, Shamsi Meymandi S, **Karamoozian A**, Amiri R, et al. Major risk factors and histopathological profile of treatment failure, relapse and chronic patients with anthroponotic cutaneous leishmaniasis: A prospective case-control study on treatment outcome and their medical importance. *PLoS Negl Trop Dis*. 2021 Jan;15(1):e0009089.
- 6) **Karamoozian A**, Jahani Y, Shahesmaeili A, et al. Relationship between a network's indicators and basic factors with high-risk behavior of injection among injecting drug users (IDU) via the multiple membership multilevel model. *Electron physician* 2017; 9: 5318–5324.
- 7) Aboubakri O, Shoraka HR, **Karamoozian A**, Abedi Gheshlaghi L, Foroutan B. Seasonal impact of air particulate matter on morbidity: Interaction effect assessment in a time-stratified case-crossover design. *Hum Ecol Risk Assess An Int J*. 2021 Nov 26;27(9–10):2328–41.
- 8) **Karamoozian A**, Baneshi MR, Bahrampour A. Gastric cancer survival analysis: applying the bayesian mixture cure rate frailty models. *J Kerman Univ Med Sci*. 2022;29(1):95–105.
- 9) Mohammadi MA, Bamorovat M, Sharifi I, **Karamoozian A**, et al. Linguatula serrata in cattle in southeastern Iran: Epidemiological, histopathological and phylogenetic profile and its zoonotic importance. *Vet Parasitol Reg Stud Reports* 2020; 22: 100465.
- 10) Mostafavi M, Sharifi I, **Karamoozian A**, et al. The impact of diabetes on cutaneous leishmaniasis: a case–control field assessment. *Parasitol Res*. 2021;120(11):3865–74.
- 11) Cheshmyazdan M, Bamir M, **Karamoozian A**, et al. Comparing scientific production of Prioritized Health areas of Iran's comprehensive scientific map with outlook horizon 1404 countries: A scientometric study: brief report TT. *Tehran-Univ-Med-J* 2020; 78: 466–472.
- 12) Bamorovat M, Sharifi I, Aflatoonian MR, **Karamoozian A**, Tahmouresi A, Jafarzadeh A, et al. Prophylactic effect of cutaneous leishmaniasis against COVID-19: A case-control field assessment. *Int J Infect Dis*. 2021.
- 13) Aboubakri O, Ballester J, Shoraka HR, **Karamoozian A**, Golchini E. Ambient temperature and Covid-19 transmission: An evidence from a region of Iran based on weather station and satellite data. *Environ Res*. 2022;209:112887.
- 14) Zarei M, Naghibzadeh-Tahami A, Haghdoost AA, **Karamoozian A**. Predicting Probabilistic Causes of Colorectal and Gastric Cancers using Bayesian Networks. 2022.

- 15) Jamebozorgi MH, **Karamoozian A**, Bardsiri TI, Sheikhbardsiri H. Nurses Burnout, Resilience, and Its Association With Socio-Demographic Factors During COVID-19 Pandemic. *Front Psychiatry*. 2021;12.
- 16) Rajabi S, Zarei MR, **Karamoozian A**, Mohammadpour A, Azhdarpoor A. Sobol Sensitivity Analysis for Non-Carcinogenic Health Risk Assessment and Water Quality Index for Kohgiluyeh and Boyer-Ahmad Province, Western Iran. *Arab J Chem*. 2022;104342.
- 17) Yazdinejad T, **Karamoozian A**, Mousavi MA, Bansesh MRI, Borhaninejad VR, Iranpour A. Health Literacy and its Related Factors in Dialysis Patients: A Cross-sectional Study in Iran. *J Kerman Univ Med Sci*. 2022;29(5):484–9.
- 18) Hasheminejad N, Mahmoodi MR, Malek Mohammadi T, **Karamoozian A**. Meal patterns and the quality of breakfast and snacks in relation to adolescents' dental health in southeast of Iran. *Nutr Health*. 2022;02601060221130426.
- 19) **Karamoozian A**, Bahrampour A. Comparing The Basic Reproduction Number (R0) Estimation Methods of COVID-19, Using Simulation Data Based on Available Data from Iran, USA, UK, India, and Brazil. *J Res Health Sci*. 2022;22(3).
- 20) **Karamoozian A**, Bahrampour A. Comparison of the Effective Reproduction Number (Rt) Estimation Methods of COVID-19 Using Simulation Data Based on Available Data from Iran, USA, UK, India, and Brazil. *J Res Health Sci*. 2022;22(3).
- 21) Ilaghi M, Shafian S, Soltanizadeh A, **Karamoozian A**, Okhovati M, Aflatoonian S. Reconstructing feedback in graduate medical education: development of the REFLECT scale to measure feedback delivery in medical residency training. *BMC Med Educ*. 2023;23(1):344.
- 22) Bamorovat M, Sharifi I, Afshari SAK, **Karamoozian A**, Tahmouresi A, Heshmatkhah A, et al. Poor adherence is a major barrier to the proper treatment of cutaneous leishmaniasis: A case-control field assessment in Iran. *Int J Parasitol Drugs Drug Resist*. 2023;21:21–7.
- 23) Sharifi F, Mehrolhassani MH, Gohari MA, **Karamoozian A**, Jahani Y. Clinical Risk Factors of Need for Intensive Care Unit Admission of COVID-19 Patients; a Cross-sectional Study. *Arch Acad Emerg Med*. 2023;11(1).
- 24) Sharifi I, Khosravi A, Aflatoonian MR, Salarkia E, Bamorovat M, **Karamoozian A**, et al. Cutaneous leishmaniasis situation analysis in the Islamic Republic of Iran in preparation for an elimination plan. *Front Public Heal*. 2023;11:1091709.
- 25) Nasiri N, Shahrababaki PM, Sharifi A, Ghasemzadeh I, Khalili M, **Karamoozian A**, et al. Barriers and Problems in Implementing Health-Associated Infections Surveillance Systems in Iran: A Qualitative Study. *Med J Islam Repub Iran*. 2023;37.
- 26) Iranpour A, **Karamoozian A**, Golzadeh F, Aligol M. Investigating Health Literacy Level and

- 27) Nasiri N, Sharifi A, Ghasemzadeh I, Khalili M, **Karamoozian A**, Khalooei A, et al. Incidence, accuracy, and barriers of diagnosing healthcare-associated infections: a case study in southeast Iran. *BMC Infect Dis.* 2023;23(1):1–8.
- 28) Hasankhani MB, Jahani Y, Bazrafshan A, Yazdizadeh A, **Karamoozian A**. Factors Affecting Survival of Patients with Cervical Cancer. *Iranian Journal of Public Health.* 2023 Oct;52(10):2216.
- 29) Hajhosseini M, Sharifi I, Bamorovat M, **Karamoozian A**, Amanizadeh A, Agha Kuchak Afshari S. Monitoring of airborne fungi during the second wave of COVID-19 in selected wards of the referral university hospital in southeastern Iran. *Environmental Monitoring and Assessment.* 2023 Sep;195(9):1132.
- 30) Iranpour A, Kazemian E, **Karamoozian A**, Nakhaee N, Sharifi H, Fadakar MM. Prevalence of Substance Use During Pregnancy and the Related Factors: A Study from Southeast Iran. *Journal of Kerman University of Medical Sciences.* 2023;30(5):261-6.
- 31) Balooch Hasankhani M, Mirzaei H, **Karamoozian A**. Global trend analysis of diabetes mellitus incidence, mortality, and mortality-to-incidence ratio from 1990 to 2019. *Scientific Reports.* 2023 Dec 11;13(1):21908.
- 32) Bamorovat M, Sharifi I, Shafiei Bafti M, Agha Kuchak Afshari S, Aflatoonian MR, **Karamoozian A**, Jafarzadeh A, Amirzadeh R, Khosravi A, Babaei Z, Safa F. Cutaneous Leishmaniasis Hampers COVID-19: A Controlled Cross-Sectional Study in High-Burden Endemic Areas of Iran. *Journal of Epidemiology and Global Health.* 2024 Mar;14(1):142-53.
- 33) Bahrampour A, Baneshi MR, **Karamoozian A**, Seyedghasemi NS, Etminan A, Eghbalian M. Long-Term Survival of Patient with End-Stage Renal Disease Using Bayesian Mixture Cure Rate Frailty Models. *Iranian Journal of Public Health.* 2024 Sep 3;53(9):2113-20.
- 34) Bamorovat M, Sharifi I, Aflatoonian MR, Salarkia E, Afshari SA, Pourkhosravani M, **Karamoozian A**, Khosravi A, Aflatoonian B, Sharifi F, Divsalar H. A prospective longitudinal study on the elimination trend of rural cutaneous leishmaniasis in southeastern Iran: climate change, population displacement, and agricultural transition from 1991 to 2021. *Science of the Total Environment.* 2024 Feb 25;913:169684.
- 35) Norozipor S, Bamorovat M, Mosavi SA, Salarkia E, Hadizadeh S, Sharifi F, **Karamoozian A**, Ranjbar M, Afshari SA. Synergistic activity of crocin and crocin loaded in niosomes alone and in combination with fluconazole against *Candida albicans* isolates: In vitro and in silico study. *Journal of Medical Mycology.* 2024 Jun 1;34(2):101478.
- 36) Naghibzadeh-Tahami A, **Karamoozian A**, Iranpour A, Mirshekarpour H, Zahedi MJ,

Enhesari A, Haghdoost AA. Is opium use related to the increased risk of oral cavity cancers? A case-control study in Iran. *Cancer Epidemiology*. 2024 Aug 1;91:102602.

- 37) Khorrami Z, Pourkhosravani M, **Karamoozian A**, Jafari-Khounigh A, Akbari ME, Rezapour M, Khorrami R, Taghavi-Shahri SM, Amini H, Etemad K, Khanjani N. Ambient air pollutants and breast cancer stage in Tehran, Iran. *Scientific Reports*. 2024 Feb 16;14(1):3873.
- 38) Shafian S, Ilaghi M, Shahsavani Y, Okhovati M, Soltanizadeh A, Aflatoonian S, **Karamoozian A**. The feedback dilemma in medical education: insights from medical residents' perspectives. *BMC Medical Education*. 2024 Apr 19;24(1):424.