

Curriculum Vitae

(Last update: October 2026)

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:

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

Affiliation:

1. Department of Biostatistics and Epidemiology, Faculty of Public Health, Kerman University of Medical Sciences, Kerman, Iran
2. Leishmaniasis Research Center, Kerman University of Medical Sciences, Kerman, Iran

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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.

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*

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

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

Selected as the top teaching faculty member of the Faculty of Public Health in 2025

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 the Leishmaniasis Research Center (since 2022)

Head of Statistics Unit of Kerman University of Medical Sciences (since 2022)

Member of the Publications Council of Kerman University of Medical Sciences (since 2023)

Research Assistant in research deputy at the Faculty of Health, Kerman University of Medical Sciences (since 2023)

Member of the HSE Committee, Faculty of Public Health, Kerman University of Medical Sciences (since 2024)

Member of the Editorial Board of the Journal of Kerman University of Medical Sciences (since 2025)

Member of the Editorial Board of Health and Development Journal (since 2025)

Member of the Editorial Board of Strides in Development of Medical Education Journal (since 2024)

Statistical Consultant at the Clinical Research Development Unit, Yas Charity Association, Kerman (since 2024)

Work experiences

Teaching more than 250 theoretical and practical units in undergraduate, graduate courses and PhD in pharmacy of Kerman University of Medical Sciences since 2016

Supervisor and advisor in more than 40 theses

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, Bahrapour 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, Bahrapour 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, Bahrapour 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) 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.
- 15) 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.
- 16) 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.
- 17) 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.
- 18) **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).
- 19) **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).
- 20) 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.
- 21) 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.
- 22) 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).
- 23) 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.
 - 24) 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.
 - 25) Iranpour A, **Karamoozian A**, Golzadeh F, Aligol M. Investigating Health Literacy Level and Related Factors Among Adults in Qom. *Middle East J Rehabil Heal Stud*. 2023;10(3).
 - 26) 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.
 - 27) 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.
 - 28) 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.
 - 29) 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.
 - 30) 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.
 - 31) 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.
 - 32) 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;53(9):2113.

- 33) 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.
- 34) 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.
- 35) Naghibzadeh-Tahami A, **Karamoozian A**, Iranpour A, Mirshekarpour H, Zahedi MJ, Enhesari A, Haghdooost 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.
- 36) 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.
- 37) 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.
- 38) Darbandi M, Khorrami Z, **Karamoozian A**, Aboubakri O, Miryan M, Rezakhani L, Shadmani FK. A comparison of the burden of cancers between 1990 and 2019 in Iran: A national and subnational study. *PloS one*. 2025 Feb 25;20(2):e0309699.
- 39) Esmaeili A, **Karamoozian A**, Bahrapour A. Mortality Prediction in Patients With Breast Cancer by Artificial Neural Network Model and Elastic Net Regression. *Journal of Research in Health Sciences*. 2024 Dec 25;25(1):e00638.
- 40) Abdi F, **Karamoozian A**, Lotfilou M, Gholami F, Shaterian N, Niasar AA, Aghapour E, Jandaghian-Bidgoli M. Effect of play therapy and storytelling on the anxiety level of hospitalized children: a randomized controlled trial. *BMC Complementary Medicine and Therapies*. 2025 Jan 24;25(1):23.
- 41) Iranpour A, Poudineh FZ, Nakhaee N, **Karamoozian A**. Prevalence and associates of substance abuse among street children and adolescents in Iran. *Addiction & Health*. 2025 Jan 29.
- 42) Soltanizadeh A, Okhovati M, Shafian S, Ilaghi M, Behjati Y, **Karamoozian A**, Rezazadeh H, Bahaadinbeigy K. Residency training or migration: a multi-centric study exploring the willingness to migrate among medical residents in Iran. *BMC Medical Education*. 2025 Mar

- 43) Lashkarizadeh N, Mohammadi M, Mohyadin Z, Kalantari M, Kakooei S, **Karamoozian A**. Histological study of the effect of different hydration times of bone allograft and xenograft particles on the rate of bone formation in critical size defects in the rat calvarium. *International Journal of Implant Dentistry*. 2025 Mar 26;11(1):23.
- 44) Abdolahinia Z, Jaafari Z, **Karamoozian A**, Mehmandoost S, Ghalekhani N, Khezri M, Mousavian G, Shokoohi M, Mirzazadeh A, Haghdoost AA, Karamouzian M. Correlates of duration between initial drug use and first drug injection among people who inject drugs in Iran, 2020. *BMC Public Health*. 2025 Apr 1;25:1229.
- 45) Janati M, Nakhaee N, **Karamoozian A**, Alizadeh S, Yazdani M, Sharifi H, Iranpour A. Iranian university students' alcohol-related knowledge, attitude, and practice questionnaire (ISKAP alcohol Q): development and psychometric properties. *BMC psychology*. 2025 Jul 1;13(1):637.
- 46) Ehsani Nasab M, Ahmadi Tabatabaei SV, **Karamoozian A**, Borhani Nejad VR. Factors influencing perceived stress among informal caregivers of older adults in Kerman in 2023. *Health and Development Journal*. 2025 Jul 8;13(4):150-6.
- 47) Asgar M, Bamorovat M, Ayatollahi Mosavi SA, Sharifi F, Salarkia E, **Karamoozian A**, Hadizadeh S, Agha Kuchak Afshari S. Synergistic potential and apoptosis induction of Bunium persicum essential oil and its pure components, cuminaldehyde and γ -terpinene, in combination with fluconazole on *Candida albicans* isolates: in vitro and in silico evaluation. *Current Medical Mycology*. 2025 Aug 10;11.
- 48) Shojaee M, **Karamoozian A**, Rahnemaei FA, Mirzaei H, Mobaraki M, Abdi F. Association of Problematic Pornography Consumption and Motivation in Iranian Women's Sexual Compatibility in 2022-2023. *Journal of Nursing and Midwifery Sciences*. 2025 Sep 1;12(12).
- 49) Goodarzi E, Khazaei Z, **Karamoozian A**, AsadiLari F, Naghibzadeh-Tahami A. The inequality in the burden of road traffic injuries among children aged 0-14 years in Iran: estimates from the global burden of disease study 2019. *BMC Public Health*. 2025 Nov 14;25(1):3955.
- 50) Soltanizadeh A, Tirgar A, Zamanian Y, Ilaghi M, Aflatoonian S, **Karamoozian A**, Shabani M, Jafari E, Mahmoudabadi A, Moazed V. Elevated serum apelin levels in breast cancer patients: A potential biomarker with limited histopathological correlations. *Frontiers in Oncology*. 2025 Sep 22;15:1513693.
- 51) Poudineh FZ, Nakhaee N, **Karamoozian A**, Iranpour A. Prevalence and Associates of Substance Abuse Among Street Children and Adolescents in Iran. *Addiction & Health*. 2025 Aug 20;17:1643.

- 52) Abdolahinia Z, Eybpoosh S, Jangipour Afshar P, **Karamoozian A**, Azadmanesh K, Sharifi H. Hepatitis C distribution across diverse population groups in the Eastern Mediterranean Region: An umbrella review. *Plos one*. 2026 Apr 21;21(4):e0346782.
- 53) Rezaei M, **Karamoozian A**, Faraji M. The impact of exposure to fluoride in drinking water on intelligence in school age children in Iran. *Scientific Reports*. 2026 Jun 26.
- 54) 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. *Nutrition and Health*. 2026 Jan;32(1):315-21.
- 55) Khosravi S, Abbasi H, Okhovati M, **Karamoozian A**, Dehghani MR, Shafian S. Multiple mini-interviews for selecting Iranian medical science PhD candidates: a national longitudinal study of feasibility and acceptability. *Humanities and Social Sciences Communications*. 2026 Aug 21.
- 56) Dior H, Bamorovat M, Mosavi SA, Mahani ZH, **Karamoozian A**, Shamspour M, Afshari SA. Oral Candida infection and colonization in pediatric patients with cancer: risk factors, species distribution, and antifungal susceptibility. *Journal of Medical Mycology*. 2026 Jul 30:101642.
- 57) Hejazi A, Faghihi-Zarandi A, Parvari R, Rezaei Kahkha MR, **Karamoozian A**, Hormozi M. Copper-Metalated Metal Organic Framework for Pipette-Tip Micro Solid Phase Extraction of Creatinine in Human Urine. *Chemistry Africa*. 2026 Oct;9(8):360.
- 58) Naserabadi SR, Nejad NH, **Karamoozian A**, Mohammadian M. A user-centred ergonomic redesign of a university lectern significantly mitigates postural risk and enhances usability: evidence from REBA and SUS assessments. *International Journal of Human Factors and Ergonomics*. 2026;13(1):1-7.