



Mehdi Jabbari Nooghabi

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Data Scientist (Statistician), Associate Professor,

Research Assistant (Academic position)

I would like to find a way to solve the problems faster and easier as a member of team.

How to analyze data, model fitting, simulation, forecasting, best way to draw information from data, and all of them fascinate me.

WORK EXPERIENCE

Research Assistant, University of Copenhagen, Copenhagen, Denmark, 2023,

Associate Professor, Ferdowsi University of Mashhad, Iran, 2011-2023,

Statistical Consultant and Data Scientist, Iran Industrial Estate Company, 2003-2007,

Statistical Consultant and Senior Advisor, Surgical Oncology Research Center, Mashhad, Iran, 2010-2023,

Statistical and Actuarial Consultant, Insurance Research Center, Tehran, Iran, 2022-2023,

Leader of team to write and develop several applications by R and Python to Univariate and Multivariate Data Analyses, Model Fitting, Simulations, Reading data, Modelling and Forecasting COVID-19, Detecting Outliers, Box-Cox transformation,

Develop Robot to Trade in Cryptocurrencies by R and Python (<http://shiny.um.ac.ir/jabbarinm/>),

Setup and develop Shiny applications (<http://167.235.55.134:3838/jabbarinm/>),

Member of a team to write LRQMM R package (<https://github.com/jabbarinm>).

EDUCATION

Ph.D. Statistics, University of Mumbai, Mumbai, India, 2007-2012,

M.Sc. Statistics, Ferdowsi University of Mashhad, Mashhad, Iran, 2000-2003,

B.Sc. Statistics, University of Kerman, Kerman, Iran, 1996-2000.

Thesis

MSc.: Several New Methods for Multivariate Statistical Quality Control

PhD: Estimation of the Parameters of the Pareto Distribution in the Presence of Outliers.

Some of Research Workshops in Industries

Presenting several training workshops on the use of statistics and data science in industries in the food industry and biotechnology park of industrial estate of Iran. Teaching short courses of statistics and its application in management and industries and teaching statistical software for data analysis for the managers of SMEs. Teaching applied statistics courses and various statistical software for master Khorasan Industrial Management organization.

Some of the Courses Taught in the Universities

Applied Statistics, Biostatistics, Statistical Analysis by SAS software for MSc of Statistics and PGDASS diploma program. Statistical and Computational Applications for resource person at Refresher course for College and University Teachers. Simulation, Statistical Lab, Statistical Computations I&II&III, Modeling, Data Mining, Advanced Data Mining, Computer application in Sport, Regression I&II, Prediction and Control, Time Series I&II, Statistical Quality Control, Engineering Statistics, Industrial Statistics, Statistical Analysis, Multivariate

Home Page:

<https://www.math.ku.dk/english/staff/?pure=en/persons/774350>

LinkedIn: <https://www.linkedin.com/in/mehdi-jabbari-nooghabi-5b57bb28/>

Google Scholar:

https://scholar.google.com/citations?hl=en&user=3XMs0GcAAA&view_op=list_works&sortby=pubdate

Scopus:

<https://www.scopus.com/authid/detail.uri?authorid=36996870400>

Orcid: <https://orcid.org/0000-0002-5636-2209>

Apps: <http://shiny.um.ac.ir/jabbarinm/>

SKILLS

Personal: Analytical, Self-driven, Team player, Communicator, Responsible, Patient, Creative, Hardworking, Presentations,

Technical: Data Science, Statistical Computations, Biostatistics, Outliers and Robust, Simulations, Modeling, Data Mining, Actuary, Statistical Quality Control, Applied Mathematics, Statistical Programming, Cluster Analysis, Machine Learning, Econometrics, Time Series Analysis, Finance, R, Python, SAS, JMP, PASS, Gpower, MAPLE, MS OFFICE, LaTeX, etc.,

Language: Danish (beginning), German (beginning) English, Farsi, speaking and writing.

Hobbies: Communication, Eating Cake, Coffee, Playing Handball, Swimming.

VOLUNTEER EXPERIENCE

Computer lab Management in Faculty of Mathematical Sciences at FUM, Carton Mashhad Industrial Company, Amir Kabir Research Center, Mashhad Municipality Traffic Research Center.

HONOR AWARDS (Research, Some of)

- Designing and creating several applications for statistical and mathematical modeling, machine learning, and simulations.
- Building applications for simulating and numerical calculations of complex articles.
- Designing and building robots for modeling, predicting, and identifying smart money for buying and selling cryptocurrencies and stock exchange.
- Modeling and forecasting number of confirmed and death caused COVID-19 in IRAN: A comparison of time series forecasting methods.
- Estimate daily case fatality rate and cure rate of COVID-19 in IRAN and compare to other countries: A cluster analysis.
- Statistical quality control, Retrieve cases, and Sale cases in Carton Mashhad Industrial Company.
- Investigate the methods of reducing the economic and environmental costs of garbage and solid waste materials in Mashhad with the Mashhad Municipal Materials Recycling and Conversion Organization. Comprehension design to add and bury the additional material of hygienic in the other cities at Khorasan province.
- Research for Physical education management of Ferdowsi University of Mashhad in the field of research projects in sports affairs.

Discrete and Continues Analysis, Linear models and their application in Genetics, etc.

Some of Recent Papers in Peer-Review Journals and Conferences

- Kheirolah Okhli, Mehdi Jabbari Nooghabi, [On the three-component mixture of exponential distributions: A Bayesian framework to model data with multiple lower and upper outliers](#), Mathematics and Computers in Simulation 208 (2023) 480–500
- Hamideh Iranmanesh ,Mehdi Jabbari Nooghabi ,Abbas Parchami, [Robust yield test for a normal production process](#), Quality Engineering, Volume (35) No (3) Pages (1-15).
- Rahele Mollayeh ,Mehdi Jabbari Nooghabi, [Shrinkage Estimators of shape parameter of Contaminated Pareto Model with Insurance Application](#), Hacettepe Journal of Mathematics and Statistics, Volume (52) No (3), 2023, Pages (1-14).
- Hamideh Iranmanesh , Abbas Parchami , Mehdi Jabbari Nooghabi , [Testing capability index Cpk with its application in automobile engine manufacturing industry](#) , Quality Engineering , Volume (34) , 2022-7, Pages 1-8
- Ehsan Soltani , Habibollah Mahmoodzadeh , Azadeh Jabbari Nooghabi , Mehdi Jabbari Nooghabi , Khosrow Ravankhah Moghaddam , Ehsan Hassanzadeh Haddad , [Transhiatal versus Transthoracic Esophagectomy for Esophageal SCC: Outcomes and Complications](#) , Journal of Cardiothoracic Surgery , Volume (17) , 2022-6, Pages 150-156
- Nasrin Talkhi , SEYEDEH NARJES AKHAVAN FATEMI , Mehdi Jabbari Nooghabi , [Revealing Behavior Patterns of SARS-CoV-2 using Clustering Analysis and XGBoost Error Forecasting Models](#) , Iranian Journal of Microbiology , Volume (16) , 2022-5, Pages 221-232
- Mehdi Jabbari Nooghabi , Mehرداد Naderi, [Stress–strength reliability inference for the Pareto distribution with outliers](#) , Journal of Computational and Applied Mathematics , Volume (404) , 2022-4, Pages 113911-
- Abbas Abdollahi , Seyed Maryam Naghibi , Hamed Shariat Razavi , Alireza Tavassoli , Azadeh Jabbari Nooghabi , Mehdi Jabbari Nooghabi , [Safety of Laparoscopic Splenectomy for Patients with Idiopathic Thrombocytopenic Purpura and Very Low Platelet Count](#) , Caspian Journal of Internal Medicine , Volume (13) , 2022-2, Pages 1-9
- Mahtab Zangui , Abbas Abdollahi , Mehdi Jabbari Nooghabi , Ali Jangjoo , Reza Roshan Ravan , Yasaman Navari , Fateme Shahabi , [Laparoscopic Proctectomy in Locally Advance Rectal Cancer: Prolapse Delayed Anastomosis Compared to Immediate Anastomosis](#) , Indian Journal of Surgery , 2022-1
- Negin Nasri, Javad Ashrafi, Mehdi Jabbari Nooghabi, [The Impact of Intellectual Capital on Corporate Economic Performance in Iran in the Face of Sanctions](#), International Journal of Learning and Intellectual Capital, Volume (18), 2021-7, Pages 1-31
- Nasrin Talkhi , SEYEDEH NARJES AKHAVAN FATEMI , zahra ataei , Mehdi Jabbari Nooghabi , [Modeling and forecasting number of confirmed and death caused COVID-19 in IRAN: A comparison of time series forecasting methods](#) , Journal of Biomedical Signal Processing and Control , Volume (66) , 2021-4, Pages 102494-
- Vahideh Banazadeh , Ali Jangjoo , Golnaz Ranjbar , Mehdi Jabbari Nooghabi , Daryoush Hamidi Alamdari , Majid Ghayour Mobarhan , Reyhaneh Faridnia , Mohsen Nematy , [A Clinical Report on the Impact of Gastric Bypass Surgery on Obesity-Related Complaints and Comorbidities Six Months after the Surgery](#) , Reviews in Clinical Medicine , Volume (8) , 2021-4, Pages 11-18
- Sara Saeidi , Bitā Dādpour , Lida Jarahi , Anahita A Ghamsari , Mehdi Jabbari Nooghabi , [Clinical Predictive Values in Botulism: A 10-year Survey](#) , Indian Journal of Critical Care Medicine , Volume (25) , 2021-4, Pages 411-415
- Siamak Zarei Ghanavati , Mehdi Jabbari Nooghabi , Ghodsieh Zamani , [Comparison of the effect of Tea tree oil shampoo with regular-lid shampoo in meibomian gland dysfunction treatment](#) , American Journal of Ophthalmology , Volume (229) , 2021-4, Pages 45-51
- Kheirolah Okhli , Mehdi Jabbari Nooghabi , [On the contaminated exponential distribution: A theoretical Bayesian approach for modeling positive-valued insurance claim data with outliers](#) , Applied Mathematics and Computation , Volume (392) , 2021-3, Pages 125712-125723
- Arash Peivandi Yazdi , Mehdi Asadi , Mehryar Taghavi Gilani , Alireza Bameshki , Mostafa Mehrabi Bahar , Mehdi Jabbari Nooghabi , Mahsa Rajaei , [Effects of Acetazolamide, Paracetamol, and Placebo on Postoperative Pain in Laparoscopic Cholecystectomy: A Randomized, Double-blind, Parallel-controlled Clinical Trial](#) , Electronic Physician , Volume (13) , 2021-3, Pages 7795-7802
- Mehdi Jabbari Nooghabi , [Comparing estimation of the parameters of distribution of the root density of plants in the presence of outliers](#) , Environmetrics , Volume (32) , 2021-2
- Mehdi Jabbari Nooghabi , [Process capability indices in normal distribution with the presence of outliers](#) , Journal of Applied Statistics , Volume (47) , 2020-7, Pages 2443-2478
- Tannaz Jamialahmadi , Ali Jangjoo , Reza Rezvani , Ladan Goshayeshi , Aida Tasbandi , Mehdi Jabbari Nooghabi , Farnood Rajabzadeh , Kamran Ghaffarzadegan , Zeinab Javid Mishamandani , Mohsen Nematy , [Hepatic Function and Fibrosis Assessment Via 2D-Shear Wave Elastography and Related Biochemical Markers Pre- and Post-Gastric Bypass Surgery](#) , Obesity Surgery , Volume (30) , 2020-3, Pages 2251-2258
- Research plan to investigate and study the position of industrial estate in Khorasan province in attracting industries and the level of motivation created in the direction of industrial investment.
- Research projects of youth and teenagers for the National Youth Organization in the field of leisure.
- To analyze and explain the philosophical mindset of students, coaches, supervisors and managers participating in the 6th Sports Olympiad of Iran.
- To investigate and study productivity in the industrial units of the province and how to use the created capacities and existing facilities.
- Productivity and work of technical and professional education in general technical and vocational administration.
- Investigate the methods of reducing the economic and environmental costs of garbage and solid waste materials in Mashhad with the Mashhad municipal materials recycling and conversion organization.
- Investigate the educational needs of employers and female job seekers in Khorasan province to the general technical and vocational department of Khorasan province.
- A comprehensive plan to investigate the causes of road accidents in Khorasan province with the cooperation of the country's transportation and terminals organization and the police force.
- To investigate the level of satisfaction of those who refer to car service centers across the country.
- Evaluation of the amount of consumption of raw materials and production of industrial estates and to provide the necessary solutions for the construction of suitable industrial units in different parts of the province.
- Investigate and evaluate the water consumption of industrial estate in Industrial estates and provide the necessary solutions to optimize water consumption.
- Investigate and evaluate industrial investors from various dimensions to create industrial estate.
- Evaluation Total Quality Management (TQM) in industrial estates of Khorasan province.
- Examine the licenses of establishments and examine the problems of the industries in Khorasan region.
- Predict the need of industrial land needed for the industrial estate around the city.
- Investigate the activity status of operational, inactive, restarted industrial estate located in Khorasan industrial estates and investigating their problems from different dimensions.
- Propose a model for allocating the budget of the general department of physical education of the Ministry of Science, Research and Technology to state universities across the country.
- Evaluate allocating of the budget for the industries estates in Khorasan province.
- Analysis of statistical yearbooks data of Mashhad municipality.
- Investigate the level of awareness and usage of the managers, employees and customers of Maskan Bank of Khorasan province of electronic banking services and compare it with other selected banks.
- Forecast the number of tourists in Mashhad in a 10-year horizon.
- Statistical survey of source-destination forms for collecting traffic and traffic information in Khorasan province.
- Designing and implementing the statistical data dictionary of Mashhad municipality with the approach of developing the registered statistical system of urban management.