Maryam Sharafi

Curriculum vitae

Personal Information

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✉ Department of Statistics, Faculty of Science, Razi University, Kermanshah, Iran

Education

2011 **Ph.D. in Statistics**
Department of Statistics, Shahid Beheshti University, Tehran, Iran.
Dissertation Title: Testing Various Stochastic Ordering Using Type II Censoring Data.

2006 **M.Sc. in Statistics**
Department of Statistics, Tarbiat Modares University, Tehran, Iran.
Thesis Title: Spatio Temporal Kriging with External Drift.

2004 **B.Sc. in Statistics**
Department of Statistics, Razi University, Kermanshah, Iran

Research Interests

○ Reliability Theory
○ Censored data analysis
○ Nonparametric Inference
○ Risk Analysis
○ Machine learning and data mining

Work Experience

2011-Present **Assistant Professor**
Department of Statistics, Razi University, Kermanshah, Iran.

June - December 2010 **Visiting PhD Student**
Department of Mathematics and Statistics, McMaster University, Hamilton, Ontario, Canada.

2006-2009 **Teaching Assistantship**
Department of Statistics, Shahid Beheshti University, Tehran, Iran.

2008-2009 **Research Assistantship**
Department of Statistics, Shahid Beheshti University, Tehran, Iran.

Publications

Journals

- M Mohammadzadeh, **M Sharafi**. (2007). Spatio-temporal Kriging with External Drift, Journal of Statistical Research of Iran (JSRI) 4 (1), 15-28.
- **Sharafi, M**., Balakrishnan, N. and Khaledi, B. E. (2013). Distribution- Free Comparison of Hazard Rates of Two Distributions Under Type-II Censoring. Communications in Statistics-Theory and Methods 42, 1889-1898.
- **Sharafi, M**., Balakrishnan, N. and Khaledi, B. E. (2013). Distribution-Free Comparison of Hazard Rates of Two Distributions under Progressive Type-II Censoring, Journal of Statistical Computation and Simulation 83, 1527-1542.
- **Sharafi, M.**, Khaledi, B. E. and Hami, N. (2014). On Multivariate Likelihood Ratio Ordering among Generalized Order Statistics and their Spacings. Journal of Iranian Statistical Society 13, 1-29.
- M Izadi, **M Sharafi**, BE Khaledi. (2018). New nonparametric classes of distributions in terms of mean time to failure in age replacement, Journal of Applied Probability 55 (4), 1238-1248.
- Azami S., **Sharafi M**. and Moradian F. (2018). Parametric and Non-parametric Estimation of Environmental Kuznets Curve in Iran. Journal of Economic Research and Policies (qjerp), 26 (87) ,221-247. (In Persian)
- M Ghahramani, **M Sharafi**, R Hashemi, (2020). Analysis of the progressively Type-II right censored data with dependent random removals, Journal of Statistical Computation and Simulation 90 (6), 1001-1021.
- Ghahramani M, **Sharafi M**, Hashemi R., (2022). Statistical Inference of Two-Parameter Weibull Distribution under Progressive Type-II Censoring with Random Removals. JSS, 16 (1), 209-238.
- **M Sharafi** (2022) Inference of the two-parameter Lindley distribution based on progressive type II censored data with random removals, Communications in Statistics-Simulation and Computation 51 (4), 1967-1981.
- Ghahramani M, **Sharafi M**, Hashemi R. (2022) Statistical Inference of Two-Parameter Weibull Distribution under Progressive Type-II Censoring with Random Removals. JSS, 16 (1), 209-238.
- **Maryam Sharafi**, Reza Hashemi and Masumeh Ghahramani. (2024). Analysis of the Three-parameter Weibull Distributed Lifetime Data based on Progressive Type-II Right Censoring: a New Approach to Determine the Random Removals, JIRSS, 23(1), 1-31.
- **Maryam Sharafi** and Zahra Asadi. (2025). Bayesian and Classical Inference Under Progressive Type-II Censored Samples of the Two-parameter Pareto Distribution with Binomial Random Removals Scheme, J Indian Soc Probab Stat. https://doi.org/10.1007/s41096-025-00229-9.

Conferences

- **Sharafi, M**.(2011), On Testing Hazard Rate, The 2th Workshop on Reliability Theory its Applications, Department of Statistics, University of Isfahan, Isfahan, Iran.
- **Sharafi, M**, Balakrishnan, N and Khaledi, B. E. (2013). On Some Nonparametric Tests for Comparison the Hazard Rates of Two Distributions based of Progressive Type-II Censoring, The 3th Workshop on Reliability Theory its Applications, Ferdowsi University of Mashhad, Iran.
- **Sharafi, M**. (2015). Distribution-Free Comparison of Mean Residual Life Functions of Two Populations, The First Seminar on Reliability Theory and its Applications, Department of Statistics, University of Isfahan, Isfahan, Iran.
- **Sharafi, M**. (2017). Some results on comparing the mean residual life functions of two groups, The 3rd Seminar on Reliability Theory and its Applications.

- Moradian S.A. and **Sharafi, M**. (2017). Estimation for Log-gamma distribution under adaptive progressive type-II censoring, The 3rd Seminar on Reliability Theory and its Applications.
- **Sharafi, M**. (2017). Tail variance risk measure under univariate type III generalized Logistic distribution, Conference on Modern Methods in Insurance Pricing and Industrial Statistics.
- **Sharafi, M**. (2018). Empirical Study on Optimal Reinsurance Design, 14th Iranian Statistical Conference.
- Ghahramani M and **Sharafi, M** (2019), A review on Assumption and Hypothesis concepts, The First Seminar on Evidential Inference.
- **Sharafi, M**. (2020). Optimal Progressive Type-II Censoring Random Schemes Based on Expected Total Test Time, The 6th Seminar on Reliability Theory and its Applications.
- **Sharafi, M**. (2021). A nonparametric comparison of k populations based on hazard rates order under type-II censoring. The 7th Seminar on Reliability Theory and its Applications.
- **Sharafi, M**. (2022). Inference in the statistical distributions based on progressively Type-II Censored data with dependent and independent, The 8th Seminar on Reliability Theory and its Applications.
- Bashkhash K. and **Sharafi, M**, A new method for clustering longitudinal data by using B-Splines. The 4th National Conference on Data Mining in Earth Sciences.
- **Sharafi, M**. (2024). A Bayesian approach to analyze progressive censoring data with random removals from the Pareto distribution, 17th Iranian statistics Conference.

Teaching Experiences

2014 to date   **Graduate Courses**
- Statistical Inference I
- Statistical Inference II
- Special Discussion (Advanced Nonparametric Methods),
- Advanced Simulation,
- Advanced Statistical Inference,

2006 to date   **Undergraduate Courses** *(Selected Items)*
- Probability I and II
- Mathematical Statistics I and II
- Introduction to Reliability
- Numerical methods and Simulation
- Nonparametric Methods
- Statistical Quality Control
- Engineering Statistics.

Service

I have reviewed several articles for:
- Journal of Statistical Computation and Simulation
- Austrian Journal of Statistics
- Reliability Engineering & System Safety
- Communications in Statistics-Theory and Methods
- Communications in Statistics Simulation and Computation
- Journal of Statistical Research of Iran.
- Journal of Iranian Statistical Society
- Journal of Statistical Sciences

Short Courses

- Financial Mathematics, by Professor EL Karoui N. (Ecole Polytechnique, France), Shahid Beheshti University, Tehran, Iran.
- Data Mining, by Professor Chenouri Sh. (University of Waterloo, Canada), Shahid Beheshti University, Tehran, Iran.
- Analysis Statistical Data , by Professor Dodge Yadolah (University of Neuchâtel, 2000 Neuchâtel Switzerland,) ,Tehran, Iran.
- Order Statistics, by Professor Olkin (Stanford University), Tehran, Iran.
- Analysis of Life time data in Reliability, by Professor Balakrishnan, Mcmaster University, Hamilton,Canada, (as invited student)
- Official Statistics, by Iranian Statistical Society
- Research method and questionnaires design, by Iranian Statistical Society

Computer Skills

Excellent working knowledge in

Programming	**R, S-PLUS, SPSS, Maple, MATLAB, Mathematica, Matlab**
Languages	**C++, Python**
Tools	**Latex, Microsoft Office, Adobe PhotoShop, Adobe Acrobat**