

CURRICULUM VITAE

MUHYIDDIN IZADI

PERSONAL INFORMATION

Fax +98(831) 427 45 61
Email m.izadi@razi.ac.ir
Address Department of Statistics, Faculty of Sciences, Razi University,
Bagh-e Abrisham, Kermanshah, Iran

CURRENT POSITION

2012-2023 Assistant Professor, Department of Statistics, Razi University
2023- Associate Professor, Department of Statistics, Razi University

EDUCATION & CERTIFICATION

2012 PhD

Department of Statistics, Shahid Beheshti University, Tehran, Iran
Thesis title: **Skewness Orderings Among Random Variables**
Supervisor: Dr. Baha-Eldin Khaledi

2007 Master of Statistics

Department of Statistics, Shahid Beheshti University, Tehran, Iran
Thesis title: **Stochastic Comparisons among Progressive Type II censored Order Statistics and Their Concomitants**
Supervisor: Dr. Baha-Eldin Khaledi

2005 Bachelor of Statistics

Department of Statistics, Razi University, Kermanshah, Iran

RESEARCH INTERESTS

- Reliability Theory
- Nonparametric Statistical Inference
- Stochastic Orders,
- Machine Learning

HONORS GRANTS

- 2005** Ranked 1th among Razi University Alumni.
- 2005** Ranked 14th in "National M.Sc. Entrance Exam in Statistics".
- 2007** Ranked 2th in "PhD Entrance Exam in Statistics, Shahid Beheshti University".
- 2008** Scholarship for finishing PhD program at Shahid Beheshti University from Iran's Ministry of Science, Research and Technology (IMSRT).
- 2011** Fund for visiting Massey University, New Zealand, by IMSRT.

TEACHING

- **Undergraduate** Non-parametric methods, Mathematical Statistics 1 and 2, Statistical methods, Probability 1 and 2, Basic Probability and Statistics, Linear Regression, Sampling Methods, Methods of Continuous Multivariate, Statistics and Probability for Engineering, Biostatistics, Statistics for Economics, Linear Algebra
- **Postgraduate** Advanced statistical inference, Statistical inference 1 and 2

ARTICLES

- JOURNALS:
 1. Fahad, B.K., **Izadi, M.**, and Kneehr, A.L. (2025). A Novel Kumaraswamy-Fréchet Poisson Distribution. *Contemporary Mathematics*, **6**(5), 5955-5967.
<https://ojs.wiserpub.com/index.php/CM/article/view/7988>
 2. Shakoori, A., **Izadi, M.**, and Khaledi, B.E. (2024). Copula based Bayesian data analysis of loss reserving. *Communications in Statistics-Simulation and Computation*, **53**(2), 727-743.
<https://doi.org/10.1080/03610918.2022.2032155>
 3. **Izadi, M.** (2023). Forecasting Inflation Rate in Kermanshah Province with LSTM Neural Network. *Scientific Progress and Development of Kermanshah*, **3**(1), 74-92. (In Persian)
 4. Shakoori, A., **Izadi, M.**, and Khaledi, B.E. (2023). Modeling outstanding claims in dependent run-off triangles considering calendar dependence. *Iranian Journal of Insurance Research*, **12**(4), 283-298. (In Persian)
<https://doi.org/10.22056/ijir.2023.04.03>
 5. Roshani, A., **Izadi, M.**, and Khaledi, B.E. (2023). Bayesian Poisson common factor model with overdispersion for mortality forecasting in multiple populations. *Communications in Statistics-Simulation and Computation*, 1-28.
<https://doi.org/10.1080/03610918.2023.2196381>
 6. Roshani, A., **Izadi, M.**, and Khaledi, B.E. (2023). Transformer self-attention network for forecasting mortality rates. *Journal of The Iranian Statistical Society*, **21**, 91-113.
http://jirss.sinaweb.net/article_704621.html
 7. Manesh, S.F., **Izadi, M.**, and Khaledi, B.E. (2023). On stochastic ordering among extreme shock models. *Probability in the Engineering and Informational Sciences*, **37**(4) 961-972.
<https://doi.org/10.1017/S0269964822000328>

8. Amiri, M., Dhaene, J., **Izadi, M.**, and Khaledi, B.E. (2022). Lower and upper bounds for survival functions of the smallest and largest claim amounts in layer coverages. *Communications in Statistics-Theory and Methods*, **51**(18), 6385-6395.
<https://doi.org/10.1080/03610926.2020.1861295>
9. Fathi Manesh, S., **Izadi, M.**, and Khaledi, B.E. (2021). A Study on Preference Orderings of Mathematical expectation, Expected Utility and Distorted Expectation. *Andishe_ye Amari*, **25**(2), 41-53. (In Persian)
<http://andisheyamari.irstat.ir/article-1-838-en.html>
10. Fathi Manesh, S., **Izadi, M.**, and Khaledi, B.E. (2021). Some New Results on Policy Limit Allocations. *Journal of The Iranian Statistical Society*, **20**(1), 183-196.
<http://dx.doi.org/10.52547/jirss.20.1.183>
11. Karami, T., **Izadi, M.**, and Niaparast, M. (2021). Comparison of logistic regression with some machine learning methods in classifying data. *Andishe_ye Amari*, **26**(1), 47-59. (In Persian)
<http://andisheyamari.irstat.ir/article-1-853-en.html>
12. **Izadi, M.**, and Manesh, S.F. (2021). Testing exponentiality against a trend change in mean time to failure in age replacement. *Communications in Statistics-Theory and Methods*, **50**(14), 3358-3370.
<https://doi.org/10.1080/03610926.2019.1702693>
13. Amiri, M., **Izadi, M.**, and Khaledi, B.E. (2020). Worst Allocations of Policy Layers for Independent and Identically Distributed Exponential Risks. *Journal of Statistical Sciences*, **14**(1), 23-39. (In Persian)
<http://dx.doi.org/10.29252/jss.14.1.23>
14. **Izadi, M.**, and Jalilian, A. (2020). Small-Sample Comparison of the Gamma Kernel and the Orthogonal Series Methods of Density Estimation. *Mathematical Researches*, **6**(3), 333-346. (In Persian)
<http://dx.doi.org/10.52547/mmr.6.3.333>
15. Amiri, M., **Izadi, M.**, and Khaledi, B.E. (2019). Optimal allocation of policy layers for exponential risks. *Journal of The Iranian Statistical Society*, **18**(1), 1-16.
<https://doi.org/10.29252/jirss.18.1.1>
16. Rahmani, R., **Izadi, M.** (2019). On Properties of Random-Weighted-k-out-of-n Systems. *Journal of Statistical Sciences*, **12**(2), 413-428. (In Persian)
<http://dx.doi.org/10.29252/jss.12.2.413>
17. **Izadi, M.**, Sharafi, M., and Khaledi, B. E. (2018). New nonparametric classes of distributions in terms of mean time to failure in age replacement. *Journal of Applied Probability*, **55**(4), 1238-1248.
<https://doi.org/10.1017/jpr.2018.82>
18. Rahmani, R.A., **Izadi, M.**, and Khaledi, B.E. (2016). Stochastic comparisons of total capacity of weighted-k-out-of-n systems. *Statistics & Probability Letters*, **117**, 216-220.
<https://doi.org/10.1016/j.spl.2016.06.005>
19. Rahmani, R.A., **Izadi, M.**, and Khaledi, B.E. (2016). Importance of components in k-out-of-n system with components having random weights. *Journal of Computational and Applied Mathematics*, **296**, 1-9.
<https://doi.org/10.1016/j.cam.2015.09.009>

20. Mohammadi, F., **Izadi, M.** and Lai, C.D. (2016), On testing whether burn-in is required under the long-run average cost. *Statistics & Probability Letters*, **110**, 217-224.
<https://doi.org/10.1016/j.spl.2015.10.009>
 21. **Izadi, M.**, Khaledi, B.E., and Lai, C.D. (2016). On testing more IFRA ordering-II. *Communications in Statistics-Theory and Methods*, **45**(15), 4556-4568.
<https://doi.org/10.1080/03610926.2014.922987>
 22. **Izadi, M.**, Lai, C.D. and Khaledi, B. (2013), Testing exponentiality versus NWBUE alternative, *Journal of the Indian Statistical Association*, **52**, 105-112
 23. **Izadi, M.** and Khaledi, B. (2012), On testing more IFRA ordering, *Journal of Statistical Planning and Inference*, **142**, 840-847
<https://doi.org/10.1016/j.jspi.2011.10.003>
 24. Lai, C.D. and **Izadi, M.** (2012), Generalized Logistic Frailty Model, *Statistics & Probability Letters*, **82**, 1969-1977
<https://doi.org/10.1016/j.spl.2012.06.012>
 25. **Izadi, M.** and Khaledi, B. (2007), Progressive Type II Censored Order Statistics and Their Concomitants: Some Stochastic Comparisons Results. *Journal of The Iranian Statistical Society* **6**(2), 111-124.
<http://jirss.irstat.ir/article-1-224-en.html>
- CONFERENCE:
 1. Rahmani, R., **Izadi, M.**, and Khaledi, B. (2015). On Mean Residual Life Ordering Among Weighted-k-out-of-n Systems. *First seminar on Reliability Theory and its Applications*, 123-126.
 2. Roshani, A., **Izadi, M.**, and Khaledi, B.E. (2022). Modeling and Forecasting Mortality Rate with Cohort Effect and Overdispersion. *16th Iranian Statistics Conference*, 417-423.
 3. Shakoori, A., **Izadi, M.**, and Khaledi, B.E. (2022) Modelling of Multivariate Loss Reserving with Contaminated Generalized Beta type-II Margins using Copulas. *16th Iranian Statistics Conference*, 443-449.

PRESENTATION

1. Izadi, M. Testing for convex transform ordering, *Annual Conference of the New Zealand Statistical Association, The University of Auckland, New Zealand*, August 28-31, 2011.
2. Izadi, M., Khaledi, B. and Sharafi, M., On Testing Inequality Ordering, *The first International Conference on Econometrics, Methods and Applications, Islamic Azad University of Sanandaj, Iran, 2012*

SELECTED SKILLS

- COMPUTER SKILLS:

Programming Language	R, Python, S-PLUS, MATLAB
Statistical Software	SPSS, MINITAB, S-PLUS, R
Applied Software	LaTeX, M.S.Office