Curriculum Vitae

Me'raj Abdi

Born: April/24/1984, Iran.

Assistant Professor

School of Mathematics and computing,

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Education

1. 2007:BSc Statistics, University of Mazandaran, Babolsar, Iran.

2. 2010: MSc Mathematical Statistics, University of Mazandaran, Babolsar, Iran. Supervisor: Prof. Akbar Asgharzadeh, Advisor: Prof. Bahram Sadeghpour Gildeh.

   Title of the thesis: Inference for Weibull Distribution Based on Complete and Censored Samples.

3. 2021: Shahid Bahonar University of Kerman, Iran. Supervisors: Prof. Mohsen Madadi and Prof. Ahad Jamalizadeh.

   Title of the thesis: On distributions generated by convolution of multivariate normal vectors with arbitrary random variables; Properties and Applications.

Main Research themes:

- Order Statistics
- Censored Data Analysis
- Record Data Analysis
- Point and Interval Estimation
- Distribution Theory
- Multivariate Mixture Models
- Multivariate Skewness
- Risk Measurement

Teaching:

- Calculus
- Probability and Statistics 1, 2
- Probability and Statistics for Engineers
- Stochastic Process
- Applied Probability and Statistics
- Statistics and its Application in Management
- Statistics and Quantitative Methods in Urbanism
- Mathematical Statistics 1 & 2
- Basic Concepts of Probability
- Probability 1 & 2
- Statistical Methods
- R and S-PLUS Programming
- Mathematics Lab.
- Statistics Lab. (SPSS, R, Minitab, …)
- Nonparametric statistics
- Continuous Multivariate Statistics
- Discrete Multivariate Statistics

Work Experience

- Head of Department of Statistics (2013-2015)
- Manager of Student Affairs (2015-2018)
- Manager of Educational Affairs and Postgraduate Studies (2022-Now)
- Representative of Iranian Statistical Society (2013-2019)
- Representative of Iranian Fuzzy systems Society (2013-Now)
- Representative of Iranian Operation Research Society (2013-Now)

Publications

Journal Papers:

1. Asgharzadeh, A., and **Abdi, M.** (2008) Point and Interval Estimation for the Burr Type III Distribution. J. Statist. Res. Iran, Vol. 5, No. 2, 221–233.

2. Asgharzadeh, A., and **Abdi, M.** (2011). Exact Confidence Intervals and Joint Confidence Regions for the Parameters of the Gompertz Distribution Based on Records. Pak. J. Statist., Vol. 27(1), 55-64.

3. Asgharzadeh, A., and **Abdi, M.** (2011). Joint Confidence Regions for the Parameters of the Weibull Distribution Based on Records. Prob. Stat. Forum, Vol. 4, 12–24.

4. Asgharzadeh, A., and **Abdi, M.** (2011). Confidence intervals and joint confidence regions for the two-parameter exponential distribution based on records. Communications of the Korean Statistical Society, Vol. 18, No. 1, 103–110.

5. Asgharzadeh, A., **Abdi, M.,** and Rezaei, R. (2011). Comparisons of Methods of Estimation for the Half-Logistic Distribution. Selçuk J. Appl. Math. Special Issue, pp. 93-108.

6. Asgharzadeh, A., and **Abdi, M.,** and Kus, C. (2011). Interval Estimation for the Two-Parameter Pareto Distribution Based on Record Values, Selçuk J. Appl. Math., Special Issue. pp. 149-161.

7. Asgharzadeh, A., and **Abdi, M.** (2012). Exact Confidence Interval and Region for the Parameters of the Burr Type XII Distribution Based on Records. International Journal of Statistics and Economics, Vol. 8, No. S12, 98-104.

8. Asgharzadeh, A., and **Abdi, M.** (2009). Inference for the Location and Scale Parameters of Rayleigh Distribution Based on Type II censored data. J, Andishe-ye-Amari, 13, 26(2), pp, 31-40. (in Persian)

9. **Abdi, M.** (2014). Confidence interval for the two-parameter exponentiated Gumbel distribution based on record values. International Journal of Applied Operational Research, Vol. 4, No. 1, pp. 61-68.

10. Babazadeh, M., Rezaei S., and **Abdi**, **M.** (2012). A New Generalized Exponential-Logaritmic Lifetime Distribution. Journal of Statistical Sciences, Vol. 6, No. 1, pp. 1-20. (in Persian)

11. Asgharzadeh, A., **Abdi, M.,** and Wu, Shuo-Jye (2014). Interval Estimation for the Two-Parameter Bathtub-Shaped Lifetime Distribution Based on Records, Haettepe Journal of Mathematics and Statistics, 44(2), 399-416.

12. Asgharzadeh, A., **Abdi, M.,** and Valiollahi, R. (2013). Analysis of Record Data from the Scaled Logistic Distribution, Journal of Statistical Research of Iran, 10, 41–62.

13. Asgharzadeh, A., **Abdi, M.,** and Nadarajah, S. (2016). Interval estimation for Gumbel Distribution using climate records. Bull. Malays. Math. Sci. Soc., 39(1), 257–270.

14. Asgharzadeh, A., Valiollahi, R., and **Abdi, M.** (2016). Point and interval estimation for the logistic distribution based on record data, SORT, 40 (1), 89-112.

15. **Abdi, M.,** Asgharzadeh, A. (2013). A Revision on Numerical Methods for Obtaining Point and Interval Estimations by S-PLUS, Andishe-ye Amari, 36, 47-60. (In Persian)

16. Asgharzadeh, A., Yahyaee, H., and **Abdi, M.** (2015). Joint Confidence Sets. Andishe-ye Amari, 39(1), 11-19. (in Persian)

17. Asgharzadeh, A., Fern*á*ndez, Arturo J. and **Abdi, M.** (2017). Confidence sets for two-parameter Rayleigh distributions under progressive censoring. Applied Mathematical Modelling, 47, 656-667.

18. **Abdi, M.,** Asgharzadeh, A., (2017). Rayleigh confidence regions based on records with applications to environmental data. Journal of Statistical Research of Iran,14(2), 171-188.

19. Alizadeh, M., Kadilar, G.O., Altun, E., **Abdi, M.,** Hamedani, G.G. (2017). The Odd Log-Logistic Marshall-Olkin Lindley Model for Lifetime Data. Journal of Statistical Theory and Application, 16(3), 382 – 400.

20. Ahmadi, M.V, Ahmadi, J., and **Abdi**, **M.** (2019). Evaluating the lifetime performance index of products based on generalized order statistics from two-parameter exponential model. International Journal of system Assurance Engineering and Management, 10(2), 251–275.

21. **Abdi**, **M.,** Afshari, M., Karami Kabir, H., Mozafari, M., and Alizadeh, M. (2019). The New Odd Log-Logistic Generalised Half-Normal Distribution: Mathematical Properties and Simulations. Pak. j. stat. oper. res., 15(2), 277-302.

22. **Abdi**, **M.,** Asgharzadeh, A., Bakouch, H.S., Alipour, Z. (2019). A New Compound Gamma and Lindley Distribution with Application to Failure Data. Austrian Journal of Statistics, 48 (3), 54-75.

23. **Abdi**, **M.,** Madadi, M., and Jamalizadeh, A. (2020). The Convolution of Multivariate Normal and Standard Exponential Distributions: Theory and Application. Journal of Statistical Sciences, 14(2), 449-469. (in Persian)

24. **Abdi**, **M.,** Madadi, M., Balakrishnan, N., and Jamalizadeh, A. (2021). Family of mean-mixtures of multivariate normal distributions: properties, inference and assessment of multivariate skewness. Journal of Multivariate Analysis, 181, 104679.

25. Tanış, C., Saraçoğlu, B., Asgharzadeh, A., **Abdi**, **M.** (2023). Estimation of $Pr(X<Y)$ for exponential power records. Hacettepe Journal of Mathematics and Statistics, 52(2), 499 – 511.

26. **Abdi**, **M.,** and Madadi, M. (2023). A different attitude in analyzing 3-Way contingency tables using conditional independence. Journal of Statistical Sciences, 17(1), 103-118.

Conference and Seminar Papers:

1. Asgharzadeh, A., and **Abdi, M.** (2009). Estimation of Lifetime Parameters for Proportional Reversed Hazard Rate Models Based on Left-Censored Data. Proceeding of 7th Seminar on probability and stochastic processes, Isfahan University of Technology, 30-35.

2. Asgharzadeh, A., and **Abdi, M.** (2009). Joint Confidence Region for the Parameters of Pareto Distribution Based on Records. Proceeding of 40th Annual of Iranian Mathematics conference. Sharif University of Technology, Tehran, Iran

3. Asgharzadeh, A., and **Abdi, M.** (2010). Confidence Interval and Region for the Two-Parameter Exponential Distribution Based on Records. Accepted for presentation in the 10th Iranian Statistical Conference, University of Tabriz, Tabriz, Iran.

4. Asgharzadeh, A., and **Abdi, M.** (2010). Simultaneous Confidence Intervals for the Parameters of extreme value distribution Based on Records. Accepted for presentation in the 41th Iranian International Conference on Mathematics, University of Urmia, Urmia, Iran.

5. Asgharzadeh, A., and **Abdi, M.** (2011). Different Methods of Estimations for the Type II Generalized Logistic Distribution. Accepted for presentation in the International Conference on Applied Analysis and Algebra. Yildiz Technical University, Istanbul- Turkey.

6. Asgharzadeh, A., and **Abdi, M.,** and Yahyaee, H. (2014). Joint Confidence Set for the Parameters of the Rayleigh Distribution Under Progressive Censoring. Accepted for presentation in the 12th Iranian Statistical Conference, Razi University, Kermanshah, Iran.

7. **Abdi, M.,** and Babazadeh, M. (2014). A New Lifetime Distribution. Accepted for presentation in the 12th Iranian Statistical Conference, Razi University, Kermanshah, Iran.

8. **Abdi, M.,** and Asgharzadeh, A. (2014). Estimation for the Burr Type III Distribution Based on Record Values. Accepted for presentation in the 45th Iranian International Conference on Mathematics, Semnan University, Semnan, Iran.

9. Asgharzadeh, A., and **Abdi, M.** (2015). Inference on Reliability Characteristics Based on Half-Logistic Records Accepted for presentation in the first seminar on reliability theory and its applications, university of Isfahan, Isfahan, Iran.

10. **Abdi, M.,** and Asgharzadeh, A. (2015). Estimation of stress-strength reliability based on generalized Rayleigh Records. Accepted for presentation in the10^{th} seminar on probability and stochastic processes, Yazd university, Yazd, Iran.

11. **Abdi, M.,** and Asgharzadeh, A. (2015). Interval estimation for a general class of exponential distributions under progressive censoring, Accepted for presentation in the 46th Annual Iranian Mathematics Conference, Yazd university, Yazd, Iran.

12. **Abdi, M.,** and Asgharzadeh, A. (2016). A General Class of Exponentiated Distributions, Accepted for presentation in the 13th Iranian Statistical Conference, Shahid Bahonar University of Kerman, Kerman, Iran.

13. **Abdi, M.,** and Asgharzadeh, A. (2017). Stress-Strength Reliability for a General Class of Inverse Exponentiated Distributions Under Progressive Censoring. Accepted for presentation in the 11th seminar on probability and stochastic processes, Imam Khomini university, Ghazvin, Iran.

14. **Abdi**, **M.,** Madadi, M., and Jamalizadeh, A. (2021). Multivariate tail conditional expectation for mean-mixtures family of normal distribution. Accepted for

presentation in the 51th Annual Iranian Mathematics Conference, University of Kashan, Kashan, Iran.

Special Skills and Talents

- Using the Computer and Internet to research
- Using the Statistical and Mathematical software (R, SPLUS, SPSS, MINITAB, SAS, MAPLE, MATHEMATICA, MATLAB, PYTHON)
- Microsoft office (Word, Excel, Power Point)
- Writing software (Latex)