

Kiomars Motarjem

□ PERSONAL INFORMATION

<i>Date of Birth</i>	May 22, 1981
<i>Address</i>	Department of Statistics, Tarbiat Modares University
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Brief Review:

Strong support professional with a Doctor of Philosophy (Ph.D.) focused on Spatial Statistics from Tarbiat Modares University, Has experience in education, Skilled in survival analysis, Reliability and spatial survival analysis, Data Analysis, and Statistical Modeling.

□ ACADEMIC QUALIFICATIONS

- **BSc** in *Statistics*, 1999-2003 *Allameh Tabataba'i University*, Tehran, Iran.
 - **MSc** in *Statistics*, 2003-2005 *Tarbiat Modares University*, Tehran, Iran
Thesis: Conditional Simulation for Spatial Data Analysis
(Supervised by Professor M.Mohammadzadeh)
 - **PhD** in *Statistics*, 2012-2016 *Tarbiat Modares University*, Tehran, Iran
Thesis: Spatial Analysis of Survival Models with Non-Gaussian Random Effects
(Supervised by Professor M.Mohammadzadeh)
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□ APPOINTMENTS HELD:

- Faculty member, Department of statistics Tarbiat Modares University, Tehran, Iran
(2020-Now Full time)

□ Reviewer for journal and conferences:

- Journal of Statistical Sciences, Iranian Statistical Society.
- Iranian Journal of Official Statistics Studies, Iranian Statistical Center.
- Iranian Journal of Andishe-ye Amari, Iranian Statistical Society.
- Journal of Sciences, Islamic Republic of Iran.
- Iranian journal of Insurance Research, Insurance Research Institute
- Journal of Engineering and Quality Management
- 14th Iranian Statistics Conference (2018)
- 2nd Seminar on Spatial Statistics and Its Application (2017)
- 3rd Seminar on Spatial Statistics and Its Application (2019)

PROFESSIONAL ACTIVITIES

- Design and implementation of the statistical system
- Determination of organizational statistical indicators and performance statistics analysis
- Voice of Customer Survey (V.O.C)
- Statistical Quality Control
- Customer Satisfaction
- Statistical learning

INSTITUTIONAL MEMBER

- Iranian Statistical Society (ISS).
- Iranian Mathematical Society (IMS).

TAUGHT COURSES

1. BSc

- Introduction to Statistics
- Statistical method Sampling Theory
- Statistical Experimental Design
- Mathematical Statistics
- Non Parametric Statistics
- Regression

2. MSc

- Statistical Inference
- Engineering Probability and Statistics
- Spatial Statistics

PUBLICATIONS

• Journals

- [1] **Motarjem, K.**, Mohammadzadeh, M., and Abyar, A. (2015), Cox and Frailty Models for Analysis of Spatial Survival Data, Journal of Advanced Mathematical Modeling, 4(2), 101-116.
- [2] **Motarjem, K.**, Mohammadzadeh, M., and Abyar, A. (2016), Spatial Modeling of Censored Survival Data, Journal of Mosaheb Mathematical Researches, 1(2), 65-74.
- [3] Abyar, A., Mohammadzadeh, M. and **Motarjem, K.** (2016), Cox and Frailty Models for Analysis of Esophageal Cancer Data, Andishe-ye-Amari, 21(1), 57-64.
- [4] **Motarjem, K.**, Mohammadzadeh, M., and Abyar, A.(2018), Bayesian Analysis of Spatial Survival Model with Non-Gaussian Random Effect, Journal of Mathematical Sciences, Volume 237, Issue 5, pp 692–701.
- [5] **Motarjem, K.**, Mohammadzadeh, M., and Abyar, A. (2020), Geostatistical Survival Model with Gaussian Random Effect, Statistical Papers, Statistical Papers volume 61, pages85–107
- [6] Zanjiran.F, M., **Motarjem, K** (2020), Modeling Factors Affecting Unemployment Duration Using Survival Analysis, Iranian Journal of Official Statistics Studies 30(2), 568-549

- [7] **Motarjem, K.**, Niakan, L. (2021), Measuring and evaluating the satisfaction of life insurance customers, Journal of insurance research, DOI: 10.22056/JIR.2021.264568.2838
- [8] **Motarjem, K.**, (2021), Introduce a Survival Model with Spatial Skew Gaussian Random Effects and its Application in Covid-19 Data Analysis, Journal of Statistical Sciences

• Conferences

- [1] **Motarjem, K.**, (2004), Multi-phase Regression, The 7th Iranian Statistical Conference, Tehran, Iran.
- [2] **Motarjem, K.**, and Mohammadzadeh, M. (2005), Analysis of Spatio-Temporal Data with Conditional Simulation, The 5th Iranian Seminar on Probability and Stochastic Processes, Birjand, Iran.
- [3] **Motarjem, K.**, and Mohammadzadeh, M. (2014), The Spatial Effect of Unknown Hazard Factors on Estimation of the Cox Model and its Comparison with Shared Frailty Model, 12th Iranian Statistical Conference, Kermanshah, Iran.
- [4] Abyar, A., Mohammadzadeh, M., **Motarjem, K.** and Roshandel, Gh. (2014), Survival Cox and Proportional Hazards Models for Analysis of Esophageal Cancer Data, the 12th Iranian Statistical Conference, Kermanshah, Iran.
- [5] Mohammadzadeh, M., **Motarjem, K.** and Abyar, A. (2015), Survival Modeling of Spatially Correlated Data, Proceedings of the First Seminar on Reliability Theory and its Applications, May 27-28, 2015, Isfahan, Iran.
- [6] **Motarjem, K.**, Mohammadzadeh, M., and Abyar, A. (2015), A Simulation Method for Generating Spatial Survival Data, Proceedings of the Eighth International Workshop on Simulation, September 21-25, 2015, Vienna, Austria
- [7] **Motarjem, K.**, Mohammadzadeh, M., and Abyar, A. (2016), Bayesian Analysis of Spatial Survival Model with Skew-Gaussian Random Effect, Proceedings of the Eighth International Workshop on Simulation, September 5-8 July, 2016, Lisboan-Portugal.
- [8] Abyar, A. , Mohammadzadeh, M., and **Motarjem, K.** (2016), Survival Analysis and Modeling of the Expected Publication Time of Scientific Papers, Proceedings of the 13th Iranian Statistical Conference, Kerman, Iran.
- [9] **Motarjem, K.**, Mohammadzadeh, M., and Abyar, A. (2016), Bayesian Analysis of Survival Models with Spatial Random Effects, Proceedings of the 13th Iranian Statistical Conference, Kerman, Iran.
- [10] **Motarjem, K.**, Mohammadzadeh, M. and Abyar, A. (2016), Analyzing High Dimensional Survival Data Using Random Forests, Third International Conference on Analysis and Applied Mathematics, Institute of Mathematics and Mathematical Modelling, 7-10 September 2016, Almaty, Kazakhstan.
- [11] **Motarjem, K.**, Mohammadzadeh, M. and Abyar, A. (2017), The Effect of Spatial Intensity Correlation on Estimation of the Cox Model, XXXIV. International Seminar on Stability Problems for Stochastic Models, 25-29 August, Debrecen, Hungary.
- [12] **Motarjem, K.**, Mohammadzadeh, M., Abyar, A. (2017), Spatial Survival Model with Closed Skew Gaussian Random Effects, 2nd Seminar on Spatial Statistics and Its Applications, Shahrood, Iran
- [13] Abyar, A., Mohammadzadeh, M., **Motarjem, K.** (2017), Clustering of High Dimensional Spatial Data, 2nd Seminar on Spatial Statistics and Its Applications, Shahrood, Iran

- [14] **Motarjem, K.**, Mohammadzadeh, M., (2019), On Spatial Skew-Gaussian Process and Its Applications in Survival Analysis, 3rd Seminar on Spatial Statistics and Its Applications, Shahrood, Iran
- [15] Zanjiran.F, M., **Motarjem, K** (2019), The effect of geographical pattern on customer satisfaction, 3rd Seminar on Spatial Statistics and Its Applications, Zanjan, Iran
- [16] Fazlali. M., **Motarjem, K** (2019), The effect of hotel location on customer satisfaction, 3rd Seminar on Spatial Statistics and Its Applications, Zanjan, Iran
- [17] Zanjiran.F, M., **Motarjem, K** (2020), Cox survival models for analyzing economic data, Proceedings of the 15th Iranian Statistical Conference, Yazd, Iran.
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RESEARCH INTERESTS:

- Spatial Statistics
- Spatial Survival analysis

SKILLS

- **Programming languages and soft wares**
 - R, Python, MATLAB
 - Open Bugs, SPSS, MINITAB
 - **Spoken languages**
 - English
 - Persian - Mother tongue
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