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## **Educations**

2002, Ph.D. (Biostatistics) Tarbiat Modares University, Tehran, Iran

1996, M.Sc. (Applied Statistics) Tarbiat Modares University, Tehran, Iran

1991, B.Sc. (Statistics) Ferdowsi University of Mashhad, Iran

## **Title of Ph.D. Thesis:**

Nonstationary Spatial Data Analysis and its Application in Geographical  
Epidemiology of Diseases

Supervisor: Prof. Mohsen Mohammadzadeh

## **Title of Msc Dissertation:**

Nonparametric Regression Curve Estimation and its Applications

Supervisor: Dr. Hamid Reza Navvabpur

## Academical Position:

Associate Professor, University of Birjand, 2002– Present.

## Research Interests: Spatial Data Analysis, Linear Models, Statistical Computations, Statistical Simulation

## Teaching Experiences

- **Graduate Courses** : Linear Models, Advanced Discussions in Applied Statistics, Multivariate Analysis, Statistical Methods in physical education.
- **Undergraduate Courses**: Statistical Methods, Simulation, Discrete Multivariate Analysis, Continuous Multivariate Analysis, Statistical computations, Demography, Probability and Statistics, Time Series Analysis, regression, Smpling Methods, Demography, Official Statistics.

## Societies Membership: Iranian Statistical Society (ISS)

## Journal Papers:

1. Arefi, M., Mohtashami Borzadaran, G.R. and Waghei, Y. (2008) A note on interval estimation for the mean of inverse Gaussian Distribution, *Statistics and operations Research Transactions*, 49-56.
2. Akbari, M.G., Rezaei RoknAbad, A.H. and Waghi, Y. (2009) Statistical Inference about the variance of fuzzy random variable, *Sankhya: The Indian J. of Stat.*, 206-221.
3. Nakhaei, F., Sam, A., Mosavi, M.R. and Vaghei, Y. (2012) Recovery and Grade Accurate Prediction of Pilot Plant Flotation Column Concentrate: Neural Network and Statistical Techniques, *INTERNATIONAL JOURNAL OF MINERAL PROCESSING*, 140-154.
4. Arefi, M., Mohtashami Borzadaran, G.R. and Waghei, Y. (2009) Interval estimation for the means of Binomial, negative Binomial, and Takacs distributions, *Italian Journal of Applied Statistics*.
5. Nakhaei S., Nasiri A., Waghei, and Morshedi, J. (2015), Comparison of Avena Sativa, Vinegar, and Hydroxyzine for Uremic Pruritus of Hemodialysis Patients: a Crossover Randomized Clinical Trial, *Iranian Journal of Kidney Diseases*, 19(4), 316-322.

6. Waghei, Y., Niktinat, S. and Mohtashami Borzadaran, G.R. (2015), Statistical map analysis of the mean and the gini coefficient of healthcare expenses in Iran, *Journal of research and Health*, 2015(1), 28-34.
7. Arefi, M., Mohtashami Borzadaran, G.R. and Waghei, Y. (2016), Interval Estimations for the Mean of the Generalized Poisson and Generalized Negative Binomial Distributions, *Communications in Statistics - Simulation and Computation*, 45, 1838-1864.
8. Hosseini Shojaei, S.R., Waghei, Y., and Mohammadzadeh, M. (2017), Parameter Estimation in Spatial Generalized Linear Mixed Models with Skew Gaussian Random Effects using Laplace Approximation, *Journal of statistical Research of Iran*, 14(2), 157-169.
9. Hosseini Shojaei, S.R., Waghei, Y., and Mohammadzadeh, M. (2017), A simulation comparison on spatial Poisson mixed models, *Communications in Statistics - Simulation and Computation*, 46(8), 6208-6220.
10. . Hosseini Shojaei, S.R., Waghei, Y., and Mohammadzadeh, M. (2018), Geostatistical analysis of disease data: a case study of tuberculosis incidence in Iran, *Journal of Applied Statistics*, 45(8), 1476-1483.
11. Mojiri, A., Waghei, Y., Nili Sani, H.R., and Mohtashami Borzadaran, G.R. (2018), Comparison of predictions by kriging and spatial autoregressive models, *Communications in Statistics - Simulation and Computation*, 47(6), 1785-1795.
12. . Mojiri, A., Waghei, Y., Nili Sani, H.R., and Mohtashami Borzadaran, G.R. (2018), The stationary regions for the parameter space of unilateral second-order spatial AR model, *Random Operators and Stochastic Equations (ROSE)*, 26(3), 185-191.
13. Ashtari Nezhad, E., Waghei, Y., Mohtashami Borzadaran, G.R., Nili Sani, H.R. and Alizadeh Noughabi, H. (2019), The modified permutation entropy-based independence test of time series, 48(10), 2877-2897.
14. Waghei, Y., Miri, M.R. and Ghasemipour, M. (2010), A survey about effective factors on the marital satisfaction in employees of two Birjand universities, *Journal of Birjand University of Medical Sciences*, 16(4), 43-50 (In Persian).
15. . Mojiri, A., Mohtashami Borzadaran, G.R. and Waghei, Y. (2008), Methods for Parameter Estimation of the Lorenz Functional Forms and Compare Them Based on Household Expenses Data, *Journal of Statistical Research of Iran*, 5(1), 57-74 (In Persian).
16. Sadeghiyan, A., Waghei, Y. and Mohammadzadeh, M. (2011), Spatial-temporal prediction of groundwater level in Birjand region using kriging method, *Journal of water and wastewater*, 24(1), 94-100 (in Persian).

17. Akbari, F., Amirabadizadeh, H., Poor Reza, A. [Waghei](#), Y. and Dastjerdi, R.(2006), Survey on socio-psychological stresses among nurses working in Birjand teaching hospitals in 2004, Journal of Birjand University of Medical Sciences, 12 (3,4), 66-71 (in Persian).
18. Arefi, M., Mohtashami Borzadaran, G.R. and [Waghei](#), Y.(2009), Interval estimation of the means of poisson and abel (generalized poisson) distributions, Shahid Chamran University Journal of Sciences, N.21, 26-38 (in Persian).
19. [Waghei](#), Y., Niktinat, S. and Mohtashami Borzadaran, G.R.(2011), Comparisinal study of inequalities based on health expenses of households in Iran provinces, Journal of North Khorasan University of Medical Sciences, V.3,141-150 (In Persian).
20. Fallah MohsenKhani, Z. and [Waghei](#), Y.(2005), Provincial population estimate and forecasts of the country by statistical and demographic methods, Population, N53 & 54, 1-20 (In Persian).
21. Mojiri,A., Mohtashami Borzadaran, G.R. and [Waghei](#), Y.(2008), Estimation of lorenz curve and gini coefficient by parametric method, Iranian Journal of Official Statistics Studies, 19(1), 1-14, (In Persian).
22. Behdani,Z., Mohtashami Borzadaran, G.R. and [Waghei](#), Y. (2010), Characterizations for the Lorentz ordering in the familiy of income distributions, Iranian Journal of Official Statistics Studies, 21(2), 151-167, (In Persian).
23. Agahi, M., [Waghei](#), Y. and rezaei, M.(2018), Parameters Estimation in the Regular Two-Stage Linear Models, Journal of Statistical Sciences, 12(1), 1-19, (In Persian).
24. Behdani,Z., Mohtashami Borzadaran, G.R., [Waghei](#), Y. and Sadeghpoor Gildeh, B.(2015), Comparative study of income distribution of south khorasan and the country during 1383 until 1394, Iranian Journal of Official Statistics Studies, 26(2), 161-181, (In Persian).
25. Mojiri,A., [Waghei](#), Y., Nili Sani, H.R., and Mohtashami Borzadaran, G.R.(2018), Spatial Prediction By Using Unilateral Autoregressive Models In Two-Dimensional Space, Journal of Statistical Sciences, 12(1), 189-208, (In Persian).
26. Ashtari Nezhad, E., [Waghei](#), Y., Mohtashami Borzadaran, G.R.Nili Sani, H.R. and Alizadeh Noughabi, H.(2019), IndependenceTestofTimeseriesBasedonPower-divergence, Journal of Statistical Sciences, 13(1), 39-56, (In Persian).
27. Hosseini, A., Alijani, B. and [Waghei](#), Y.(2019), Probability of SDS Days Prediction in Iran's Eastern Region Using Spatio-Temporal Indicator Kriging method, Journal of Natural Environmental Hazards, 8(20), 197-216.