

Curriculum Vitae

Name: **Mahsa**, Surname: **Rafiee Alhossaini**

Date & Place of Birth: 27/03/1987-Isfahan-Iran

E-mail Address: mhs_rafiee@yahoo.com

Academic degrees

Ph.D.: Biostatistics, Tarbiat Modares University, Tehran, Iran, 2015 – 2021, Cumulative GPA: 18.36 (out of 20). Thesis title: *“A multivariate location-scale model for clustered ordinal data and its application in medical data analysis”*.

MSc.: Biostatistics, Isfahan University of Medical Sciences, Isfahan, Iran, 2010-2013, Cumulative GPA: 17.94 (out of 20). Thesis title: *"Assessing changes in awareness level about cardiovascular diseases risk factors and its related determinants among Isfahan and suburb's inhabitants, using latent transition analysis: 2004-2007"*.

BSc.: Statistics, Isfahan University, Isfahan, Iran, 2005-2009. Cumulative GPA: 15.47 (out of 20). Final project title: *"Investigating the effect of different nitrogen levels on agronomic characteristics of sunflower"*.

Diploma: Mathematics. Cumulative GPA: 18 (out of 20), 2003-2004.

Honors and Awards

1. **Top student** during Ph.D. education.
2. **Scholarship award** by the Ministry of Science, Research and Technology of the Islamic Republic of Iran to carry out part of ongoing Ph.D. research study as a visiting research at the University of Miskolc, Hungary (2018).
3. **Second top student** during M.Sc. education.

Publications

Book

- 1- “Expert Choice Software Guide”, Ajripour, I. & Rafiee Alhossaini, M., IRAN:Author, 2016. (In Persian)

Journal Publications

- 1- “Transition in public knowledge of risk factors of cardiovascular disease in an Iranian general population: A latent transition analysis (LTA) on a longitudinal large community-based educational prevention program “, **Alhossaini, M. R.**, Hassanzadeh, A., Feizi, A., & Sarrafzadegan, N. (2016). *ARYA atherosclerosis*, 12(4), 185.
- 2- “Assessment of longitudinal and cross-sectional effects of age on adult obesity in an Iranian population: results of a large population-based cohort study”, **Rafiee Alhossaini, M.**, Kazemnejad, A., Zayeri, F., & Sadeghi, M. (2021). *Iranian Red Crescent Medical Journal*, 23(6). Retrieved from <https://ircmj.org/index.php/IRCMJ/article/view/736>.
- 3- “Photocount statistics of ultra-weak photon emission from germinating mung bean”, Rafieiolhosseini, N., Poplová, M., Sasanpour, P., Rafii-Tabar, H., **Alhossaini, M. R.**, & Cifra, M. (2016). *Journal of Photochemistry and Photobiology B: Biology*, 162, 50-55.
- 4- “Study of the efficacy of therapeutic interventions in growth normalization of children with congenital hypothyroidism detected by neonatal screening “, Feizi, A., Hashemipour, M., Hovsepian, S., Amirkhani, Z., Kelishadi, R., **Rafiee Alhossaini, M.**, & Amini, M. (2011). *Iranian Journal of Endocrinology and Metabolism*, 13(6), 681-689.
- 5- “An application of latent transition analysis in defining socioeconomic and obesity status in adults living in three counties in the central region of Iran”, **Alhossaini, M. R.**, Kazemnejad, A., Sadeghi, M., & Sarrafzadegan, N. (2022). *Int J Clin Exp Med*, 15(1), 32-36.

Conference Papers

- 1- “Transition in public knowledge of risk factors of CVD in an Iranian general population: An Application of Latent Transition Analysis (LTA) for evaluating a large community based educational prevention program”, **Rafiee Alhossaini, M.**, Feizi, A. Hassanzadeh, A. Sarrafzadegan, N., and Ajripour, I., *12th Iranian Statistical Conference*, 25th-26th October, 2014, Kermanshah, Iran.
- 2- “Photocount statistics of ultra-weak photon emission from germinating mung bean”, Rafieiolhosseini, N., Poplová, M., Sasanpour, P., Rafii-Tabar, H., **Alhossaini, M. R.**, & Cifra, M., *1st International Workshop on Ultra-weak photon Emission (UPE) by Biological Systems*, 7th -9th February, 2016, Tehran, Iran.
- 3- “AN APPLICATION OF LATENT CLASS ANALYSIS IN DEFINING AN INDEX FOR SOCIOECONOMIC STATUS”, **Rafiee Alhossaini Mahsa**, Kazemnejad Anoshirvan, Szilagyi Roland, Sadeghi Masoumeh, *Tavaszi Szél -Spring Wind Conference 2019*, 3th – 5th May 2019, Debrecen, Hungary. published in conference volume, ISBN 978-615-5586-61-3, available online: http://dosz.hu/dokumentumok/tsz2019_konferencia.
- 4- “AN APPLICATION OF LATENT TRANSITION ANALYSIS IN DEFINING SOCIOECONOMIC AND OBESITY STATUS IN ADULTS LIVING IN TWO CITIES IN CENTRAL REGION OF IRAN”, **Rafiee Alhossaini Mahsa**, Kazemnejad Anoshirvan, Sadeghi

Masoumeh, Szilagyi Roland, *Miskolci Egyetem Gazdaságtudományi Kar XI. Nemzetközi Konferencia 2019 (International scientific conference) titled "Mérleg és Kihívások"*, 17th -18th October 2019, Lillafüred, Hungary.

- 5- "An application of latent Transition analysis in defining an index for socioeconomic status and assessing its changes over time", **Rafiee Alhossaini Mahsa**, Kazemnejad Anoshirvan, Sadeghi Masoumeh, Szilagyi Roland, *International scientific conference titled "The Challenges of Analyzing Social and Economic Processes in the 21st Century"*, 7th-9th November 2019, Szeged, Hungary.
- 6- "Using Yager Method to ordering and selecting suppliers with certain data", Ajripour, I., Ghazinezhad, P. and **Rafiee Alhossaini, M.**, *11th International Industrial Engineering Conference*, 7th -8th Jan, 2015. (In Persian)
- 7- "Using ELECTRE 1 Technique for supplier selection in Fiber Intermediate Production Company", Ajripour, I. and **Rafiee Alhossaini, M.**, *Second National Conference on Industrial Engineering & Sustainable Management (IESM'14)*, 15th -16th Oct, 2014. (In Persian)
- 8- "An application of Fuzzy TOPSIS method to select appropriate raw materials supplier: A case study in a fiber intermediate production company", Ajripour, I., Davodi, M., and **Rafiee Alhossaini, M.**, *7th International Iranian Operation Research Society Conferences*, 14th -15th May, 2014. (In Persian)
- 9- "An application of analytic hierarchy process (AHP) for selecting the best option to purchase pump", Ajripour, I. and **Rafiee Alhossaini, M.**, *7th International Iranian Operation Research Society Conference*, 14th -15th May, 2014. (In Persian)
- 10- "Emergency department simulation to optimization, reduce waiting times and increase patient throughput, using Simulate 8 software", Ajripour, I. and **Rafiee Alhossaini, M.**, *2nd National Conference on Industrial Engineering and Systems*, 25th -26th Feb, 2014. (In Persian).

Programming & Software skills

R programming, **SAS** programming, **Win Bugs** and **JAGS** programming, **SPSS** software, **STATA** software, **Python** programming, **MATLAB** programming, **C++** programming.

Job Experiences

- Researcher, Isfahan Cardiovascular Research Institute (ICRI) (November 2021 till now)
- Teaching "Logistic Regression" (Spring 2019 and Fall 2020) – course for MBA international Ph.D. and Master students, University of Miskolc, Miskolc, Hungary.
- Teaching "Statistics and its application in management" (Spring and Fall 2014) –course for Management and Accounting BSc. students, Hasht-Behesht University, Isfahan, Iran
- Teaching "Biostatistics and probabilities" (Fall 2014) –course for medical engineering BSc. students, Islamic Azad University of Najaf-Abad, Najaf-Abad, Iran
- Teaching "Statistics and its application in Accounting" (Spring 2015) –course for Accounting BSc. students, Sepahan Institute of Higher Education, Isfahan, Iran
- Teaching "Sampling methods" (Fall 2012) –workshop on research methods for professional health BSc. students, School of Public Health, Isfahan university of Medical Sciences, Isfahan, Iran.

Language skills

Persian (Native), English (Advanced), German (Beginner), Hungarian (Beginner)

Fields of Interest

Statistics, Biostatistics, Longitudinal Data Analysis, Generalized Linear Models, Bayesian Methods, Clinical Trials, Survival Data Analysis, Design and Analysis of Experiment, Meta-analysis, Small Area Estimation (SAE) methods, Structural Equation Models (SEM).

Symposiums & Workshops

- 1- “End-note” training workshop, 19 December 2011.
- 2- “Advanced Search Skills” training workshop, 1 September 2012.
- 3- “Bioinformatics analysis using R” training workshop, 23 December 2015.
- 4- “Biological network analysis” training workshop, 23 December 2015.
- 5- “Modern variable selection techniques in high dimensional regression problems” training workshop, 21-23 July 2015.
- 6- “Medical Writing” training workshop, 11 August 2016.
- 7- “Nonparametric Bayes Inferences” training workshop, 28 August 2016.
- 8- “Machin learning and Data mining using Python” training workshop, 17 May 2017.
- 9- “Sample size” training workshop, 16 December 2017.
- 10- “Python programming” training workshop, 2 June 2017.
- 11- “Bayesian analysis for longitudinal data with count responses” training workshop.

References

Prof. Anoshirvan Kazemnejad

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