"In the name of Allah"

Marziyeh Doostfatemeh

Department of Biostatistics, Assistant professor

Shiraz University of Medical sciences, Shiraz, Iran

Email: doustma@sums.ac.ir

Education

March 2016: Awarded Doctor of Philosophy in Biostatistics, Shiraz University of Medical Sciences. (Graduated as the First Rank)

Dissertation: "Determination of power and sample size in clinical studies with two groups, in self assessment questionnaires with Item Response Theory (IRT) Models"

Supervisor: Professor Seyyed Mohammad Taghi Ayatollahi (Biostatistics)

Advisor: Dr. Peyman Jafari (Biostatistics).

February 2010: Master of Biostatistics, Shiraz University of Medical Sciences. (Graduated as the First Rank)

Thesis: "Flexible parametric proportional-hazards and proportional-odds models for censored survival data"

Supervisor: Professor Najaf Zare (Biostatistics)

June 2007: Bachelor of Science degree with major in statistics, The University of Shiraz

Thesis: A P-value on confidence interval
Supervisor: Dr. Mina Towhidi (Statistician)

Honors and Awards

Distinguished Student at Shiraz university of Medical sciences
(2014 - PhD Student)

Distinguished Student at Shiraz university of Medical sciences
(2011- MS Student)

Distinguished Student at Eighth Statistic Student Competitions, Iran University of Mazandaran (2nd Place: 2007 - BS Student)

Teaching Experience

Student activities (2010-2016)

- Applied Statistical methods, Mathematics courses.

Faculty member of Department of Biostatistics (Sep 2017 up to now)

- Introductory and advanced Biostatistics, Linear Models, Experimental Design

Publication

1- Zare N, **Doostfatemeh M**, Rezaianzadeh A. Modeling of breast cancer prognostic factors using a parametric log-logistic model in Fars province, Southern Iran. Asian Pacific Journal of Cancer Prevention. 2012 ,13(4), 1533-37.

2- **Doostfatemeh M**, Ayatollahi SM, Jafari P. Testing parent dyad interchangeability in the parent proxy-report of PedsQL 4.0: a differential item functioning analysis. Quality of Life Research. 2015; 24: 1939-47. **Ranking=1 (Q1). Impact factor: 2.39**

3- **Doostfatemeh M**, Ayatollahi SM, Jafari P. Power and sample size calculations in clinical trials with patient-reported outcomes (PROs) under equal and unequal group sizes based on graded response model (GRM), Value In Health, 2016,19(5),639-647. **Ranking= 1 (Q1). Impact factor: 5.01**

4- Haem E, **Doostfatemeh M*(*corresponding*)**, Firouzabadi N, Ghazanfari N, Karlsson MO. A longitudinal item response model for Aberrant Behavior Checklist

(ABC) data from children with autism. Journal of Pharmacokinetics and Pharmacodynamics. 2020 Apr 13:1-3. **Impact factor: 2.81**

5- Pourahmad S, Basirat A, Rahimi A, **Doostfatemeh M*(*corresponding*)**. Does Determination of Initial Cluster Centroids Improve the Performance of-Means Clustering Algorithm? Comparison of Three Hybrid Methods by Genetic Algorithm, Minimum Spanning Tree, and Hierarchical Clustering in an Applied Study. Computational and Mathematical Methods in Medicine. 2020 Aug 1;2020.

6- **Doostfatemeh M**, Ayatollahi SM, Jafari P, Assessing the effect of child's gender on their father-mother perception of the PedsQL™ 4.0 questionnaire: An iterative hybrid ordinal logistic regression/item response theory approach with Monte Carlo Simulation. Health and quality of life outcome. 2020. **Ranking= 1 (Q1). Impact factor: 2.31**

7- K Mehrabani-Zeinabad, **M Doostfatemeh**, SMT Ayatollahi. An efficient and effective model to handle missing data in classification. BioMed Research International. 2020**. Impact factor: 2.56**

8- **M Doostfatemeh**, E Haem, M Sarbaraninan, M Ajdari Tafti . Multidimensional item Response theory to assess the psychometric properties of persian version of dutch eating behavior questionnaire (DEBQ) in university students, Current Psychology .2022. **Impact factor: 2.39**

9- F Padashian, P Yadollahi, **M Doostfatemeh**, Z Moshfeghy. Examining exclusive breastfeeding in Iranian mothers using the five-factor model of personality traits. Journal of Taibah University Medical Sciences 17 (1), 51-56. 2022

10- E Haem, **Doostfatemeh M*(*corresponding*)**. Multidimensional item response theory to assess psychometric properties of GHQ-12 in parents of school children, Journal of Biostatistics and Epidemiology 8 (1).2022

11- F Dadgar, Z Moshfeghy, R Janghorban, **M Doostfatemeh**. Predictors of Sexual Dysfunction in HIV-infected Men. Acta facultatis medicae Naissensis 39 (3), 294-309. 2022

Lectured Workshops:

1. Clinical trial: Shiraz University of Medical Science (2018).
2. Introduction to R software: Shiraz University of Medical Science (2016).

3. Modeling survival data: proportional-hazard and proportional-odds model, Iranian Epidemiology Congress. Yasouj, Iran. (2014).
4. Primary and advance in SPSS, summer school, Shiraz University of Medical Science. (2013 up to 2015).
5. Effective searching in scientific database (2013).

Selected Professional Activities

1. Thesis supervisor, MS Students, department of Biostatistics, 2017 up to now.
2. Thesis Adviser, PhD, MS and medical students, Nursing School, Medical school, 2017 up to now.
3. Statistics Consultant in RCC, research center, 2012 up to now.
4. Refree of Research council , Shiraz University of Medical Science, 2017 up to now.

Skills

Computing

Proficient at using R Software, MATLAB, STATA, SPSS.

Languages

Fluent in English, Arabic, Farsi (Mother Tongue)