Ezgi Nazman

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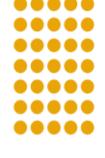**LinkedIn:** https://www.linkedin.com/in/ezgi-nazman-ph-d-7460b18a/
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Well-experienced researcher in multivariate statistics and machine learning. Adept at conducting literature reviews, simulations, data synthesis, and analysis. Well-versed creating efficient systems to organize and manage experimental and real data processes.

Study Areas

Data mining
Multivariate statistics
Time series
Machine learning
Data envelopment
Experimental design
Exploratory data analysis

Software and Programming Skills

R (caret, e1071, ggplot2, dplyr, tidyr, etc.)
Python (numpy, pandas, BeautifulSoup, Selenium, sklearn, etc)
Matlab
SQL (PostgreSQL)
Latex
SPSS
Familier with AWS Ec2, Spark, TensorFlow

Work History

2019/12 - Current	**Research Assistant (Ph.D)** *Cumhuriyet University, Sivas, Turkey*
2017/02 – 2019/12	**Research Assistant** *Gazi University, Ankara, Turkey*
2016/10 – 2017/01	**Research Assistant** *Cumhuriyet University, Sivas, Turkey*
2014/02 – 2016/09	**Research Assistant** *Gazi University, Ankara, Turkey*
2013/02 – 2014/02	**Research Assistant** *Cumhuriyet University, Sivas, Turkey*

Education

2015/09 – 2019/11	**Ph.D.: Statistics** *Gazi University – Ankara, Turkey* Title: Comparison of penalized logistic regression methods in rare events
2013/09 – 2015/07	**Master of Science: Statistics** *Gazi University - Ankara, Turkey* Title: Obtaining homogeneous groups with combined cluster and discriminant analysis
2011/09 – 2012/06	**Erasmus Exchange: Informatics&Management** *University of Hradec Králové* – Hradec *Králové, Czechia*
2007/09 – 2012/07	**Bachelor of Science: Statistics** *Ege University – Izmir, Turkey*

Scientific Studies

A. ARTICLES

A1. Nazman, E. & Olmuş, H. Effects on Mantel-Haenszel Chi-square Statistic of Scores in Ordered Two-way Contingency Tables. Bitlis Eren University Journal of Science, 2020. (Accepted)

A2. Nazman, E. & Olmuş, H. Comparison greedy matching methods on cigarette usage of individuals in Turkey. Cumhuriyet Science Journal,41(2), 369-376, 2020.

A3. Olmus H., Bespinar E., **Nazman E**. Performance evaluation of some propensity score matching methods by using binary logistic regression.model. Communications in Statistics-Simulation and Computation, 2019.

A4. Olmus H., **Nazman E.**, Erbas S. Comparison of penalized logistic regression models for rare event case. Communications in Statistics-Simulation and Computation, 2019.

A5. Ünsal M. G. & **Nazman E**. Investigating socio-economic ranking of cities in Turkey using data envelopment analysis (DEA) and linear discriminant analysis (LDA). Annals of Operations Research, vol.0, pp.1-15, 2018.

A6. Nazman E., Olmus H., Erbas S. Investigating Some Classification Methods to Evaluate Efficiency Results: A Case Study by Using Conjoint Analysis. Journal of Polytechnic, vol.22, pp.687-694, 2019.

A7. Çelik B., Üçok C. Ö. , **Nazman E**. Evaluation of the use of cone beam computed tomography and digital panoramic radiography in the diagnosis of articular eminence and glenoid fossa pneumatization. Selçuk Dental Journal, vol.6, pp.280-286, 2019.

A8. Nazman E., Olmus H., Erbas S. Investigating Potential Risk Factors Affecting on Suicidal Ideation Among Adolescents in Turkey. Society and Social Work, vol.29, pp.270-291, 2018.

A9. Olmuş H., **Nazman E.**, Erbaş S. An Evaluation of the Two Parameter (2-PL) IRT Models Through a Simulation Study. Gazi Journal of Science, vol.30, pp.235-249, 2017.

A10. Çabuk E. & Erbaş S. Evaluation of Group Homogeneity in Gaussian Mixture Models Using Combined Cluster and Discriminant Analysis. Sinop University Journal of Natural Sciences, vol.2, pp.121-132, 2017.

B. ORAL PRESENTATIONS

B1. Aydın O., **Nazman E.** A case study on machine learning classification algorithms in R. satRday Gdansk, Gdansk, Poland, 17 - 18 May 2019, pp.16

B2. Olmuş H., **Nazman E.**, Erbaş S. Inferences of Firth LR, FLIC and FLAC in terms of bias in rare event case. International Conference on Advances in Statistics, Athens, Greece, 22 - 24 April 2019, pp.26

B3. Nazman E., Erbaş S., Olmuş H. Penalized Logistic Regression for Classification: A Case Study for non-OECD Countries. 11th International Statistics Day Conference, Muğla, Turkey, 3 - 07 October 2018, pp.220

B4. Olmuş H., **Nazman E.**, Erbaş S. Power analysis of Mantel-Haenszel Chi-Square statistic by using several scores for ordered contingency tables. 4th International Researchers, Statisticians and Young Statisticians Congress, İzmir, Turkey, 28 - 30 April 2018, pp.40

B5. Nazman E., Erbaş S., Olmuş H. Comparison of link functions in binary response model by using Firth's penalized maximum likelihood estimation method. 4th International Researchers, Statisticians and Young Statisticians Congress, İzmir, Turkey, 28 - 30 April 2018, pp.95

B6. Şener H., Erbaş S., **Nazman E.** A Comparison on the Ranking of Decision Making Units of Data Envelopment and Linear Discriminant Analysis. 10th International Statistics Congress, Ankara, Turkey, 6 - 08 December 2017, pp.192

B7. Nazman E., Erbaş S., Olmuş H. Determining Efficiencies of Different Product Concepts Using Conjoint Analysis(CA) and Data Envelopment Analysis(DEA). 3rd International Researchers, Statisticians and Young Statisticians Congress, Konya, Turkey, 24 - 26 May 2017, pp.217

B8. Olmuş H., **Nazman E.**, Erbaş S. Investigating of Ability Parameter Estimation Using Bootstrap Method for 2-Parameter Logistic Model. 3rd International Researchers, Statisticians and Young Statisticians Congress, Konya, Turkey, 24 - 26 May 2017, pp.259

B9. Çabuk E., Erbaş S. Determining Homogeneity of Provinces According to the Health Facilities in Turkey. The 8th Conference of Eastern Mediterranean Region of the Internatıonal Biometric Society, Nevşehir, Turkey, 11 -15 May 2015, pp.52

B10. Dağlıoğlu H., Erbaş S., **Çabuk E.** The Comparison of Classification Performance of Proportional Odds Model, Decision Tree and Artificial Neural Network Methods for Continuous Independent Variables. 15th International Symposium on Econometrics, Operations research and Statistics, Isparta, Turkey, 22 – 25 August 2014, pp.535-551**.**

C. BOOK

C1. Olmuş H., Erbaş S., **Nazman E.** Statistical Experimental Design with SPSS Aplications for Researchers. Gazi Publishing, Ankara, 2017.

D. REFEREEING

D1. Anatolian Journal of Cardiology, January 2020
D2. Bitlis Eren University Journal of Natural Sciences, December 2019
D3. Packt Publishing, 2018
D4. Journal of Mathematics and Statistics, December 2017
D5. American Journal of Applied Sciences, May 2017

E. GIVEN COURSES

E1. Algorithm Design (2019-2020 Spring term), Cumhuriyet University, Department of Statistics&Computer Sciences

F. OTHERS

F1. 6th International Researchers, Statisticians, and Young Statisticians Congress, Organizing Committee Member University of Kyrenia, 23-26th of June, 2021
F2. İstanbul Data Science Academy, Data Science Summer Bootcamp, Turkey, May 2020-Current
F3. Big Data, Spark, Machine Learning, Istanbul Data Science Academy, Turkey, 15th of May 2020
F4. World Women Conference, Scientific Advisory Committee Member, Ankara, Turkey, 7-8th of March, 2020
F5. Data Mining with R Summer School, Istanbul University & TOVAK, 7- 13th of September, 2015
F6. Workshop on Global Optimization, Izmir Economy Universtiy, Izmir, Turkey, 11-12th of July, 2011
F7. 8th International Statistics Student Colloquium, Dokuz Eylül University, Izmir, Turkey, 14-15th of May, 2011
F8. Bush Gardens/Adventure Island, International Work&Travel Program, Tampa, FL, USA, June-September, 2009
F9. The Inn Hotel, International Work&Travel Program Okoboji, Iowa, USA, June-September, 2008

Hobbies: Singing, travelling, trekking, and biking