# Ezgi Nazman

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**Github** : https://github.com/ezgicn

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

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|---|---|
| Data mining | ●●●●● |
| Multivariate statistics | ●●●●● |
| Machine learning | ●●●●● |
| Data envelopment | ●●●●○ |
| Experimental design | ●●●●● |
| Exploratory data analysis | ●●●●● |
| Web scraping | ●●●●● |
| NLP | ●●●●○ |

## Software and Programming Skills

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|---|---|
| R (caret, e1071, ggplot2, dplyr, tidyr, etc.) | ●●●●○ |
| Python (pandas, BeautifulSoup, sklearn, flask etc) | ●●●●○ |
| Matlab | ●●●●○ |
| SQL (PostgreSQL, MongoDB) | ●●●○○ |
| Latex | ●●●○○ |
| SPSS | ●●●●● |
| Tableau | ●●●●○ |
| AWS Ec2 | ●●●●○ |
| Spark | ●●●●○ |

## Education

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| **09/2007 - 07/2012** | **Bachelor:** Statistics, Ege University, Izmir, Turkey |
| **09/2011 - 06/2012** | **Erasmus:** Informatics and Management, University of Hradec Králové, Hradec Králové, Czechia |
| **09/2013 - 07/2015** | **MSc:** Statistics, Gazi University, Ankara, Turkey |
| **09/2015 - 11/2019** | **Ph.D:** Statistics, Gazi University, Ankara,Turkey |

## Work History

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|---|---|
| **02/2013 - 02/2014** | Research Assistant**,** Sivas Cumhuriyet University, Sivas, Turkey |
| **02/2014 - 12/2019** | Research Assistant, Gazi University, Ankara, Turkey |
| **12/2019 -** | Research Assistant (Ph.D)**,** Sivas Cumhuriyet University, Sivas, Turkey |

## Book

**1**. Statistical Experimental Design with SPSS Aplications for Researchers (Araştırmacılar için SPSS Uygulamalı İstatistiksel Deney Tasarımı). Gazi Publishing, Ankara, 2017.

## Reviewer

**1.** Anatolian Journal of Cardiology, January 2020.

**2.** Bitlis Eren University Journal of Natural Sciences, December 2019.

**3.** Packt Publishing, September 2018.

**4.** Journal of Mathematics and Statistics, December 2017.

**5.** American Journal of Applied Sciences, May 2017.

## Given Courses

**1.** Algorithm Design (2019-2020 Spring), Sivas Cumhuriyet University

**2.** Programming Languages (2020-2021 Autumn), Sivas Cumhuriyet University

**3.** Computer Organization (2020-2021 Autumn), Sivas Cumhuriyet University

## Articles

**1.** Inferences from Bootstrap Method for Ability Parameters in 2-Parameter Logistic Model. Celal Bayar University Journal of Science, 16(3): 333-338, 2020.

**2.** Effects on Mantel-Haenszel Chi-square Statistic of Scores in Ordered Two-way Contingency Tables. Bitlis Eren University Journal of Science, 9(3):1060-1070, 2020.

**3.** Comparison greedy matching methods on cigarette usage of individuals in Turkey. Cumhuriyet Science Journal,41(2), 369-376, 2020.

**4.** Performance evaluation of some propensity score matching methods by using binary logistic regression.model. Communications in Statistics-Simulation and Computation, 2019.

**5.** Comparison of penalized logistic regression models for rare event case. Communications in Statistics-Simulation and Computation, 2019.

**6.** Investigating socio-economic ranking of cities in Turkey using data envelopment analysis (DEA) and linear discriminant analysis (LDA). Annals of Operations Research, 1-15, 2018.

**7.** Investigating Some Classification Methods to Evaluate Efficiency Results: A Case Study by Using Conjoint Analysis. Journal of Polytechnic, 22, 687-694, 2019.

**8.** 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, 6, 280-286, 2019.

**9.** Investigating Potential Risk Factors Affecting on Suicidal Ideation Among Adolescents in Turkey. Society and Social Work, 29, 270-291, 2018.

**10.** An Evaluation of the Two Parameter (2-PL) IRT Models Through a Simulation Study. Gazi Journal of Science, 30, 235-249, 2017.

**11.** Evaluation of Group Homogeneity in Gaussian Mixture Models Using Combined Cluster and Discriminant Analysis. Sinop University Journal of Natural Sciences, 2, 121-132, 2017.

## Presentations

**1.** A case study on machine learning classification algorithms in R. satRday Gdansk, Gdansk, Poland, May 2019.

**2.** Inferences of Firth LR, FLIC and FLAC in terms of bias in rare event case. International Conference on Advances in Statistics, Athens, Greece, April 2019.

**3.** Penalized Logistic Regression for Classification: A Case Study for non-OECD Countries. 11th International Statistics Day Conference, Muğla, Turkey, October 2018.

**4.** 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, April 2018.

**5.** 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, April 2018.

**6.** A Comparison on the Ranking of Decision Making Units of Data Envelopment and Linear Discriminant Analysis. 10th International Statistics Congress, Ankara, Turkey, December 2017.

**7.** 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, May 2017.

**8.** Investigating of Ability Parameter Estimation Using Bootstrap Method for 2-Parameter Logistic Model. 3rd International Researchers, Statisticians and Young Statisticians Congress, Konya, Turkey, May 2017.

**9.** 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, May 2015.

**10.** 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, August 2014.


## Others

**1.** 6th International Researchers, Statisticians, and Young Statisticians Congress, Organizing Committee Member University of Kyrenia, June, 2021.

**2.** İstanbul Data Science Academy, Data Science Summer Bootcamp, Turkey, June-October 2020.

**3.** Big Data, Spark, Machine Learning, Istanbul Data Science Academy, Turkey, May 2020.

**4.** World Women Conference, Scientific Advisory Committee Member, Ankara, Turkey, March, 2020.

**5.** Data Mining with R Summer School, Istanbul University & TOVAK, September, 2015.

**6.** Workshop on Global Optimization, Izmir Economy Universtiy, Izmir, Turkey, July, 2011.

**7.** 8th International Statistics Student Colloquium, Dokuz Eylül University, Izmir, Turkey, May, 2011.

**8.** Bush Gardens/Adventure Island, International Work&Travel Program, Tampa, FL, USA, June-September, 2009.

**9.** The Inn Hotel, International Work&Travel Program Okoboji, Iowa, USA, June-September, 2008.

**Hobbies:** Singing, travelling, trekking, biking