

# MURAT YAZICI, PhD *candidate*

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## PERSONAL

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Turkish citizen, Single, Birth: 31.12.1985

## EDUCATIONS

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- 2024- Ph.D., **Statistics**, Prague University of Economics and Business, Prague, Czech Republic
- 2020-2023 M.Sc., Applied Mathematics and Computer Science  
*focus on **Mathematical Modeling and Information Technologies***, Diploma with Honors,  
Southern Federal University, Rostov-on-Don, Russia
- 2007-2011 M.Sc., **Quantitative Methods**, Marmara University, Istanbul, Turkey
- 2003-2007 B.Sc., **Statistics**, Mimar Sinan University, Istanbul, Turkey
- 1999-2003 High school, **Science and Mathematics**, Haydarpaşa Anatolian High School, Istanbul, Turkey

## AWARDS

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- 2022 **Outstanding Student Award**, I. I. Vorovich Institute of Mathematics, Mechanics and Computer Science,  
Southern Federal University, Russia
- 2021 **Young Scientist Award**, International Scientist Award on Engineering, Science, and Medicine by VDGGOOD  
Professional Association

## MEMBERSHIPS

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- 2021 - Institute of Mathematical Statistics (*IMS*)

## HONORABLE EDITOR

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- 2021 - Canadian Journal of Biomedical Research and Technology (*CJBRT*), Toronto, CANADA

## EDITORIAL BOARD MEMBER

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- 2021 – World Journal of Engineering Research and Technology (*WJERT*)
- 2020 – Biomedical Research Network, LLC, New York, USA

## JOURNAL REVIEWER

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Research in Medical & Engineering Sciences, New York, USA  
Biostatistics and Biometrics Open Access Journal (*BBOAJ*), Ontario, CANADA  
Open Science Journal of Statistics and Application, New York, USA  
Mathematical and Statistical Sciences, New York, USA  
International Journal of Computational and Data Sciences, New York, USA  
International Journal of Computers & Technology (*IJCT*), INDIA

## COMPUTER KNOWLEDGE

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Python, VPython, R, Maple, LaTeX, HTML, MQL4,  
Matlab, EViews, SPSS, ANSYS, Weka, Excel Macro

## CERTIFICATIONS

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IBM Certified Data Architect – Big Data - *IBM*  
 IBM Certified Specialist – SPSS Modeler Professional v3 –*IBM*  
 IBM Certified Specialist - SPSS Statistics Level 1 v2 - *IBM*  
 IBM i2 Analyst Notebook Support Professional v1 – *IBM*

## WORK EXPERIENCES

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2015 – 2016 **Senior Data Scientist & Big Data Architect**, *JForce Information Technologies Inc.*, Istanbul, Turkey  
 2013 – 2014 **Data Scientist & Researcher in Big Data Analytics**, *Etiya Information Technologies Inc.*, Istanbul, Turkey  
 2009 – 2009 **Intern, Department of IT**, *Koç Media - Zer Inc.*, Istanbul, Turkey

## LIST OF PUBLICATIONS

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### THESES

1. Ph.D.: “**Fuzzy cluster analysis methods based on categorical data**”, Supervisor: doc. Ing. Zdeněk Šulc, (*ongoing*)
2. M.Sc.: “**Applications of machine learning in finance**”, Supervisor: Professor Oleg Kudryavtsev, 2023.
3. M.Sc.: “**Fuzzy robust regression with an application**”, Supervisor: Professor Ismail Hakkı Armutlulu, 2011.
4. B.Sc.: “**Bayesian statistical estimation**”, Supervisor: Professor Aydin Erar, 2007.

### BOOKS AND BOOK CHAPTERS

5. Yazici M., **Machine Learning Approaches on the Bankruptcy Modeling: Altman z-score, Neural Net, and CatBoost Classifier models**. *Eliva Press*, ISBN-10: 9999319335, June 2024.
6. Yazici M., **Multivariate Analysis: Factor and Discriminant Analyses**, In: Kumar D. ed., *Machine Learning Techniques for Improved Business Analytics*, *IGI Global*, 2019. <http://dx.doi.org/10.4018/978-1-5225-3534-8.ch003>
7. Yazici M., **Most Effective Users in Twitter Online Social Networks: The E-User Index with centrality measurement**. *Lambert Academic Publishing*, OmniScriptum GmbH & Co. KG, Bahnhofstrabe 28, 66111 Saarbrücken, Deutschland / Germany, ISBN: 978-3-330-06034-0, March 2017.
8. Yazici M., **Regression Analysis including OLS, Robust and Fuzzy Methods**, In: Roy A. K. ed., *Applied Big Data Analytics*, *CreateSpace Independent Publishing Platform*, ISBN: 978-1512347180, May 2015.

### INVITED TALKS

9. Spatial point process and its application in geographical epidemiology, **5th International Conference on Biometrics and Biostatistics**, October 2016, Houston, Texas/USA. [https://www.hilarispublisher.com/conference-abstracts-files/2155-6180.C1.002\\_005.pdf](https://www.hilarispublisher.com/conference-abstracts-files/2155-6180.C1.002_005.pdf)

### CONFERENCES

10. Prediction cost on media campaigns, **RSEP & SRH Dresden School of Management (DSM) International Conference on Economics, Finance and Business**, 28-29 August 2024, Dresden, Germany.
11. Anomaly detection based Fuzzy *k*-Mode clustering algorithm with categorical data, **International Conference on Mathematical Modeling with Modern Applications**, 4-6 June 2024, Istanbul, Turkey.
12. Fuzzy Estimators using the least square ratios in the simple linear regression, **International Conference on Computational Science and Mathematics (ICCSCM)**, Dec 2023, Dublin, Ireland.
13. A Neural Network solution for the bankruptcy modeling, **Modern information technologies: Trends and development prospects**, May 2022, Rostov-on-Don, Russia.
14. The Weighted Least Squares Ratio (WLSR) Method to M-estimators, **SAI Computing Conference**, July 2016, London, United Kingdom.
15. The Least Squares Ratio (LSR) Approach to Fuzzy Linear Regression Analysis, **International Conference for Engineering and Technology**, May 2016, Toronto, Canada.
16. Social Network Analysis with E-User Index, **11th International Statistics Student Colloquium**, Yıldız Technique University, May 2014, Istanbul, Turkey.

## PEER-REVIEWED JOURNAL PAPERS

17. Yazici M., Iterative Least Absolute Ratios (ILAR) Approach to Support Vector Regression for The Parameter Optimization, (ongoing)
18. Yazici M., The existing methods of fuzzy cluster analysis for categorical data. (ongoing)
19. Yazici M., How does the Law of Large Number work on the coin tossing experiments? (ongoing)
20. Yazici M., The Least Square Ratio (LSR) Method: Mathematical Basis, (ongoing)
21. Yazici M., Weighted least square ratios regression analysis using Gustafson-Kessel loadings. (ongoing)
22. Yazici M., Similarity measures for mixed-type data clustering. *Seminar paper In: Prague University of Economics and Business*, pp. 1-18, Czech Republic, 2024.
23. Yazici M., The existing methods of fuzzy cluster analysis for categorical data. *Seminar paper In: Prague University of Economics and Business*, pp. 1-22, Czech Republic, 2024.
24. Yazici M., Prediction cost on media campaigns. *In: RSEP & SRH Dresden School of Management (DSM) International Conference on Economics, Finance and Business*. Dresden, 28.08.2024 – 29.08.2024. BC GRUP INC, 2024, p. 41–52. <https://doi.org/10.19275/RSEPCONFERENCES321>.
25. Yazici M., A neural network solution for the bankruptcy modeling, *Modern information technologies: trends and development prospects* [Electronic resource]: Proceedings of the XXIX scientific conference (Southern Federal University, Rostov-on-Don), **Southern Federal University Press**. 2022. p. 288-289.
26. Yazici M., Spatial point pattern analyses and its use in geographical epidemiology, *Biostatistics and Biometrics Open Access Journal*, 2017;1(4): 555573. <https://doi.org/10.19080/BBOAJ.2017.01.555573>
27. Yazici M., How Can We Obtain Meaningful Information From A Big Data Pool? *World Journal of Engineering Research and Technology*, Vol. 3, Issue 1, pp:16-21, 2017. [https://www.wjert.org/home/article\\_abstract/131](https://www.wjert.org/home/article_abstract/131)
28. Yazici M., The Weighted Least Squares Ratio (WLSR) Method to M-estimators, *SAI Computing Conference*, July 2016, London, United Kingdom, p:434-445. <https://doi.org/10.1109/SAI.2016.7556018>
29. Yazici M., A Least Squares Ratio (LSR) Approach to Fuzzy Linear Regression Analysis, *Academic Journal of Science (AJS)*, 5 (1), 373-382, April 2016. <https://t.ly/auXAV>
30. Yazici M., A new approach called Weighted Least Squares Ratio (WLSR) Method to M-estimators, *Journal of Information Sciences and Computing Technologies (JISCT)*, Vol. 5 No.1, p: 399-414, ISSN: 2394-9066, November 17, 2015. <http://scitecresearch.com/journals/index.php/jisct/article/view/466/342>
31. Yazici, M., Introduction to Text Mining, *IBM Big Data & Analytics Hub.*, October 2015.
32. Yazici, M., Kernel-based pattern recognition in machine learning, *IBM Big Data & Analytics Hub.*, November 2015.
33. Yazici, M., Deriving insights from text mining and machine learning. *IBM Big Data & Analytics Hub.*, November 2015. <http://www.dataversity.net/banking-fibofinancial-institutions-turn-standard-value-compliance/>
34. Yazici M., Text Mining and Information Management, *International Journal of Scientific Engineering and Applied Science (IJSEAS)*, Vol.1, Issue-7, ISSN: 2395-3470, 2015. <https://ijseas.com/volume1/v1i7/ijseas20150727.pdf>
35. Yazici M., Sarac M., Centrality measures with a new index called E-User (Effective User) Index for determining the most effective user in Twitter Online Social Network, *International Journal on Computer Science and Engineering (IJCSE)*, Vol:7 (1), p:1-12, ISSN: 0975-3397, Jan 2015. <https://api.semanticscholar.org/CorpusID:1500573>
36. Armutlulu I. H., Yazici M., Comparison of Fuzzy Robust Regression with Other Regression Techniques and an Application (In Turkish), *Marmara University, Journal of Oneri*, Vol: 38 (10), p: 33- 51, ISSN: 1300-0845, July 2012. <https://dergipark.org.tr/tr/download/article-file/165709>