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OVERVIEW

Full Professor, PhD. in Statistics

APPOINTMENTS

Full Professor

2024-Current

*Necmettin Erbakan University, Department of Mathematics-Computer,
Konya, Turkey*

- Teaching: Probability and Statistics, Basic Mathematics, Calculus, Data Analysis, Numerical Analysis

Associate Professor

2019-2024

*Necmettin Erbakan University, Department of Mathematics-Computer,
Konya, Turkey*

- Teaching: Probability and Statistics, Basic Mathematics, Calculus, Data Analysis, Numerical Analysis

Visiting Assistant Professor

2018-2019

*McMaster University, Department of Mathematics and Statistics,
Hamilton, Canada*

Assistant Professor

2016-2018

*Necmettin Erbakan University, Department of Mathematics-Computer Sciences,
Konya, Turkey*

- Teaching: Probability and Statistics, Basic Mathematics, Calculus, Data Analysis, Numerical Analysis

Research Assistant

2011-2016

*Necmettin Erbakan University, Department of Mathematics-Computer Sciences,
Konya, Turkey*

QUICK LINKS

[\[Google Scholar\]](#) [\[Web of Science\]](#) [\[Linkedin\]](#)

EDUCATION

PhD in Statistics <i>Selçuk University, Konya, Turkey</i>	2011-2015
Msc Cryptography <i>Middle East Technical University, Institute of Applied Mathematics, Ankara, Turkey</i>	2008-2011
BS Mathematics <i>Middle East Technical University, Faculty of Science, Department of Mathematics, Ankara, Turkey</i>	2003-2008

BOOK CHAPTER

5. [Y. Asar](#), “[Çoklu Bağlantı](#)”, *Doğrusal Regresyon Analizi ve Uygulamaları* **NEU Press**, 201-254, (2022).
4. [Y. Asar](#), M. Erişoğlu, “[Liu Estimator in the Multinomial Logistic Regression Model](#)”, *İstatistiksel Tekniklerle Güncel Analizler* **Gazi Kitabevi**, 233-248, (2022).
3. [Y. Asar](#), S.E. Ahmed, and B. Yüzbaşı, “[Efficient and Improved Estimation Strategy in Zero-Inflated Poisson Regression Models](#)”, *Proceedings of the Twelfth International Conference on Management Science and Engineering Management. Lecture Notes on Multidisciplinary Industrial Engineering* **Springer International Publishing**, 329-342, (2019).
2. B. Yüzbaşı and [Y. Asar](#), “Ridge Type Estimation in the Zero-Inflated Negative Binomial Regression”, *Econometrics: Methods and Applications*, **Gazi Kitabevi**, pp. 93-104, (2018).
1. [Y. Asar](#), “[Liu-type Negative Binomial Regression: A Comparison of Recent Estimators and Applications](#)”, *In Trends and Perspectives in Linear Statistical Inference*, **Springer, Cham.**, pp. 23-39, (2018).

PEER-REVIEWED JOURNAL PAPERS [\[statistics\]](#)[\[arXiv\]](#)

38. C. Tanış and [Y. Asar](#), “[Almost unbiased ridge estimator in Bell regression model theory and application to plastic plywood data](#)”, *Statistics*, **58:5**, 1031–1045 (2024).
37. C. Tanış and [Y. Asar](#), “[Liu Type Estimator in Conway-Maxwell-Poisson Regression Model: Theory and Application](#)”, *Statistics*, **58:1**, 65–86 (2024).
36. [Y. Asar](#), “[Performance of a new bias corrected estimator in beta regression model: a Monte Carlo study](#)”, *Necmettin Erbakan University Journal of Science and Engineering*, **5:2**, 38–49 (2023).
35. R. A. Belaghi, [Y. Asar](#) and R. Larsson, “[Improved shrinkage estimators in the beta regression model with application in econometric and educational data](#)”, *Statistical Papers*, **64**, 1891–1912 (2023).

34. [Y. Asar](#) and R. A. Belaghi, “[Estimation in Weibull Distribution Under Progressively Type-I Hybrid Censored Data](#)”, *REVSTAT-Statistical Journal*, **20:5**, 563–586 (2022).
33. [Y. Asar](#) and R. A. Belaghi, “[Inference for Two Lomax Populations Under Joint Type-II Censoring](#)”, *Communications in Statistics – Simulation and Computation*, **51:11**, 6808–6825 (2022).
32. [Y. Asar](#) and Z. Algamal, “[A New Two-parameter Estimator for the Gamma Regression Model](#)”, *Statistics, Optimization & Information Computing*, **10**, 750–761 (2022).
31. J. Wu and [Y. Asar](#), “[A Two-Parameter Estimator in Linear Measurement Error Model](#)”, *Statistics*, **56:4**, 739–754 (2022).
30. B. Yüzbaşı, [Y. Asar](#) and S. E. Ahmed, “[Liu-type Shrinkage Estimations in Linear Models](#)”, *Statistics*, **56:2**, 396–420 (2022).
29. [Y. Asar](#) and M. Korkmaz, “[Almost unbiased Liu-type estimators in gamma regression model](#)”, *Journal of Computational and Applied Mathematics*, **403**, 113819 (2022).
28. M. Arashi, [Y. Asar](#) and B. Yüzbaşı, “[SLASSO: A Scaled LASSO for Multicollinear Situations](#)”, *Journal of Statistical Computation and Simulation*, **91:15**, 3170–3183 (2021).
27. [Y. Asar](#) and E. Ögütçüoğlu, “[A New Biased Estimation Method in Tobit Regression: Theory and Application](#)”, *Journal of Statistical Simulation and Computation*, **91:6**, 1257–1273 (2021).
26. Y. Li, [Y. Asar](#) and J. Wu, “[On the Stochastic Restricted Liu Estimator in Logistic Regression Model](#)”, *Journal of Statistical Simulation and Computation*, **90:15**, 2766–2788, (2020).
25. Z. Algamal and [Y. Asar](#), “[Liu-type estimator for the gamma regression model](#)”, *Communications in Statistics – Simulation and Computation*, **49-8**, 2035–2048 (2020).
24. [Y. Asar](#) and K. Kılınç, “[A Jackknifed Ridge Estimator in Probit Regression Model](#)”, *Statistics*, **54:4**, 667–685 (2020).
23. J. Wu and [Y. Asar](#), “[Efficiency of the Principal Component Liu-type Estimator in Logistic Regression Models](#)”, *REVSTAT-Statistical Journal* **18:3**, 325–336 (2020).
22. [Y. Asar](#) and J. Wu, “[An Improved and Efficient Biased Estimation Technique in Logistic Regression Model](#)”, *Communications in Statistics – Theory and Methods* **49:9**, 2237–2252 (2020).
21. J. Wu and [Y. Asar](#), “[On the Stochastic Restricted Liu-type Maximum Likelihood Estimator in Logistic Regression Model](#)”, *Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics* **68:1**, 643–653 (2019).
20. B. Yüzbaşı, [Y. Asar](#), M. Ş. Şık and A. Demiralp, “[Improving Estimations in Quantile Regression Model with Autoregressive Errors](#)”, *Thermal Science* **22:1**, 97-107 (2018).
19. [Y. Asar](#), “[Performance of a New Restricted Biased Estimator in Logistic Regression](#)”, *Suleyman Demirel University Journal of Natural and Applied Sciences* **22:1**, 53-59 (2018).
18. [Y. Asar](#) and J. Wu, “[Performance of the almost unbiased ridge-type principal component estimator in logistic regression model](#)”, *Communications in Statistics – Simulation and Computation* **47:10**, , 2925-2937 (2018).

17. J. Wu, Y. Asar and M. Arashi, “On the restricted almost unbiased Liu estimator in the Logistic regression model”, *Communications in Statistics – Theory and Methods* **47:18**, 4389-4401 (2018).
16. Y. Asar and A. Genc, “A New Two-Parameter Estimator for the Poisson Regression Model”, *Iranian Journal of Science and Technology, Transactions A: Science* **42:2**, 793-803 (2018).
15. J. Wu and Y. Asar, “A weighted stochastic restricted ridge estimator in partially linear model”, *Communications in Statistics – Theory and Methods* **46:18**, 9274-9283 (2017).
14. Y. Asar and A. Genc, “Two-parameter ridge estimator in the binary logistic regression”, *Communications in Statistics – Simulation and Computation* **46:9**, 7088-7099 (2017).
13. Y. Asar, M. Arashi and J. Wu, “Restricted ridge estimator in the logistic regression model”, *Communications in Statistics – Simulation and Computation* **46:8**, 6538-6544 (2017).
12. J. Wu and Y. Asar, “More on the restricted Liu estimator in the logistic regression model”, *Communications in Statistics – Simulation and Computation* **46:5**, 3680-3689 (2017).
11. Y. Asar, M. Erisoglu and M. Arashi, “Developing a restricted two-parameter Liu-type estimator: A comparison of restricted estimators in the binary logistic regression model”, *Communications in Statistics – Theory and Methods* **46:4**, 6864-6873 (2017).
10. Y. Asar, “Some new methods to solve multicollinearity in logistic regression”, *Communications in Statistics – Simulation and Computation* **46:4**, 2576-2586 (2017).
9. Y. Asar and A. Genc, “A note on some new modifications of ridge estimators”, *Kuwait Journal of Science* **44:3**, 75-82 (2017).
8. J. Wu and Y. Asar, “On almost unbiased ridge logistic estimator for the logistic regression model”, *Hacettepe Journal of Mathematics and Statistics* **45:3**, 989-998 (2016).
7. Y. Asar, “Liu-type logistic estimators with optimal shrinkage parameter”, *Journal of Modern and Applied Statistical Methods* **15:1**, 738-751 (2016).
6. Y. Asar and M. Erisoglu, “Influence diagnostics in two-parameter Ridge regression”, *Journal of Data Science* **14**, 33-52 (2016).
5. Y. Asar and A. Genc, “New shrinkage parameters for the Liu-type logistic estimators”, *Communications in Statistics – Simulation and Computation* **45:3**, 1094-1103 (2016).
4. A. Karaïsa, Y. Asar and D.T. Tollu, “Fine spectra of triangular triple-band matrices on sequence spaces c and lp , $(0 < p < 1)$ ”, *Mathematical Communications* **21**, 65-83 (2016).
3. A. Karaïsa, D.T. Tollu and Y. Asar, “Stancu type generalization of q -Favard–Szász operators”, *Applied Mathematics and Computation* **264**, 249–257 (2015).
2. A. Karaibrahimoglu, Y. Asar and A. Genc, “Some new modifications of Kibria’s and Dorugade’s methods: An application to Turkish GDP data”, *Journal of the Association of Arab Universities for Basic and Applied Sciences* **20**, 89-99 (2016).
1. Y. Asar, A. Karaibrahimoglu and A. Genc, “Modified Ridge Regression Parameters: A Comparative Monte Carlo Study”, *Hacettepe Journal of Mathematics and Statistics* **43:5**, 827-841 (2014).

CONFERENCE PROCEEDINGS

35. Y. Asar, “An Almost Unbiased Ridge Estimator in Beta Regression”, *9th International IFS and Contemporary Mathematics and Engineering Conference*, **July 08-11**, (2023).
34. M. Korkmaz, Y. Asar, “Investigating the Performance of Almost Unbiased Estimators in Gamma Regression Model”, *4th International Conference on Mathematical and Related Sciences*, **October 22-24**, (2021).
33. M. Arashi, Y. Asar, and B. Yüzbaşı,, “A scaled LASSO for multicollinear situations”, *13th International Conference of the ERCIM WG on Computational and Methodological Statistics (CMStatistics 2020)*, **Virtual Conferans, Dec 19-21**, (2020).
32. B. Yüzbaşı, S.E. Ahmed and Y. Asar, “Liu Pretest and Stein-Type Shrinkage Estimation in Linear Regression Models”, *11. International Statistics Days Conference, Mugla, Turkey, Oct 03-06*, (2018).
31. B. Yüzbaşı, Y. Asar and Z. Yüzbaşı, “A New Quantile Penalty Estimation”, *11. International Statistics Days Conference, Mugla, Turkey, Oct 03-06*, (2018).
30. K. Kılınç and Y. Asar, “Performance of Linear Unified Estimator in Probit Regression”, *International Conference on Mathematical Studies and Applications, Karaman, Turkey, Oct 04-06*, (2018).
29. E. Ogutcuoglu and Y. Asar, “An Improved Estimation Method in Tobit Model”, *International Conference on Mathematical Studies and Applications, Karaman, Turkey, Oct 04-06*, (2018).
28. Y. Asar and B. Yüzbaşı, “A Biased Estimation Method in Zero Inflated Count Models”, *3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus, May 04-06*, (2018).
27. B. Yüzbaşı and Y. Asar, “Quantile Correlation Based Penalty Estimator”, *3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus, May 04-06*, (2018).
26. B. Yüzbaşı and Y. Asar, “Improved Biased Estimation Methods in Logistic Regression”, *3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus, May 04-06*, (2018).
25. M. Aydın and Y. Asar, “Öğrencilerin TIMSS 2015 Matematik Başarısının Kestirilmesinde Etkili Olan Değişkenlerin İncelenmesi”, *International Conference On Curriculum And Instruction, Muğla, Turkey, October 26-28*, (2017).
24. M.Ş. Şık, B. Yüzbaşı and Y. Asar, “Preliminary and Shrinkage Estimation in Quantile Regression Model with iid Errors”, *International Conference on Mathematical Modelling in Applied Sciences, St. Petersburg Polytechnic University, St. Petersburg, Russia, July 24-28*, (2017).
23. A. Demiralp, Y. Asar and B. Yüzbaşı, “Shrinkage and Penalty Estimation in Quantile Regression Model with Autoregressive Errors”, *International Conference on Mathematical Modelling in Applied Sciences, St. Petersburg Polytechnic University, St. Petersburg, Russia, July 24-28*, (2017).

22. B. Yüzbaşı, Y. Asar and M. Arashi, “Preliminary Test and Stein-Type Liu Estimators in Partially Linear Models: Sub-model Analysis”, *61st World Statistics Congress ISI2017, Marrakech, Morocco, July 16-21*, (2017).
21. Y. Asar, “Linear Unified Estimator in the Zero-Inflated Poisson Regression Model”, *3rd International Researchers, Statisticians and Young Statisticians Congress, Selçuk University, Konya, Turkey, May 24-26*, (2017).
20. M. Ş. Şık, B. Yüzbaşı, Y. Asar, “Controlling Bias in Quantile Regression Models under Gauss-Markov Assumptions”, *3rd International Researchers, Statisticians and Young Statisticians Congress, Selçuk University, Konya, Turkey, May 24-26*, (2017).
19. A. Demiralp, Y. Asar, B. Yüzbaşı, “Improved Estimation Strategies in Quantile Regression Model when Errors are Non-iid”, *3rd International Researchers, Statisticians and Young Statisticians Congress, Selçuk University, Konya, Turkey, May 24-26*, (2017).
18. Y. Asar and J. Wu, “On the Efficiency of an Almost Unbiased Ridge Logistic Estimator”, *International Conferans on Mathematics and Engineering, Yildiz Technical University, Istanbul, Turkey, May, 10-12*, (2017).
17. Y. Asar and B. Yüzbaşı, “Linear Unified Shrinkage Estimators in Linear Models”, *International Workshop on Mathematical Methods in Engineering, Çankaya University, Ankara, Turkey, April, 27-29*, (2017).
16. B. Yüzbaşı, Y. Asar, M.Ş. Şık, A. Demiralp, “Pretest and Stein-Type Estimations in Quantile Regression Model”, *International Workshop on Mathematical Methods in Engineering, Çankaya University, Ankara, Turkey, April, 27-29*, (2017).
15. Y. Asar, “On Biased Estimators in the Negative Binomial Regression Model”, *International Conference on Trends and Perspectives in Linear Statistical Inference, Istanbul, Turkey, August 22-25*, (2016).
14. Y. Asar and A. Genc, “A New Two-parameter Ridge Estimator in the Logistic Regression Model”, *International Conference on Trends and Perspectives in Linear Statistical Inference, Marmara University, Istanbul, Turkey, August 22-25*, (2016).
13. Y. Asar, “On a Two-Parameter Biased Estimator in the Poisson Regression Model”, *2nd International Researchers-Statisticians and Young Statisticians Congress, Hacettepe University, Ankara, Turkey, May 4-8*, (2016).
12. A. Karaibrahimoglu, Y. Asar, H. Basbozkurt and A. Genc, “Comparison of zero-inflated and negative binomial regression models of number of positive lymph nodes on breast cancer patients”, *9th International Statistics Congress, Eskisehir Osmangazi University, Antalya, Turkey, November 28-October 1*, (2015).
11. Y. Asar, A. Karaibrahimoglu, H. Basbozkurt and A. Genc, “Developing a Liu-type estimator for the poisson regression”, *9th International Statistics Congress, Eskisehir Osmangazi University, Antalya, Turkey, November 28-October 1*, (2015).
10. Y. Asar and A. Karaibrahimoğlu, “New methods to estimate the biasing parameters used in liu-type logistic regression: An application to data of bankruptcy of Turkish banks during the Asian financial crisis”, *International conference of Statistics and demography: the legacy of Corrado Gini, University of Padua, Treviso, Italy, September 8-11*, (2015).

9. A. Karaibrahimoğlu, Y. Asar and S. Küçükşen, “Comparison of Poisson-based regression models on overdispersed discopathy data”, *36th Annual Conference of the International Society for Clinical Biostatistics Utrecht, Utrecht, the Netherlands, August 23–28*, (2015).
8. A. Karaibrahimoğlu and Y. Asar , “An application of Liu-type logistic estimators to the population data of Sweden”, *11th International Conference of Applied Statistics, Statistical Society of Slovenia , Bled, Slovenia, September 21-24*, (2014).
7. Y. Asar and A. Genc, “On some biasing estimators for the logit model”, *25th Nordic Conference in Mathematical Statistics NORDSTAT2014, University of Turku, Turku, Finland, June 2-6*, (2014).
6. Y. Asar, A. Karaibrahimoğlu, H. Basbozkurt and A. Genc, “On Liu-type logistic estimators” , *9th International Statistics Day Symposium – ISDS2014, Selcuk University, Antalya, Turkey, May 10-14*, (2014).
5. A. Karaibrahimoğlu, Y. Asar, H. Basbozkurt and A. Genc, “Pattern extraction of breast cancer data using association rule mining” , *9th International Statistics Day Symposium – ISDS2014, Selcuk University, Antalya, Turkey, May 10-14*, (2014).
4. H. Başbozkurt , A. Başbozkurt, A. Karaibrahimoğlu, Y. Asar and A. Genc, “Comparison of soil’s physical properties with spatial regression methods” , *9th International Statistics Day Symposium – ISDS2014, Selcuk University, Antalya, Turkey, May 10-14*, (2014).
3. Y. Asar, A. Karaibrahimoğlu and A. Genç, “A Comparison of the recent ridge parameters in modeling gdp of Turkey” , *10th International Conference of Applied Statistics Statistical Society of Slovenia, Bled, Slovenia, September 22-25*, (2013).
2. H. Basbozkurt, A. Basbozkurt, A. Karaibrahimoğlu, Y. Asar, and A. Genc, “Spatial analysis of causes of death” , *8th International Statistics Congress Turkish Statistical Society, Antalya, Turkey, October 27-30*, (2013).
1. Y. Asar, H. Basbozkurt, S. Akogul and A. Genc, “Statistical modelling of seismicity of Van region” , *8th International Symposium of Statistics Anadolu University, Eskisehir, Turkey, October 11-13*, (2012).

TEACHING

@ Necmettin Erbakan University, Dept. Mathematics and Computer Sciences

- Spring 2023-2024: **Statistics**
- Spring 2023-2024: **Mathematics II**
- Spring 2023-2024: **Special Topics in Regression Analysis**

@ Necmettin Erbakan University, Dept. Mathematics and Computer Sciences

- Fall 2023-2024: **Probability**
- Fall 2023-2024: **Mathematics I**
- Fall 2023-2024: **Computational Methods in Numerical Analysis Using R**

@ Necmettin Erbakan University, Dept. Mathematics and Computer Sciences

- Spring 2022-2023: **Statistics**
- Spring 2022-2023: **Mathematics II**
- Spring 2022-2023: **Data Analysis with R**

@ Necmettin Erbakan University, Dept. Mathematics and Computer Sciences

- Fall 2022-2023: **Probability**
- Fall 2022-2023: **Mathematics I**
- Fall 2022-2023: **Computational Methods in Numerical Analysis Using R**

@ Necmettin Erbakan University, Dept. Mathematics and Computer Sciences

- Fall 2020-2021: **Probability**
- Fall 2020-2021: **Numerical Analysis I**
- Fall 2020-2021: **Computational Methods in Numerical Analysis Using R**

@ Necmettin Erbakan University, Dept. Mathematics and Computer Sciences

- Spring 2019-2020: **Statistics**
- Spring 2019-2020: **Numerical Analysis II**
- Spring 2019-2020: **Data Analysis with R**

@ Necmettin Erbakan University, Dept. Mechatronics Engineering

- Fall 2019-2020: **Numerical Analysis**

@ Necmettin Erbakan University, Dept. City and Regional Planning

- Fall 2019-2020: **General Mathematics**

@ Necmettin Erbakan University, Dept. Civil Aviation

- Fall 2019-2020: **Basic Mathematics I**

@ Necmettin Erbakan University, Maths.Comp.Sci. Dept.

- Fall 2019-2020: **Probability**

@ Necmettin Erbakan University, Maths.Comp.Sci. Dept.

- Spring 2017-2018: **Probability and Statistics**

@ Necmettin Erbakan University, Dept. Civil Aviation

- Spring 2017-2018: **Basic Mathematics II**

@ Necmettin Erbakan University, Dept. Civil Aviation

- Fall 2017-2018: **Basic Mathematics I**

@ Necmettin Erbakan University, Dept. Mechatronics Engineering

- Fall 2017-2018: **General Mathematics I**

@ Necmettin Erbakan University, Maths.Comp.Sci. Dept.

- Spring 2016-2017: **Probability and Statistics**

@ Necmettin Erbakan University, Civil Aviation Dept.

- Spring 2016-2017: **Basic Mathematics II**
- Fall 2016-2017: **Basic Mathematics I**
- Fall 2016-2017: **Statistics**

@ Necmettin Erbakan University, Maths.Comp.Sci. Dept.

- Spring 2016-2017: **Probability and Statistics**