

## Prof. MERAL EBEGİL

### Personal Information

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### Education Information

Doctorate, Gazi University, Fen Fakültesi, İstatistik Bölümü, Turkey 1999 - 2007

Postgraduate, Gazi University, Fen Fakültesi, İstatistik Bölümü, Turkey 1995 - 1999

Undergraduate, Gazi University, Fen Fakültesi, İstatistik Bölümü, Turkey 1990 - 1994

### Research Areas

Statistics, Statistical Analysis and Applications

### Academic Titles / Tasks

Professor, Gazi University, Fen Fakültesi, İstatistik, 2019 - Continues

Associate Professor, Gazi University, Fen Fakültesi, İstatistik Bölümü, 2014 - 2019

Assistant Professor, Gazi University, Fen Fakültesi, İstatistik Bölümü, 2009 - 2014

Research Assistant, Gazi University, Fen Fakültesi, İstatistik Bölümü, 1994 - 2009

### Academic and Administrative Experience

Rektörlük Stratejik Plan Komisyonu Üyesi, Gazi University, Fen Fakültesi, İstatistik, 2020 - Continues

Bölüm Kalite Komisyonu Üyesi, Gazi University, Fen Fakültesi, İstatistik, 2019 - Continues

Gazi University, Fen Fakültesi, İstatistik Bölümü, 2016 - Continues

Gazi University, Fen Fakültesi, İstatistik Bölümü, 2014 - Continues

Fakülte Kurulu Üyesi, Gazi University, Fen Fakültesi, İstatistik, 2016 - 2019

### Advising Theses

EBEGİL M., Medyan sıralı küme örnekleme kullanılarak shrinkage tahmini, Postgraduate, K.GÜRSOY(Student), 2019

EBEGİL M., Türkiye sağlık araştırması verilerinin yapay sinir ağları ve çok kategorili lojistik regresyon yöntemiyle incelenmesi, Postgraduate, Ö.YAMANTAŞ(Student), 2019

EBEGİL M., Data Mining Cart Algorithm Implementation On Pensioners From Social Security Institution With Fake Divorce In Turkey, N.Yaşasinoğlu(Student), 2019

EBEGİL M., Türkiye'de anlaşmalı boşanma ile sosyal güvenlik kurumundan aylık alanlar üzerine veri madenciliği cart algoritması uygulaması, Postgraduate, N.YAŞASINOĞLU(Student), 2019

EBEGİL M., Bayesci yaklaşım ve Bühlmann-Straub kredibilite modellerinin Monte Carlo simülasyonu ile karşılaştırılması, Postgraduate, F.ELİF(Student), 2019

EBEGİL M., The efficiency investigation of Turkish manufacturing industry by multi-period two-stage data envelopment analysis and Malmquist index, Postgraduate, B.APAYDIN(Student), 2017

- EBEGİL M., The Examination Of Seismicity Trend In Turkey In Respects Of Occurring Earthquake Numbers And Mean Earthquake Magnitude By Markov Chain, Postgraduate, U.YALÇIN(Student), 2017
- EBEGİL M., Hachemeister Credibility Models And An Application, Postgraduate, E.BİÇER(Student), 2015
- EBEGİL M., Studying credibility factor in classic credibility models, Postgraduate, A.ERDAL(Student), 2013
- EBEGİL M., A study on a class of shrinkage estimators, Postgraduate, Ş.ÖZDEMİR(Student), 2012

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **Some Shrinkage estimators based on median ranked set sampling**  
EBEGİL M., ÖZDEMİR Y. A. , GÖKPINAR F.  
JOURNAL OF APPLIED STATISTICS, 2021 (Journal Indexed in SCI)
- II. **A revisit to testing the equality of means for several lognormal distributions**  
Cakmak M., Gökpınar E., Gökpınar F., Ebeğil M.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.90, no.6, pp.961-1000, 2020 (Journal Indexed in SCI)
- III. **A New Test for the Homogeneity of Inverse Gaussian Scale Parameters Based on Computational Approach Test**  
Gul H. H. , GÖKPINAR E., EBEGİL M., ÖZDEMİR Y. A. , GÖKPINAR F.  
SAINS MALAYSIANA, vol.48, no.8, pp.1777-1785, 2019 (Journal Indexed in SCI)
- IV. **A Test Statistic for Two Normal Means with Median Ranked Set Sampling**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
IRANIAN JOURNAL OF SCIENCE AND TECHNOLOGY TRANSACTION A-SCIENCE, vol.43, pp.1109-1126, 2019 (Journal Indexed in SCI)
- V. **A test statistic based on ranked set sampling for two normal means**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.46, no.10, pp.8077-8085, 2017 (Journal Indexed in SCI)
- VI. **Two different shrinkage estimator classes for the shape parameter of classical Pareto distribution**  
EBEGİL M., ÖZDEMİR Ş.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.45, no.4, pp.1231-1244, 2016 (Journal Indexed in SCI)
- VII. **A test statistic to choose between Liu-type and least-squares estimator based on mean square error criteria**  
EBEGİL M., GÖKPINAR F.  
JOURNAL OF APPLIED STATISTICS, vol.39, no.10, pp.2081-2096, 2012 (Journal Indexed in SCI)
- VIII. **Effect of exogenous epidermal growth factor (EGF) on nonenzymatic antioxidant capacities and MPO activity of wound tissue**  
Peker E. G. G. , COŞKUN CEVHER Ş., EBEGİL M., Acarturk F.  
MEDICINAL CHEMISTRY RESEARCH, vol.19, no.6, pp.533-540, 2010 (Journal Indexed in SCI)
- IX. **Ascorbic acid prevents lipid peroxidation by sparing nitric oxide in fibroblast cells**  
BALABANLI K. B. , Bircan F. S. , Pala E., Alem N., EBEGİL M., COŞKUN CEVHER Ş.  
Asian Journal of Chemistry, vol.21, no.2, pp.1372-1376, 2009 (Journal Indexed in SCI)

## Articles Published in Other Journals

- I. **Optimization Of Multi Responses Using Data Envelopment Analysis: The Application in Food Industry**  
EBEGİL M., BAYRAK H., ÖZKAYA B., Kilic D., Avsar B. A.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.3, pp.1083-1090, 2019 (Journal Indexed in ESCI)
- II. **Evaluation of Serum Malondialdehyde And Nitric Oxide Levels in Patients with Cystic Echinococcosis**

Gulec Peker E. G. , EBEGİL M., BALABANLI K. B. , COŞKUN CEVHER Ş.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.31, no.3, pp.700-705, 2018 (Journal Indexed in ESCI)

- III. **A Review on Shrinkage Parameters in Ridge Regression**  
GÖKPINAR E., EBEGİL M., GÖKPINAR F.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.30, no.4, pp.565-582, 2017 (Journal Indexed in ESCI)
- IV. **A Study on Tests of Hypothesis Based on Ridge Estimator**  
GÖKPINAR E., EBEGİL M.  
GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.29, no.4, pp.769-781, 2016 (Journal Indexed in ESCI)
- V. **Klasik Pareto Dağılımının Şekil Parametresi İçin Shrinkage Tahmin Ediciler**  
EBEGİL M., GÖKPINAR F.  
Süleyman Demirel Üniversitesi, Fen Bilimleri Enstitüsü Dergisi, vol.16, no.1, pp.116-121, 2012 (Refereed Journals of Other Institutions)
- VI. **Pareto Dağılımı Altında Bühlmann Straub Kredibilite ve Karma Etki Modelinde Hasar Tutarı Modellemesi**  
EBEGİL M., GÖKPINAR F.  
Süleyman Demirel Üniversitesi, Fen Bilimleri Enstitüsü Dergisi, vol.16, no.2, pp.191-203, 2012 (Refereed Journals of Other Institutions)
- VII. **Modelling of Premium Estimations in the Bühlmann Straub Credibility and Mixed Effects Models under Pareto Distribution**  
EBEGİL M., GÖKPINAR F.  
SDU Journal Of Natural And Applied Sciences, no.16, pp.191-203, 2012 (Refereed Journals of Other Institutions)
- VIII. **An Examination of Some Shrinkage Estimators For Different Sample Sizes And Correlation Structures in the Linear Regresion**  
EBEGİL M., ÖZDEMİR Ş.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.57, no.2, pp.1-24, 2008 (Refereed Journals of Other Institutions)
- IX. **Bühlmann Kredibilite Modelinde Rassal Etki Modelinin Kullanılması üzerine bir çalışma**  
EBEGİL M., GÖKPINAR F.  
Sakarya Üniversitesi Fen Edebiyat Fakültesi Fen-Edebiyat dergisi, no.9, pp.97-82, 2007 (Other Refereed National Journals)
- X. **A study to examine buhlmann straub credibility model in generalized linear models**  
EBEGİL M., ÖZDEMİR Ş.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.55, no.2, pp.9-16, 2006 (Refereed Journals of Other Institutions)
- XI. **A Simulation Study on the Shirinkage Estimators**  
EBEGİL M., GÖKPINAR F.  
Hacettepe Journal of Mathematics and Statistics, no.35, pp.213-226, 2006 (Refereed Journals of Other Institutions)

## **Books & Book Chapters**

### **I. Olasılık ve İstatistik**

GÖKPINAR F., ÖZDEMİR Y. A. , EBEGİL M.

in: Öğretmenlik Alan Bilgisi, Doç. Dr. Şenol DOST, Editor, aby alan bilgisi yayınları, Ankara, pp.621-721, 2014

## **Refereed Congress / Symposium Publications in Proceedings**

### **I. Türkiyede Muvazaalı Boşananların Veri Madenciliği Tekniklerinden Cart Algoritması ile Sınıflandırılması**

Yaşasinoğlu N., EBEGİL M., Yaşasinoğlu H.

1. Uluslararası 23 Nisan Multidisipliner Çalışmalar Kongresi, Ankara, Turkey, 20 - 23 April 2019, pp.232-233
- II. **Sıralı Küme Örneklemesi ile Shrinkage Tahmini**  
Gürsoy K., ÖZDEMİR Y. A. , EBEGİL M.  
1. Uluslararası 23 Nisan Multidisipliner Çalışmalar Kongresi, Ankara, Turkey, 20 - 23 April 2019, pp.317-322
- III. **SIRALI KÜME ÖRNEKLEMESİ İLE SHRINKAGE TAHMİNİ**  
GÜRSOY K., EBEGİL M.  
1. ULUSLARARASI23 NİSAN MULTİDİSİPLİNER ÇALIŞMALAR KONGRESİ, Ankara, Turkey, 20 - 23 April 2019
- IV. **Liu tahmin edicisine dayalı regresyon katsayılarının hipotez testi**  
GÖKPINAR E., EBEGİL M.  
International Eurasian Conference on Science, Engineering and Technology, 22 - 23 October 2018
- V. **The Determination of Optimal Production of Corn Bread Using Response Surface Method and Data Envelopment Analysis**  
APAYDIN AVŞAR B., BAYRAK H., EBEGİL M., Kılıç D.  
10th International Statistics Congress (ISC-2017), 6 - 08 December 2017, pp.164
- VI. **The Efficiency Investigation of Turkish Manufacturing Industry by Multi-Period Two-Stage Data Envelopment Analysis**  
Avşar B., EBEGİL M., ÖRKCÜ H. H.  
International Conference on Mathematics and Mathematics Education(ICMME-2017), 11 - 13 May 2017
- VII. **Performance of Different Shrinkage Parameters in Ridge Regression According To Mean Square Errors Criteria**  
ÖZTÜRK B., EBEGİL M., GÖKPINAR F.  
3rd INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS (IRSYSC-2017), Konya, Turkey, 24 - 26 May 2017, pp.130
- VIII. **A Parametric Bootstrap Approach for the Equality of Two Regression Models under Heterogeneity of Error Variances**  
YAZICI M. E. , GÖKPINAR E., GÖKPINAR F., EBEGİL M., ÖZDEMİR Y. A.  
3rd INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS (IRSYSC-2017), Konya, Turkey, 24 - 26 May 2017, pp.167
- IX. **Efficiency Analysis of Manufacturing Firms In Turkey: The Application of Malmquist Index**  
APAYDIN AVŞAR B., EBEGİL M., ÖRKCÜ H. H.  
3rd INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS (IRSYSC-2017), Konya, Turkey, 24 - 26 May 2017, pp.129
- X. **Comparison of the Tests For The Equality of Two Population Means Based on Simple Random Sampling and Ranked Set Sampling with Auxiliary Variable**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), Şanlıurfa, Turkey, 11 - 13 May 2017, pp.436-437
- XI. **A Test Statistic For The Population Mean Based On Median Ranked Set Sampling**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), Şanlıurfa, Turkey, 11 - 13 May 2017, pp.406-407
- XII. **The Efficiency Investigation of Turkish Manufacturing Industry by Multi-Period Two-Stage Data Envelopment Analysis**  
APAYDIN AVŞAR B., EBEGİL M., ÖRKCÜ H. H.  
International Conference on Mathematics and Mathematics Education (ICMME-2017), Şanlıurfa, Turkey, 11 - 13 May 2017, pp.624-625
- XIII. **A Comparative Study of Tests for Significance of Ridge Regression Coefficients**  
GÖKPINAR E., EBEGİL M.  
International Conference on Mathematics and Mathematics Education(ICMME-2017), Şanlıurfa, Turkey, 11 - 13 May 2017, pp.378-379
- XIV. **Heterojenlik Varsayımı Altında İki Yığın Ortalaması Farkı İçin Sıralı Küme Örneklemesine Dayalı Bir**

## **Test İstatistiği**

ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.

17th International Symposium on Econometrics, Operations Research and Statistics, Sivas, Turkey, 2 - 04 June 2016

- XV. **Farklı Yanlılık Parametreleri Kullanılarak Elde Edilen Ridge Tahmin Edicilerinin Medyan Sıralı Küme Örneklemesi Altındaki Performansları**  
EBEGİL M., ÖZDEMİR Y. A. , GÖKPINAR F.  
17. International Symposium On Econometrics, Operations Research And Statistics, Sivas, Turkey, 2 - 04 June 2016
- XVI. **M Ebeğil Y A Özdemir F Gökpinar Farklı Yanlılık Parametreleri Kullanılarak Elde Edilen Ridge Tahmin Edicilerinin Medyan Sıralı Küme Örneklemesi Altındaki Performansları**  
EBEGİL M., ÖZDEMİR Y. A. , GÖKPINAR F.  
17th International Symposium on Econometrics, Operations Research and Statistics, Sivas, Turkey, 02 June 2016
- XVII. **Heterojenlik Varsayımı Altında İki Yığın Ortalama Farkı İçin Sıralı Küme Örneklemesine Dayalı Bir Test İstatistiği**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
XVII. Uluslararası Ekonometri Yöneylem Araştırması ve İstatistik Sempozyumu 2016 (EYİ 2016), Cumhuriyet Üniversitesi Ekonometri Bölümü, Sivas., 2 - 04 June 2016
- XVIII. **Heterojenlik Varsayımı Altında İki Yığın Ortalaması Farkı için Sıralı Küme Örneklemesine Dayalı bir Test İstatistiği**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
17. International Symposium On Econometrics, Operations Research And Statistics, Sivas, Turkey, 2 - 04 June 2016
- XIX. **Farklı Yanlılık Parametreleri Kullanılarak Elde Edilen Ridge Tahmin Edicilerinin Medyan Sıralı Küme Örneklemesi Altındaki Performansları**  
EBEGİL M., ÖZDEMİR Y. A. , GÖKPINAR F.  
XVII. Uluslararası Ekonometri Yöneylem Araştırması ve İstatistik Sempozyumu 2016 (EYİ 2016), Cumhuriyet Üniversitesi Ekonometri Bölümü, Sivas., 2 - 04 June 2016
- XX. **The Performance of the Test Statistic Based on Ranked Set Sampling for Two Population Mean under Normality and Nonnormality**  
EBEGİL M., ÖZDEMİR Y. A. , GÖKPINAR F.  
International Conference on Mathematics and Mathematics Education, Erzurum, Turkey, 12 - 14 May 2016
- XXI. **Comparison of the Efficiencies of Different Shrinkage Parameters in Ridge Regression**  
EBEGİL M., ÖZDEMİR Y. A. , GÖKPINAR F.  
International Conference on Mathematics and Mathematics Education, Erzurum, Turkey, 12 - 14 May 2016
- XXII. **Comparision of the Efficiencies of Different Shrinkage Parameters in Ridge Regression**  
EBEGİL M., GÖKPINAR F., ÖZDEMİR Y. A.  
International Conference on Mathematics and Mathematics Education,(ICMME-2016), Firat University, Elazığ, 12- 14 May 2016., 12 - 14 May 2016
- XXIII. **The Performance of the Test Statistics Based on Ranked Set Sampling for Two Population Mean Under Normality and Nonnormality**  
EBEGİL M., ÖZDEMİR Y. A. , GÖKPINAR F.  
International Conference on Mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016
- XXIV. **Comparision of the Efficiencies of Different Shrinkage Parameters in Ridge Regresion**  
EBEGİL M., GÖKPINAR F., ÖZDEMİR Y. A.  
International Conference on Mathematics and Mathematics Education, Elazığ, Turkey, 12 - 14 May 2016
- XXV. **Medyan Sıralı Küme Örneklemesi Altında Ridge Regresyon Tahmin Edicisinin Farklı Shrinkage Parametreleri İçin İncelenmes**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
Uluslararası 9. İstatistik Kongresi, 28 October - 01 November 2015
- XXVI. **Heterojenlik Altında Çok Değişkenli İki Grup Ortalama Vektörleri Farkı İçin Yeni Test**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
Uluslararası 9. İstatistik Kongresi, Ankara, Turkey, 28 October - 01 November 2015

- XXVII. **Hesaplamalı Yaklaşım Metoduyla İinverse Gaussian Dağılımının Ölçek Parametrelerinin Homojenliği İçin Bir Test**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
Uluslararası 9. İstatistik Kongresi, Ankara, Turkey, 28 October - 01 November 2015
- XXVIII. **Homojen Olmayan Varyans Varsayımı Altında Varyans Analizi İçin Yeni Bir Hesaplamalı Yaklaşım Testi**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
Uluslararası 9. İstatistik Kongresi, Ankara, Turkey, 28 October - 01 November 2015
- XXIX. **Medyan Sıralı Küme Örneklemesi Altında Ridge Regresyon Tahmin Edicisinin Farklı Shrinkage Parametreleri İçin İncelenmesi**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
Uluslararası 9. İstatistik Kongresi, Ankara, Turkey, 28 October - 01 November 2015
- XXX. **Median Ranked Set Sampling for Ridge Regression Estimator**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
XVIth INTERNATIONAL SYMPOSIUM ON ECONOMETRICS, OPERATIONS RESEARCH AND STATISTICS, VİYANA, Turkey, 7 - 12 May 2015
- XXXI. **Evaluation of Robustness of Crossover Designs under Subject Dropout**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
XVIth INTERNATIONAL SYMPOSIUM ON ECONOMETRICS, OPERATIONS RESEARCH AND STATISTICS, VİYANA, Turkey, 7 - 12 May 2015
- XXXII. **Weighted Jonckheere Test For Ordered Alternatives In Repeated Measures Of Randomized Blocks And A Comparison**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
15th International Symposium on Econometrics, Operations Research and Statistics, 27 - 31 May 2014
- XXXIII. **Permutation Approach to Tests of Ordered Alternatives in Incomplete Block Design**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
3rd International Eurasian Conference on Mathematical Sciences and Applications, VİYANA, Austria, 27 - 31 May 2014
- XXXIV. **Sıralı Küme Örneklemesinde İçerilme Olasılıkları Kullanılarak Horvitz Thompson Tahmin Edicisinin Elde Edilmesi**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
15th International Symposium on Econometrics, Operations Research and Statistics, 27 - 31 May 2014
- XXXV. **Nakagami Dağılımı İçin Uyum İyiliği Testlerinin I Tip Hata Oranları Ve Testin Gücü Bakımından Karşılaştırılması**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
15th International Symposium on Econometrics, Operations Research and Statistics, 27 - 31 May 2014
- XXXVI. **Comparison of Two Distribution Free Test for Longitudinal Data of Randomized Blocks with a Prior Knowledge of Alternative Hypothesis**  
ÖZDEMİR Y. A. , EBEGİL M., GÖKPINAR F.  
3rd International Eurasian Conference on Mathematical Sciences and Applications, VİYANA, Austria, 27 - 31 May 2014
- XXXVII. **Liu Tipi Tahmin Edici İçin Hata Kareler Ortalamasına Dayalı Bir Test İstatistiği**  
EBEGİL M., GÖKPINAR F.  
9th International Statistics Day Symposium, 20 - 24 May 2014
- XXXVIII. **Bootstrap Version For Ordered Alternatives in Randomized Complete Block Design and A Comparison**  
EBEGİL M., GÖKPINAR F.  
9th International Statistics Day Symposium, 20 - 24 May 2014
- XXXIX. **Farklı Dağılımlar Altında Bühlmann Straub Ve Karma Etki Modelinde Prim Tahminlerinin İncelenmesi**  
EBEGİL M., GÖKPINAR F.  
12. Uluslararası Ekonometri Yöneylem Araştırması ve İstatistik Sempozyumu, 15 - 17 May 2011

## Citations

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