



# EDA GİZEM KOÇYİĞİT

## RES. ASST. PHD

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Fakültesi İstatistik Bölümü Buca İzmir Türkiye

### International Researcher IDs

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Publons / Web Of Science ResearcherID: ABB-5531-2020

ScopusID: 57194087501

Yoksis Researcher ID: 232064



## Education

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Doctorate 2016 - 2021	Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik A.B.D., Turkey
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Postgraduate 2013 - 2016	Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik (YI) (Tezli), Turkey
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Undergraduate 2009 - 2013	Hacettepe University, Fen Fakültesi, İstatistik Bölümü, Turkey
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## Dissertations

Doctorate, New estimators in ranked set sampling in the presence of tie information, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik A.B.D., 2021

Postgraduate, Ratio and product type estimators of population mean in systematic sampling, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik A.B.D., 2016

## Academic Titles / Tasks

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Research Assistant PhD 2021 - Continues	Dokuz Eylül University, Fen Fakültesi, İstatistik Bölümü
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Research Assistant 2018 - 2021	Dokuz Eylül University, Fen Fakültesi, İstatistik Bölümü
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### Published journal articles indexed by SCI, SSCI, and AHCI

- Using past sample means in exponential ratio and regression type estimators under a simple random sampling**  
Koçyiğit E. G.  
SOFT COMPUTING, no.29, pp.1389-1406, 2025 (SCI-Expanded)
- Evaluation of Mid-buccal Gingival Recessions and Occlusal Interferences**  
Gürbüz S., Bakhishov H., Koçyiğit E. G., Işık A., Baloş Tuncer B., Özdemir B.  
JOURNAL OF ORAL REHABILITATION, vol.0, pp.1-12, 2023 (SCI-Expanded)
- Improved regression in ratio type estimators based on robust M-estimation**  
Rather K. U. I., Koçyiğit E. G., Onyango R., Kadılar C.  
PLOS ONE, no.-, pp.1-22, 2022 (SCI-Expanded)
- Ratio estimators for ranked set sampling in the presence of tie information**  
Koçyiğit E. G., Kadılar C.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.51, no.11, pp.6826-6839, 2022 (SCI-Expanded)
- Information theory approach to ranked set sampling and new sub-ratio estimators**  
Koçyiğit E. G., Kadılar C.  
COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, 2022 (SCI-Expanded)
- Effects of interactive power toothbrush with or without application assistance on the plaque, gingivitis, and gingival abrasion among dental students: a randomized controlled clinical trial**  
Gürbüz S., Turgut Çankaya Z., Cinal E., Koçyiğit E. G., Bodur A.  
CLINICAL ORAL INVESTIGATIONS, vol.00, pp.1-11, 2022 (SCI-Expanded)
- A new class of unbiased linear estimators in systematic sampling**  
Koçyiğit E. G., Çingir H.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.46, no.2, pp.315-323, 2017 (SCI-Expanded)

### Articles Published in Other Journals

- A New Class of Ratio Estimators under Different Sampling Techniques**  
Koçyiğit E. G., Jeelani M. I., Rather K. U. I.  
Franklin Open, vol.1, no.1, pp.1-28, 2025 (Peer-Reviewed Journal)
- Generalized Exponential Ratio Type Estimator for the Finite Population Mean Under Ranked Set Sampling**  
Rather K., Koçyiğit E. G.  
PAKISTAN JOURNAL OF STATISTICS AND OPERATION RESEARCH, vol.20, no.3, pp.409-417, 2024 (ESCI)
- Modified Exponential Ratio Estimator for Ranked Set Sampling in the Presence of Tie Information and Application on COVID-19 Real Data**  
Koçyiğit E. G., Kadılar C.  
Journal of Statistics and Management Systems, vol.3, no.27, pp.515-534, 2024 (ESCI)
- A Novel Sub-Type Mean Estimator for Ranked Set Sampling with Dual Auxiliary Variables**  
Koçyiğit E. G.  
Journal of New Theory, no.44, pp.79-86, 2023 (Peer-Reviewed Journal)
- The New Sub-Regression Type Estimator in Ranked Set Sampling**

Koçyiğit E. G., Rather K. I.

JOURNAL OF STATISTICAL THEORY AND PRACTICE, vol.0, pp.17-27, 2023 (ESCI)

6. **New Exponential Ratio Estimator in Ranked Set Sampling**

Khalid R., Koçyiğit E. G., Unal C., Jeelani M. I.

Pakistan Journal of Statistics and Operation Research, vol.18, no.No. 2, pp.403-409, 2022 (ESCI)

## Books

1. **Third Bilateral Workshop on Science between DEU and ANAS Abstract Book**

Koçyiğit E. G. (Editor)

Dokuz Eylül Yayınları, İzmir, 2025

2. **Cumhuriyet'in 100.Yılında Temel Bilimler**

Koçyiğit E. G. (Member Of Editors Board)

Dokuz Eylül Yayınları, İzmir, 2024

## Papers Published in Refereed Scientific Meetings

1. **A NOVEL CLASS OF REGRESSION-TYPE MEAN ESTIMATORS USING POISSON REGRESSION**

Koçyiğit E. G.

11. ULUSLARARASI ANKARA BİLİMSEL ARAŞTIRMALAR KONGRESİ, Ankara, Turkey, 10 - 12 January 2025, pp.1

2. **Assessing the Role of Pilot Study Data in Mean Estimations: Comparison of Integration Methods with Simulation**

Koçyiğit E. G.

8th International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2024), Adana, Turkey, 28 - 30 November 2024, pp.1

3. **Sıralı Küme Örneklemesinde Ortalama Tahminine Yeni Bir Yaklaşım: Alt-Tahmin Ediciler**

Koçyiğit E. G.

V. Uluslararası Uygulamalı İstatistik Kongresi, İstanbul, Turkey, 21 - 23 May 2024, no.587, pp.1-2

4. **Evaluation of The Effect of Interactive Power Toothbrush on Plaque, Gingival Bleeding and Gingival Abrasion: A Randomized Controlled Clinical Trial**

Gürbüz S., Turgut Çankaya Z., Koçyiğit E. G., Bodur A.

Türk Periodontoloji Derneği 50. Uluslararası Bilimsel Kongresi, İstanbul, Turkey, 5 - 06 November 2021, pp.147-151

5. **A New Class of Exponential Regression cum Ratio Estimator in Systematic Sampling and Application on Real Air Quality Data Set**

KOÇYIĞİT E. G., ÇINGİ H.

10th International Statistics Congress (ISC2017), Ankara, Turkey, 6 - 08 December 2017

6. **RATIO-PRODUCT TYPE ESTIMATOR IN SYSTEMATIC SAMPLING**

KOÇYIĞİT E. G., ÇINGİ H.

Xth International Statistics Days Conference – ISDC'2016 (IGS 2016), Giresun, Turkey, 7 - 09 October 2016

7. **A NEW CLASS OF UNBIASED LINEAR ESTIMATOR IN SYSTEMATIC SAMPLING**

KOÇYIĞİT E. G., ÇINGİ H.

SECOND INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, Ankara, Turkey, 3 - 11 May 2016

## Other Publications

1. **Herkes için bilim (ortaokul öğrencilerine yönelik)**

Alaca Yıldırım E., Baylan P., Candan K., Canlı K., Yıldırım Caynak E., Barut Celepci D., Deniz M., Dişibüyük N. B., Doğan A., Gürbüz S. K., et al.  
Other, pp.33-44, 2023

## Academic and Administrative Experience

2025 - Continues	<b>HRS4R Uygulama Komite Üyesi</b>	Dokuz Eylul University
2024 - Continues	<b>Internship Committee Member</b>	Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü
2024 - Continues	<b>Applied Education Committee</b>	Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü
2023 - Continues	<b>Department Coordinator of Distance Education</b>	Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü
2021 - Continues	<b>Bilgi İşlem Komisyonu</b>	Dokuz Eylul University, Fen Fakültesi
2019 - Continues	<b>Social media executive</b>	Dokuz Eylul University, Fen Fakültesi
2019 - Continues	<b>Social media executive</b>	Dokuz Eylul University, Fen Fakültesi, İstatistik Bölümü

## Courses

### Undergraduate

Bilgisayar Uygulamaları, Undergraduate, 2024 - 2025  
BİLGİSAYAR UYGULAMALARI, Undergraduate, 2021 - 2022

## Peer Reviews in Scientific Publications

SCIENTIFIC REPORTS, Journal Indexed in SCI-E, March 2025  
JOURNAL OF STATISTICAL THEORY AND PRACTICE, Journal Indexed in ESCI, March 2025  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Journal Indexed in SCI-E, November 2024  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Journal Indexed in SCI-E, November 2024  
INTERNATIONAL JOURNAL OF MACHINE LEARNING AND CYBERNETICS, Journal Indexed in SCI-E, August 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, June 2024  
GAZI UNIVERSITY JOURNAL OF SCIENCE, Journal Indexed in ESCI, June 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, June 2024  
JOURNAL OF INFRASTRUCTURE POLICY AND DEVELOPMENT, Journal Indexed in ESCI, June 2024  
Hitit Sosyal Bilimler Dergisi (Online), National Scientific Refreed Journal, May 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, April 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, April 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, April 2024  
SCIENTIFIC REPORTS, National Scientific Refreed Journal, April 2024  
JOURNAL OF STATISTICAL THEORY AND PRACTICE, Journal Indexed in ESCI, April 2024  
Nicel bilimler dergisi (Online), National Scientific Refreed Journal, January 2024  
HELIYON, National Scientific Refreed Journal, January 2024

HELIYON, Journal Indexed in SCI-E, January 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, January 2024  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, December 2023  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, December 2023  
HELIYON, Journal Indexed in SCI-E, December 2023  
JOURNAL OF STATISTICAL THEORY AND PRACTICE, Journal Indexed in ESCI, December 2023  
JOURNAL OF STATISTICAL THEORY AND PRACTICE, Journal Indexed in ESCI, November 2023  
JOURNAL OF KING SAUD UNIVERSITY - SCIENCE, Journal Indexed in SCI-E, November 2023  
JOURNAL OF KING SAUD UNIVERSITY - SCIENCE, Journal Indexed in SCI-E, October 2023  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, September 2023  
SCIENTIFIC REPORTS, Journal Indexed in SCI-E, September 2023  
JOURNAL OF THE INDIAN SOCIETY FOR PROBABILITY AND STATISTICS, Journal Indexed in ESCI, August 2023  
International Journal of Applied and Computational Mathematics, Other Indexed Journal, June 2023  
JOURNAL OF THE INDIAN SOCIETY FOR PROBABILITY AND STATISTICS, Journal Indexed in ESCI, May 2023  
PAKISTAN JOURNAL OF STATISTICS, Journal Indexed in ESCI, April 2023  
PAKISTAN JOURNAL OF STATISTICS AND OPERATION RESEARCH, Journal Indexed in ESCI, February 2023  
GAZI UNIVERSITY JOURNAL OF SCIENCE, Journal Indexed in ESCI, January 2023  
PAKISTAN JOURNAL OF STATISTICS AND OPERATION RESEARCH, Journal Indexed in ESCI, November 2022  
Karaelmas Fen ve Mühendislik Dergisi, National Scientific Refreed Journal, November 2022  
SCIENTIA IRANICA INTERNATIONAL JOURNAL OF SCIENCE & TECHNOLOGY, Journal Indexed in SCI-E, October 2022  
Thailand Statistician, Journal Indexed in ESCI, October 2022  
Journal of Aksaray University Faculty of Economics and Administrative Sciences, National Scientific Refreed Journal, October 2022  
SCIENTIA IRANICA INTERNATIONAL JOURNAL OF SCIENCE & TECHNOLOGY, Journal Indexed in SCI-E, September 2022  
SCIENTIA IRANICA INTERNATIONAL JOURNAL OF SCIENCE & TECHNOLOGY, Journal Indexed in SCI-E, August 2022  
SCIENTIA IRANICA INTERNATIONAL JOURNAL OF SCIENCE & TECHNOLOGY, Journal Indexed in SCI-E, May 2022  
PAKISTAN JOURNAL OF STATISTICS AND OPERATION RESEARCH, Journal Indexed in ESCI, May 2022  
ERCİYES ÜNİVERSİTESİ FEN BİLİMLERİ ENSTİTÜSÜ DERGİSİ, National Scientific Refreed Journal, April 2022  
PAKISTAN JOURNAL OF STATISTICS AND OPERATION RESEARCH, Journal Indexed in ESCI, April 2022  
PAKISTAN JOURNAL OF STATISTICS AND OPERATION RESEARCH, Journal Indexed in ESCI, March 2022  
GAZI UNIVERSITY JOURNAL OF SCIENCE, Journal Indexed in ESCI, March 2022  
GAZI UNIVERSITY JOURNAL OF SCIENCE, Journal Indexed in ESCI, February 2022  
KARAEKMAS FEN VE MÜHENDİSLİK DERGİSİ, National Scientific Refreed Journal, February 2022  
PAKISTAN JOURNAL OF STATISTICS AND OPERATION RESEARCH, Journal Indexed in ESCI, January 2022  
Journal of Aksaray University Faculty of Economics and Administrative Sciences, National Scientific Refreed Journal, October 2021  
JOURNAL OF AGRICULTURAL SCIENCES-TARIM BİLİMLERİ DERGİSİ, Journal Indexed in SCI-E, May 2021  
PAKISTAN JOURNAL OF STATISTICS AND OPERATION RESEARCH, Journal Indexed in ESCI, February 2021  
REVSTAT-STATISTICAL JOURNAL, Journal Indexed in SCI-E, November 2019

## Metrics

Publication: 24  
Citation (WoS): 17  
Citation (Scopus): 25  
H-Index (WoS): 3  
H-Index (Scopus): 4

## Congress and Symposium Activities

11. ULUSLARARASI ANKARA BİLİMSEL ARAŞTIRMALAR KONGRESİ, Session Moderator, Ankara, Turkey, 2025  
8th International Researchers, Statisticians and Young Statisticians Congress (IRSYSC 2024), Attendee, Adana, Turkey, 2024  
the 5th International Congress of Applied Statistics, Attendee, İstanbul, Turkey, 2024  
Dokuz Eylül Üniversitesi ile Azerbaycan Milli İlimler Akademisi Arasındaki İkinci Uluslararası Temel Bilim İkili Çalıştayı, Audience, İzmir, Turkey, 2022  
Turkish Society of Periodontology 50th International Scientific Online Congress, Attendee, İstanbul, Turkey, 2021  
10th International Statistics Congress (ISC2017), Attendee, Ankara, Turkey, 2017  
Xth International Statistics Days Conference – ISDC'2016 (IGS 2016), Attendee, Giresun, Turkey, 2016  
SECOND INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, Attendee, Ankara, Turkey, 2016

## Research Areas

Statistics, Statistical Analysis and Applications, Natural Sciences