

## Assoc. Prof. HATİCE TL KBRA AKDUR

### Personal Information

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### International Researcher IDs

ORCID: 0000-0003-2144-0518

Publons / Web Of Science ResearcherID: AAI-2720-2021

Yoksis Researcher ID: 111136

### Education Information

Doctorate, Gazi University, Fen Bilimleri Enstits, İstatistik (Dr), Turkey 2012 - 2017

Postgraduate, Washington State University, COLLEGE OF ARTS AND SCIENCES, Statistics, United States Of America 2009 - 2011

Undergraduate, Karadeniz Technical University, Fen-Edebiyat Fakltesi, İstatistik Ve Bilgisayar Bilimleri Blm, Turkey 2003 - 2007

### Research Areas

Statistics

### Academic Titles / Tasks

Assistant Professor, Gazi University, Fen Fakltesi, İstatistik, 2020 - Continues

Research Assistant, Gazi University, Fen Fakltesi, İstatistik, 2011 - 2020

Research Assistant, Washington State University, Faculty of Science, Statistics, 2010 - 2011

### Academic and Administrative Experience

Blm Kalite Komisyonu yesi, Gazi University, Fen Fakltesi, İstatistik, 2022 - Continues

Deputy Director of the Center, Gazi University, Rektrlk, Gazi niversitesi, 2020 - 2020

lme Deęerlendirme Birimi Sorumlusu, Gazi University, Rektrlk, Gazi niversitesi, 2019 - 2020

### Published journal articles indexed by SCI, SSCI, and AHCI

#### I. Analysis of correlated unit-Lindley data based on estimating equations

Silva D. V. V., AKDUR H. T. K., Paula G. A. A.

STATISTICAL METHODS AND APPLICATIONS, vol.32, no.5, pp.1477-1508, 2023 (SCI-Expanded)

#### II. Comparison of non-parametric tests of ordered alternatives for repeated measures in randomized blocks

AKDUR H. T. K.

COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.51, no.7, pp.4146-4158, 2022 (SCI-Expanded)

III. **GEE-based Bell model for longitudinal count outcomes**

AKDUR H. T. K.

COMMUNICATIONS IN STATISTICS-THEORY AND METHODS, vol.51, no.13, pp.4602-4616, 2022 (SCI-Expanded)

IV. **Unit-Lindley mixed-effect model for proportion data**

AKDUR H. T. K.

JOURNAL OF APPLIED STATISTICS, vol.48, no.13-15, pp.2389-2405, 2021 (SCI-Expanded)

V. **An adaptation of pseudo-score confidence interval method for linear mixed models**

AKDUR H. T. K., ÖZONUR D., BAYRAK H.

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.2, pp.902-913, 2020 (SCI-Expanded)

VI. **Comparisons of tests of distributional assumption in Poisson regression model**

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.46, no.8, pp.6197-6207, 2017 (SCI-Expanded)

## Articles Published in Other Journals

I. **Residual Diagnostic Methods for Bell-Type Count Models**

AKDUR H. T. K., Kilic D., BAYRAK H.

Statistics in Biosciences, vol.16, no.3, pp.634-667, 2024 (ESCI)

II. **Modeling the Number of Traffic Accidents with Regression and Decision Tree Methods: State Highways of Ankara Example**

GÜRSEL M. F., AKDUR H. T. K.

Gazi Üniversitesi Fen Fakültesi dergisi (Online), vol.5, no.2, pp.149-160, 2024 (Peer-Reviewed Journal)

III. **Investigation of Bell Regression Model as an Alternative to Poisson and Negative Binomial Regression Models: Determining the Factors Affecting Length of Staying Hospital with The Case of Turkey**

Kılıç D., AKDUR H. T. K., BAYRAK H.

Iğdır Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.13, no.2, pp.1256-1265, 2023 (Peer-Reviewed Journal)

IV. **Sample Size Estimation of Nonparametric Tests with Ordered Alternatives for Longitudinal Data in Randomized Complete Block Designs**

BAHÇECİTAPAR M., AKDUR H. T. K.

Gazi University Journal of Science Part A: Engineering and Innovation, vol.9, no.4, pp.367-377, 2022 (Peer-Reviewed Journal)

V. **Temel Bileşenler Analizi ve Yanıt Yüzey Yöntemi kullanılarak Gıda Sektöründe Çoklu Yanıtların Optimizasyonu.**

Özonur D., Kılıç D., Akdur H. T. K., Bayrak H.

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.12, no.2, pp.734-744, 2019 (Peer-Reviewed Journal)

VI. **Comparison of Rank-Based Tests for Ordered Alternative Hypotheses in Randomized Complete Block Designs**

AKDUR H. T. K., ÖZONUR D., Gul H. H., BAYRAK H.

GAZI UNIVERSITY JOURNAL OF SCIENCE, vol.32, no.2, pp.705-716, 2019 (ESCI)

VII. **Optimal Asymptotic tests for Nakagami Distribution**

ÖZONUR D., AKDUR H. T. K., BAYRAK H.

Süleyman Demirel University Journal of Natural and Applied Sciences, vol.22, pp.487-492, 2018 (Peer-Reviewed Journal)

VIII. **A Modified Jonckheere Test Statistic for Ordered Alternatives in Repeated Measures Design**

AKDUR H. T. K., GÖKPINAR F., BAYRAK H., GÖKPINAR E.

SDÜ Fen Bilimleri Enstitüsü Dergisi, vol.20, no.3, pp.391-398, 2016 (Peer-Reviewed Journal)

- IX. **A Comparison of Confidence Interval Methods of Fixed Effect in Nested Error Regression Model**  
AKDUR H. T. K., ÖZONUR D., BAYRAK H.  
Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, no.2, pp.167-175, 2016 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **MODELING OF NUMBER OF TRAFFIC ACCIDENT IN ANKARA WITH REGRESSION AND DECISION TREE METHODS**  
Sevimli M. B., Gürsel M. F., Kiran L., Şahin E., AKDUR H. T. K.  
IV. International Science and Innovation Congress 2023, Ankara-Online, Turkey, 27 July 2023
- II. **Working covariance selection methods for Negative Binomial Marginal Model**  
Akdur H. T. K.  
3. Uluslararası Uygulamalı İstatistik kongresi (UYIK-2022), 22 - 24 June 2022, pp.261
- III. **COMPARISON OF ZERO INFLATED REGRESSION MODELS FOR APPLICATION TO E-COMMERCE DATA**  
Kılıç D., Akdur H. T. K., Bayrak H.  
8 th International conference on advances in statistics (ICAS), Girne, Cyprus (Kkct), 16 - 18 May 2022, pp.1-2
- IV. **Bell Marginal Models for Longitudinal Count Outcomes**  
Akdur H. T. K.  
6th INTERNATIONAL E – CONFERENCE ON ADVANCES IN STATISTICS , Ankara, Turkey, 16 - 18 October 2020, pp.31
- V. **Unit-Lindley Mixed-Effect Model for Ratio Data**  
AKDUR H. T. K.  
11th International Statistics Congress, Muğla, Turkey, 4 - 08 October 2019
- VI. **Comparison of Page-type Tests in Repeated Measures Designs**  
AKDUR H. T. K.  
International Conference on Mathematics and Mathematics Education, Ordu, Turkey, 27 - 29 June 2018
- VII. **An application of Smooth Goodness of fit tests for Gamma Response Model**  
ÖZONUR D., AKDUR H. T. K., BAYRAK H.  
International conference on Mathematics and Mathematics Education (ICMME-2018), Ordu, Turkey, 27 - 29 June 2018, pp.759-760
- VIII. **Optimization of Multiple Responses using Principal Component Analysis and Response Surface Method for an Experimental Design**  
Kılıç D., ÖZONUR D., AKDUR H. T. K., BAYRAK H.  
4. International Researchers, Statisticians and Young Statisticians, İzmir, Turkey, 28 - 30 April 2018, vol.1
- IX. **A Comparison of Page and Jonckheere Tests for Repeated Measures in Randomized Block Designs**  
AKDUR H. T. K., ÖZONUR D., BAYRAK H.  
4. international researchers, statisticians and young statisticians congress, 28 - 30 April 2018
- X. **A Comparison of Goodness of Fit Tests of Rayleigh Distribution Against Nakagami Distribution**  
Özonur D., Akdur H. T. K., Bayrak H.  
10. ISC 2017 International Statistics Congress, Ankara, Turkey, 6 - 08 December 2017, pp.107
- XI. **Covariance Patterns for Linear Mixed Models**  
AKDUR H. T. K., ÖZONUR D., BAYRAK H.  
19. Ulusal ve 2. Uluslararası Biyoistatistik Kongresi, Antalya, Turkey, 25 - 28 September 2017
- XII. **Rank-Based Nonparametric Tests for Ordered Alternatives with Randomized Complete Block Design**  
AKDUR H. T. K., GÜL H. H., ÖZONUR D., BAYRAK H.  
IRSYSC 2017 – 3RD INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, 24 - 26 May 2017
- XIII. **RANK BASED NONPARAMETRIC TESTS FOR ORDERED ALTERNATIVES WITH RANDOMIZED COMPLETE BLOCK DESIGN**

AKDUR H. T. K., GÜL H. H., ÖZONUR D., BAYRAK H.

IRSYSC 2017, 24 - 26 May 2017

- XIV. **A New Confidence Interval Method for Linear Mixed Models**  
AKDUR H. T. K., ÖZONUR D., BAYRAK H.  
10th International Statistics Days Conference, Giresun, 7 - 09 October 2016
- XV. **Gamma Dağılımına Sahip Yanıt Değişkenli Model için Smooth Testler**  
ÖZONUR D., AKDUR H. T. K., BAYRAK H.  
EYİ 2016, 2 - 04 June 2016
- XVI. **GAMMA DAĞILIMINA SAHİP YANIT DEĞİŞKENLİ MODEL İÇİN SMOOTH TESTLER**  
ÖZONUR D., AKDUR H. T. K., BAYRAK H.  
17th International Symposium on Econometrics, 2 - 04 June 2016
- XVII. **Gamma Dağılımına Sahip Yanıt Değişkenli Model İçin Smooth Testler**  
ÖZONUR D., AKDUR H. T. K., BAYRAK H.  
17. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu, 2 - 04 June 2016
- XVIII. **Smooth Tests for Inverse Gaussian Response Model**  
ÖZONUR D., AKDUR H. T. K., BAYRAK H.  
Second International Researchers, Statisticians, and Young Statisticians Congress (2nd IRSYSC-2016), 4 - 08 May 2016
- XIX. **Confidence Interval Methods for Fixed Effect Parameter of Random Intercept Model**  
AKDUR H. T. K., ÖZONUR D., BAYRAK H.  
Second International Researchers-Statisticians and Young Statisticians Congress, 4 - 08 May 2016
- XX. **Smooth Tests for Inverse Gaussian Response Model**  
ÖZONUR D., AKDUR H. T. K., BAYRAK H.  
Researchers-Statisticians and Young Statisticians Congress, 2016, Ankara, Turkey, 6 - 07 May 2016
- XXI. **Confidence Interval Methods for fixed effect parameter of random intercept model**  
AKDUR H. T. K., BAYRAK H., ÖZONUR D.  
Researchers-Statisticians and Young Statisticians Congress, 2016, Ankara, Turkey, 4 - 06 May 2016
- XXII. **Confidence Interval Methods of Fixed Effects in Mixed Models A Comparison Study**  
AKDUR H. T. K., ÖZONUR D., BAYRAK H.  
Joint Statistical Meetings, 8 - 13 August 2015
- XXIII. **A Comparison Study on Distributional Assumption Tests for Poisson Regression Model**  
ÖZONUR D., AKDUR H. T. K., BAYRAK H.  
Joint Statistical Meetings, 8 - 13 August 2015
- XXIV. **Comparison of Goodness of Fit Tests for Poisson Regression Model**  
ÖZONUR D., AKDUR H. T. K., BAYRAK H.  
16th International Symposium on Econometrics, Operations Research and Statistics, 11 - 15 May 2015
- XXV. **A Comparison of Confidence Interval Methods for Fixed Effects in Linear Mixed Models**  
AKDUR H. T. K., ÖZONUR D., BAYRAK H.  
16th International Symposium on Econometrics, Operations Research and Statistics, 11 - 15 May 2015
- XXVI. **A Comparison of Confidence Interval Methods for Fixed Effects in Linear Mixed Models**  
AKDUR H. T. K., ÖZONUR D., BAYRAK H.  
16. Uluslararası Ekonometri, Yöneylem Araştırması ve İstatistik Sempozyumu, Edirne, Turkey, 7 - 12 May 2015
- XXVII. **A Comparison of Two Distribution Free Test for Longitudinal Data of Randomized Blocks with a Prior Knowledge of Alternative Hypothesis**  
AKDUR H. T. K., GÖKPINAR F., BAYRAK H., ÖZONUR D.  
3rd International Eurasian Conference on Mathematical Sciences and Applications, Vienna, Austria, 25 - 28 August 2014
- XXVIII. **Using Logistic Regression for analyzing epigenetic changes across some Tumor Suppressor Genes for Liver Cancer and Effects of Sample Pooling on the dataset**  
AKDUR H. T. K.  
8th International Statistics Day Symposium, 10 - 13 October 2012

## **Scientific Refereeing**

JOURNAL OF APPLIED STATISTICS, SCI Journal, March 2022

JOURNAL OF APPLIED STATISTICS, SCI Journal, July 2021

## **Metrics**

Publication: 43

Citation (WoS): 10

Citation (Scopus): 12

H-Index (WoS): 2

H-Index (Scopus): 2

## **Scholarships**

2219- Post Doc, University of Calgary, TUBITAK, 2018 - 2018

Doktora Sırası Araştırma, University of Calgary, TUBITAK, 2015 - 2015

YLSY- University of Charlotte, Dil okulu- Washington State University, Master of Science in Statistics, Ministry of Education, 2008 - 2011