

## Assoc. Prof. HATİCE ÖNCEL ÇEKİM

### Personal Information

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### International Researcher IDs

ORCID: 0000-0001-8538-6296

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### Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 2012 - 2017

Postgraduate, Gazi University, Fen-Edebiyat Fakültesi, İstatistik, Turkey 2009 - 2011

Undergraduate Double Major, Gazi University, Fen-Edebiyat Fakültesi, Matematik, Turkey 2006 - 2009

Undergraduate, Gazi University, Fen-Edebiyat Fakültesi, İstatistik, Turkey 2004 - 2008

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, ÖRNEKLEME YÖNTEMLERİNDE HARTLEY-ROSS TAHMİN EDİCİSİNE DAYALI YENİ TAHMİN EDİCİLER, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, İstatistik (Dr), 2017

### Research Areas

Statistics, Statistical Analysis and Applications, Natural Sciences

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

- I. **Evaluation of different estimator approaches based on COVID-19 data and a simulation study**  
Lone S. A., Unal C., ÖNCEL ÇEKİM H.  
ALEXANDRIA ENGINEERING JOURNAL, pp.174-183, 2024 (SCI-Expanded)
- II. **Earthquake magnitude prediction in Turkey: a comparative study of deep learning methods, ARIMA and singular spectrum analysis**  
ÖNCEL ÇEKİM H., KARAKAVAK H. N., ÖZEL KADILAR G., Tekin S.  
Environmental Earth Sciences, vol.82, no.16, 2023 (SCI-Expanded)
- III. **Modified unbiased estimators for population variance: An application for COVID-19 deaths in Russia**  
ÖNCEL ÇEKİM H.  
CONCURRENCY AND COMPUTATION-PRACTICE & EXPERIENCE, vol.34, no.22, 2022 (SCI-Expanded)

- IV. **An advanced approach for leaf flammability index estimation**  
Güney C. O., Sari A., ÖNCEL ÇEKİM H., KÜÇÜKSİLLE E. U., ŞENTÜRK Ö., Gulsoy S., Ozkan K.  
INTERNATIONAL JOURNAL OF WILDLAND FIRE, vol.31, pp.277-290, 2022 (SCI-Expanded)
- V. **Prediction of the earthquake magnitude by time series methods along the East Anatolian Fault, Turkey**  
ÖNCEL ÇEKİM H., Tekin S., ÖZEL KADILAR G.  
EARTH SCIENCE INFORMATICS, vol.14, no.3, pp.1339-1348, 2021 (SCI-Expanded)
- VI. **Determination of water quality assessment in wells of the Goksu Plains using multivariate statistical techniques**  
GÜNER E. D., ÖNCEL ÇEKİM H., SEÇKİN G.  
ENVIRONMENTAL FORENSICS, vol.22, no.1-2, pp.172-188, 2021 (SCI-Expanded)
- VII. **A novel approach for predicting burned forest area**  
ÖNCEL ÇEKİM H., Güney C. O., ŞENTÜRK Ö., ÖZEL KADILAR G., Ozkan K.  
NATURAL HAZARDS, vol.105, no.2, pp.2187-2201, 2021 (SCI-Expanded)
- VIII. **Forecasting PM10 concentrations using time series models: a case of the most polluted cities in Turkey**  
ÖNCEL ÇEKİM H.  
ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH, vol.27, no.20, pp.25612-25624, 2020 (SCI-Expanded)
- IX. **In-type estimators for the population variance in stratified random sampling**  
ÖNCEL ÇEKİM H., KADILAR C.  
COMMUNICATIONS IN STATISTICS-SIMULATION AND COMPUTATION, vol.49, no.7, pp.1665-1677, 2020 (SCI-Expanded)
- X. **The family of the bivariate integer-valued autoregressive process (BINAR(1)) with Poisson-Lindley (PL) innovations**  
Khan N. M., ÖNCEL ÇEKİM H., Ozel G.  
JOURNAL OF STATISTICAL COMPUTATION AND SIMULATION, vol.90, no.4, pp.624-637, 2020 (SCI-Expanded)
- XI. **Some estimator types for population mean using linear transformation with the help of the minimum and maximum values of the auxiliary variable**  
ÖNCEL ÇEKİM H., ÇINGİ H.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.46, no.4, pp.685-694, 2017 (SCI-Expanded)
- XII. **Hartley-Ross type unbiased estimators using the stratified random sampling**  
ÖNCEL ÇEKİM H., KADILAR C.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.46, no.2, pp.293-302, 2017 (SCI-Expanded)

### Articles Published in Other Journals

- I. **GRACE Uyduyu Zaman Serisinin İstatiksel Yaklaşımlarla Kestirimi**  
OKAY AHİ G., ÖNCEL ÇEKİM H.  
Harita Dergisi, no.162, pp.25-35, 2019 (Peer-Reviewed Journal)
- II. **New families of unbiased estimators in stratified random sampling**  
ÖNCEL ÇEKİM H., KADILAR C.  
JOURNAL OF STATISTICS & MANAGEMENT SYSTEMS, vol.21, no.8, pp.1481-1499, 2018 (ESCI)
- III. **Examination of industry production index in Turkey with time series method**  
ÖNCEL ÇEKİM H.  
Balıkesir Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.20, no.1, pp.547-554, 2018 (Peer-Reviewed Journal)
- IV. **GENERALIZED FAMILY OF ESTIMATORS VIA TWO AUXILIARY VARIABLES FOR POPULATION VARIANCE**  
ÖNCEL ÇEKİM H., KADILAR C.  
JOURNAL OF RELIABILITY AND STATISTICAL STUDIES, vol.11, no.1, pp.67-81, 2018 (ESCI)
- V. **NEW UNBIASED ESTIMATORS WITH THE HELP OF HARTLEY ROSS TYPE ESTIMATORS**

ÖNCEL ÇEKİM H., KADILAR C.

Pakistan Journal Of Statistics, vol.32, no.4, pp.247-260, 2016 (Scopus)

VI. **Markoviyen Optimal Durdurma Probleminin İyileştirilmesi ve İMKB' de Bir Uygulama**

ÖNCEL ÇEKİM H., Çelebioğlu S.

Finans Politik & Ekonomik Yorumlar, vol.51, pp.55-72, 2014 (Peer-Reviewed Journal)

VII. **Karar ağacı ile Cox karma modeli ve lastik verileri üzerine bir uygulama**

ÖNCEL ÇEKİM H., KARASOY D.

İSTATİSTİKÇİLER DERGİSİ:İSTATİSTİK VE AKTÜERYA, vol.6, pp.41-50, 2013 (Peer-Reviewed Journal)

## Books & Book Chapters

I. **SPSS ve R Uygulamalı Zaman Serileri Analizine Giriş**

KADILAR C., ÖNCEL ÇEKİM H.

Seçkin Yayınevi, 2020

## Refereed Congress / Symposium Publications in Proceedings

I. **An Efficient Sampling Technique for Seismic Assessment of Aegean Graben System, Turkey**

ÜNAL AKDENİZ C., ÖNCEL ÇEKİM H., ÖZEL KADILAR G.

6th International Researchers, Statisticians and Young Statisticians Congress (IRSYSC2022), Antalya, Turkey, 3 - 06 November 2022

II. **PM10 and SO2 predictions for the most polluted station in Ankara**

ÖNCEL ÇEKİM H.

1. Uluslararası Uygulamalı İstatistik Kongresi, 1 - 04 October 2020

III. **Ln Type Estimators under Stratified Random Sampling**

ÖZEL KADILAR G., ÖNCEL ÇEKİM H., KADILAR C.

International Conference on Applied Mathematics in Engineering, Balıkesir, Turkey, 27 - 29 June 2018

IV. **LN TYPE ESTIMATOR ON ESTIMATING THE FINITE POPULATION VARIANCE IN THE SIMPLE RANDOM SAMPLING**

ÖNCEL ÇEKİM H., KADILAR C.

3rd INTERNATIONAL CONFERENCE ON COMPUTATIONAL MATHEMATICS AND ENGINEERING SCIENCES, Girne, Cyprus (Kkctc), 4 - 06 May 2018

V. **Generalized Family of Estimators with the help of Two Auxiliary Variables for Population Variance in Simple Random Sampling**

ÖNCEL ÇEKİM H., KADILAR C.

14th Applied Statistics 2017, Ribno, Slovenia, 24 - 27 September 2017, pp.35

VI. **Efficient Class of Estimators for Population Variance Using Two Auxiliary Variables**

KADILAR C., ÖNCEL ÇEKİM H.

IRSYSC 2017, Konya, Turkey, 24 - 26 May 2017

VII. **Hartley-Ross Type Variance Estimators in Simple Random Sampling**

KADILAR C., ÖNCEL ÇEKİM H.

International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 19 - 25 September 2016, vol.1863

VIII. **Forecasting Industry Production Index in Turkey**

ÖNCEL ÇEKİM H., KADILAR C.

ISBIS 2016, BARCELONA, Spain, 8 - 10 June 2016

IX. **Hartley Ross Type Unbiased Estimators Using Stratified Random Sampling**

ÖNCEL ÇEKİM H., KADILAR C.

2ND INTERNATIONAL RESEARCHERS, STATISTICIANS AND YOUNG STATISTICIANS CONGRESS, Ankara, Turkey, 4 -

08 May 2016

- X. **Hartley-Ross Type Estimators in Simple Random Sampling**  
KADILAR C., Cekim H. O.  
International Conference on Numerical Analysis and Applied Mathematics (ICNAAM), Rhodes, Greece, 22 - 28 September 2014, vol.1648
- XI. **Efficient estimators of population mean under new forms of transformation of auxiliary variable**  
ÖNCEL ÇEKİM H., ÇINGİ H.  
ISDS' 2014, Antalya, Turkey, 10 - 14 May 2014
- XII. **Characterizing Forest Fire Activity in Turkey by Compound Poisson and Time Series Models**  
ÖNCEL ÇEKİM H., KADILAR C., ÖZEL KADILAR G.  
ICNAAM 2013, 22 September 2013
- XIII. **Karar Ağacı ile Cox Regresyon Modeli ve Bir Uygulama**  
ÖNCEL ÇEKİM H., KARASOY D.  
1. Genç İstatistikçiler Sempozyumu, Ankara, Turkey, 10 - 11 September 2013
- XIV. **Avrupa Ülkelerinin Kültürel Amaçlı İnternet Kullanım Performanslarının Değerlendirilmesi**  
ÖNCEL ÇEKİM H.  
19. İstatistik Araştırma Sempozyumu, Turkey, 6 - 07 May 2010

## Supported Projects

ÖNCEL ÇEKİM H., KADILAR C., Project Supported by Higher Education Institutions, Basit Rastgele Örneklemde Kitle Varyansı için İki Yardımcı Değişken yardımıyla Genelleştirilmiş Tahminci Ailesi, 2017 - 2018

KADILAR C., ÖNCEL ÇEKİM H., Project Supported by Higher Education Institutions, Basit Rastgele Örneklemde Hartley-Ross Varyans Tahmin Edicileri, 2016 - 2016

## Metrics

Publication: 35

Citation (WoS): 18

Citation (Scopus): 43

H-Index (WoS): 3

H-Index (Scopus): 3