Assoc. Prof. AYFER EZGİ YILMAZ ÇAKIROĞLU

Personal Information

Office Phone: +90 0312 297 7900
Email: ezgiyilmaz@hacettepe.edu.tr
Web: http://yunus.hacettepe.edu.tr/~ezgiyilmaz/

International Researcher IDs
ScholarID: Ut0c8l0AAAAJ
ORCID: 0000-0002-6214-8014
Publons / Web Of Science ResearcherID: E-6298-2013
Yoksis Researcher ID: 199337

Education Information

Doctorate, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 2013 - 2017
Postgraduate, Hacettepe University, Fen Bilimleri Enstitüsü, İstatistik, Turkey 2010 - 2013
Undergraduate, Hacettepe University, Fen Fakültesi, İstatistik, Turkey 2005 - 2010

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Karesel olumsallık tablolarında düzey ayırt edilebilirliği ve uyum, Hacettepe Üniversitesi, Fen Fakültesi, İstatistik Bölümü, 2017
Postgraduate, Sıralanabilir karesel olumsallık tablolarında uyum parametresi içeren ilişki modelleri, Hacettepe Üniversitesi, Fen Bilimleri Enstitüsü, İstatistik (Yl) (Tezli), 2013

Research Areas

Statistics, Statistical Analysis and Applications, Natural Sciences

Academic Titles / Tasks

Associate Professor, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2023 - Continues
Assistant Professor, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2022 - 2023
Research Assistant PhD, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2012 - 2022
Research Assistant, Middle East Technical University, Graduate School Of Natural And Applied Sciences, Graduate School Of Natural And Applied Sciences, 2011 - 2012

Academic and Administrative Experience

Deputy Head of Department, Hacettepe University, Fen Fakültesi, İstatistik Bölümü, 2023 - Continues

Courses

İstatistiksel Deney Tasarımı, Undergraduate, 2023 - 2024
Uygulamalı İstatistik, Undergraduate, 2023 - 2024
Veri Analizi, Undergraduate, 2022 - 2023
İstatistiğe Giriş, Undergraduate, 2022 - 2023
Olumsallık Tablolarının Çözümlenmesi, Postgraduate, 2022 - 2023
İstatistik, Undergraduate, 2017 - 2018

Supervised Theses

Yılmaz Çakıroğlu A. E., Kayıp Gözlem İçeren Olumsallık Tablolarında Log-Doğrusal Modeller, Postgraduate, E.ÖÇAL(Student), 2024

Published journal articles indexed by SCI, SSCI, and AHCI

I. **Investigating the relationship between pain level and grip and wrist muscles strength in individuals with lateral epicondylitis: is pain a barrier to strength assessment?**
AKINOĞLU B., Shehu S. U., YILMAZ A. E., Örsçelik A., Kocahan T.
International Orthopaedics, vol.48, no.3, pp.651-656, 2024 (SCI-Expanded)

II. **An Empirical Study to Investigate the Size of Non-Governmental Organizations in OECD Countries**
TOSUN A. N., YILMAZ A. E.
Panoeconomicus, vol.71, no.2, pp.243-263, 2024 (SSCI)

III. **The immediate effect of simulating leg-length discrepancy on spinal posture and pelvic position: a cross-over designed study**
Balci A., Kocahan T., AKINOĞLU B., YILMAZ A. E., Hasanoglu A.
RESEARCH IN SPORTS MEDICINE, vol.32, no.1, pp.1-11, 2024 (SCI-Expanded)

IV. **Detection of grey zones in inter-rater agreement studies**
Demirhan H., YILMAZ A. E.
BMC Medical Research Methodology, vol.23, no.1, 2023 (SCI-Expanded)

V. **Effect of a calcium phosphate-containing desensitizing agent on postoperative sensitivity: A split-mouth, randomized controlled study**
Kerimova-Köse L., YILMAZ A. E., Yamanel K., Arhun N.
American journal of dentistry, vol.36, no.5, pp.233-238, 2023 (SCI-Expanded)

VI. **Median Distance Model for Likert-Type Items in Contingency Table Analysis**
Altunay S. A., YILMAZ A. E.
Revstat Statistical Journal, vol.21, no.2, pp.267-281, 2023 (SCI-Expanded)

VII. **Weighted kappa measures for ordinal multi-class classification performance**
YILMAZ A. E., Demirhan H.
Applied Soft Computing, vol.134, 2023 (SCI-Expanded)

VIII. **How reliable are the multiple comparison methods for odds ratio?**
YILMAZ A. E.
JOURNAL OF APPLIED STATISTICS, vol.49, no.12, pp.3141-3163, 2022 (SCI-Expanded)

IX. **The effect of taxes, similar financial liabilities and demographic variables on Turkey's table wine market: a survey**
TOSUN A. N., YILMAZ A. E.

BRITISH FOOD JOURNAL, vol.124, no.8, pp.2610-2625, 2022 (SCI-Expanded)

X. **COLOR CHANGE, SURFACE ROUGHNESS, AND MICROHARDNESS OF FLUORIDE RELEASING RESTORATIVES AFTER EXPOSURE TO VARIOUS TEA SOLUTIONS AND BLEACHING TREATMENT**
Vural U. K., YILMAZ A. E., MERAL E., Gurgan S.
Fluoride, vol.55, no.3, pp.256-270, 2022 (SCI-Expanded)

XI. **Effects of charcoal-based whitening toothpastes on human enamel in terms of color, surface roughness, and microhardness: an in vitro study.**
KOÇ VURAL U., BAĞDATLI Z., YILMAZ A. E., YALÇIN ÇAKIR F., ALTUNDAŞAR E., Gurgan S.
Clinical oral investigations, vol.25, no.10, pp.5977-5985, 2021 (SCI-Expanded)

XII. **Intra- and Inter-Rater Reliability of a Well-Used and a Less-Used IsoMed 2000 Dynamometer for Knee Flexion and Extension Peak Torque Measurements in a Concentric Test in Athletes**
Kocahan T., Akinoglu B., YILMAZ A. E., Rosemann T., Knechtle B.
APPLIED SCIENCES-BASEL, vol.11, no.11, 2021 (SCI-Expanded)

XIII. **Current Predictive Resting Metabolic Rate Equations Are Not Sufficient to Determine Proper Resting Energy Expenditure in Olympic Young Adult National Team Athletes**
Balci A., Badem E. A., YILMAZ A. E., DEVRİM LANPİR A., Akinoglu B., Kocahan T., Hasanoglu A., Hill L., Rosemann T., Knechtle B.
FRONTIERS IN PHYSIOLOGY, vol.12, 2021 (SCI-Expanded)

XIV. **Agreement and adjusted degree of distinguishability for square contingency tables**
YILMAZ A. E., SARAÇBAŞI T.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.48, no.2, pp.592-604, 2019 (SCI-Expanded)

XV. **Ridit and exponential type scores for estimating the kappa statistic**
Yılmaz A. E., Aktas S.
KUWAIT JOURNAL OF SCIENCE, vol.45, no.1, pp.89-99, 2018 (SCI-Expanded)

XVI. **Autocorrelation corrected standard error for two sample t-test under serial dependence**
YILMAZ A. E., Aktas S.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.46, no.6, pp.1199-1210, 2017 (SCI-Expanded)

XVII. **The effect of changing scores for multi-way tables with open-ended ordered categories**
YILMAZ A. E., SARAÇBAŞI T.
Hacettepe Journal of Mathematics and Statistics, vol.45, no.6, pp.1881-1890, 2016 (SCI-Expanded)

XVIII. **Thrombophilic polymorphisms are not associated with disease-free survival in breast cancer patients**
Eroglu A., YILMAZ A. E., Karasoy D.
INTERNATIONAL JOURNAL OF CLINICAL AND EXPERIMENTAL MEDICINE, vol.8, no.5, pp.8115-8121, 2015 (SCI-Expanded)

Articles Published in Other Journals

I. **Erişkin Bireylerde Kor Kas Enduransı ile Alt Ekstremite Performansı ve Yürüme Hızı Arasındaki İlişki: Tanımlayıcı Araştırma**
Toprak Çelenay Ş., Bilgi B., Yılmaz Çakıroğlu A. E., Akbulut Bayrak A., Akınoğlu B.
Türkiye Klinikleri Sağlık Bilimleri Dergisi, vol.9, no.3, pp.503-540, 2024 (Peer-Reviewed Journal)

II. **SURFACE ROUGHNESS, MICROHARDNESS AND BIOFILM FORMATION OF 4- DIFFERENT CONTEMPORARY FLUORIDERELEASING RESTORATIVES AT LONG-TERM**
Vural U. K., Baltacioglu I. H., Başeren M., Eryilmaz M., Yilmaz A. E.
Clinical Dentistry and Research, vol.47, no.3, pp.97-106, 2023 (Peer-Reviewed Journal)

III. **An Analysis of Some Selected Economic and Social Factors Affecting Wine Sector: A Fuzzy Clustering Analysis1**
TOSUN A. N., YILMAZ A. E.
Hacettepe Üniversitesi İktisadi ve İdari Bilimler Fakültesi Dergisi, vol.41, no.Tarım Özel Sayısı, pp.111-123, 2023

(Peer-Reviewed Journal)

IV. **Investigation of the Effect of the COVID-19 Pandemic on Musculoskeletal Injury, Training Duration, Body Weight and Anxiety Level in Athletes: A Sectional Study**
AKINOĞLU B., PAKÖZ B., YILMAZ A. E., KOCAHAN T.
Türkiye Klinikleri Spor Bilimleri Dergisi, vol.15, no.2, pp.175-184, 2023 (Peer-Reviewed Journal)

V. **Factors Influencing the Size of Non-Profit Sector: An Empirical Study**
TOSUN A. N., YILMAZ A. E.
Sosyoekonomi, vol.31, no.55, pp.265-281, 2023 (ESCI)

VI. **Effect of contraction type at varying angular velocities on isokinetic muscle strength training**
AKINOĞLU B., Paköz B., YILMAZ A. E., Shehu S. U., Kocahan T.
Journal of Exercise Rehabilitation, vol.19, no.4, pp.228-236, 2023 (ESCI)

VII. **Mean and Standard Deviation for Open-Ended Grouped Data**
YILMAZ A. E., ALTUNAY S. A.
Politeknik Dergisi, vol.25, no.4, pp.1603-1611, 2022 (ESCI)

VIII. **Inter-rater agreement and adjusted overall degree of distinguishability for ordered categories**
YILMAZ A. E.
Chilean Journal of Statistics, vol.13, no.2, pp.165-186, 2022 (Scopus)

IX. **The effects of resin infiltration on demineralized root surface: An experimental study**
KOÇ VURAL U., YILMAZ A. E., BAĞDATLI Z., ÇİFTCİ S.
EUROPEAN ORAL RESEARCH, vol.56, no.3, pp.117-123, 2022 (ESCI)

X. **Post-hoc comparison tests for odds ratios**
YILMAZ A. E., AKTAŞ ALTUNAY S.
ELECTRONIC JOURNAL OF APPLIED STATISTICAL ANALYSIS, vol.15, no.1, pp.75-94, 2022 (ESCI)

XI. **DEPARTURE FROM QUASI-UNIFORM ASSOCIATION MODEL IN ORDERED SQUARE CONTINGENCY TABLES**
ALTUNAY S. A., YILMAZ A. E.
Mugla Journal of Science and Technology, vol.7, no.2, pp.79-83, 2021 (Peer-Reviewed Journal)

XII. **How to use adjusted degree of distinguishability and inter-rater reliability simultaneously?**
YILMAZ A. E.
Cumhuriyet Science Journal, vol.42, no.3, pp.743-744, 2021 (Peer-Reviewed Journal)

XIII. **Inter-Rater Agreement under Stratified Random Sampling Scheme**
YILMAZ A. E., AKTAŞ ALTUNAY S.
International Journal of Advances in Engineering and Pure Sciences, vol.32, no.3, pp.297-294, 2020 (Peer-Reviewed Journal)

XIV. **Latent Class Models Approach to the Multi-rater Agreement**
YILMAZ A. E., AKTAŞ ALTUNAY S.
International Journal of Applied Mathematics and Statistics, vol.57, 2018 (ESCI)

XV. **An analysis of road traffic accidents in Turkey using logit models**
YILMAZ A. E.
Journal of Statisticians: Statistics and Actuarial Sciences, vol.10, no.1, pp.11-22, 2017 (Peer-Reviewed Journal)

XVI. **MODELING ASSOCIATION PLUS AGREEMENT AMONG MULTI-RATERS FOR ORDERED CATEGORIES**
YILMAZ A. E.
STATISTICA, vol.77, no.4, pp.353-368, 2017 (ESCI)

XVII. **Assessing agreement between raters from the point of coefficients and loglinear models**
Yılmaz A. E., Saraçbaşı T.
Journal of Data Science, vol.15, no.1, pp.1-24, 2017 (Peer-Reviewed Journal)

XVIII. **Karesel Tablolarda Üstel Skorlu ilişki Simetrik Uyumsuzluk Modeli**
YILMAZ A. E., SARAÇBAŞI T.
Türkiye Klinikleri Journal of Biostatistics, vol.7, no.2, pp.96-102, 2015 (Peer-Reviewed Journal)

XIX. **Yaşam çözümlemesinde cox orantılı tehlikeler ve orantılı odds modelleri**
YILMAZ A. E., KARASOY D., Eroğlu A.

Books

I. **SPSS ve R Uygulamalı Kategorik Veri Çözümlemesi**
Aktaş Altunay S., Yılmaz A. E., Bahçecitapar M., Bakacak Karabenli L.
Seçkin Yayıncılık, Ankara, 2021

Refereed Congress / Symposium Publications in Proceedings

I. **Ridit and Exponential Weights for Multi-raterAgreement Studies in Latent Class Models**
YILMAZ A. E., AKTAŞ ALTUNAY S.
IRSYSC 2018, İzmir, Turkey, 28 - 30 April 2018

II. **Measuring Degree of Distinguishability and Agreement in Ordinal Rating Scales**
YILMAZ A. E., AKTAŞ ALTUNAY S.
XIX. Ulusal ve II. Uluslararası Biyoistatistik Kongresi, 25 - 28 October 2017

III. **Latent class models approach to the rater agreement in ordered square contingency tables**
YILMAZ A. E., AKTAŞ ALTUNAY S.
61st World Statistics Congress, MARAKEŞ, Morocco, 16 - 21 July 2017

IV. **LATENT CLASS MODELS APPROACH TO THE RATER AGREEMENT**
YILMAZ A. E., AKTAŞ ALTUNAY S.
58th Annual Conference of the South African Statistical Association, Cape-Town, South Africa, 28 November - 01 December 2016

V. **Confidence Interval for Kappa Coefficient under Stratified Sampling**
YILMAZ A. E., AKTAŞ ALTUNAY S.
8th conference of the Eastern Mediterranean Region of the International Biometric Society, 11 - 15 May 2015

VI. **Departure from Uniform Association in Square ContingencyTables**
AKTAŞ ALTUNAY S., YILMAZ A. E.
11th Applied Statistics 2014, International Conference, Ribno, Slovenia, 21 - 24 September 2014

VII. **Ridit and Exponential Type Scores for Estimating KappaStatistics**
AKTAŞ ALTUNAY S., YILMAZ A. E.
11th Applied Statistics 2014, International Conference, Ribno, Slovenia, 21 - 24 September 2014

VIII. **A Study to Compare the Road Traffic Accidents byStatistical Models on Yearly Basis**
YILMAZ A. E., SARAÇBAŞI T.
y-BIS 2013:The Joint Meeting of Young Business andIndustrial Statisticians, İstanbul, Turkey, 19 - 21 September 2013

IX. **Two Sample t Test Under Serial Dependence**
AKTAŞ ALTUNAY S., YILMAZ A. E.
ENBIS-2013, Ankara, Turkey, 15 - 19 September 2013

X. **The Effect of Changing Scores for Multiway Tables withOpen ended Ordered Categories**
YILMAZ A. E., SARAÇBAŞI T.
Joint Meeting of y-BIS and jSPE, Lizbon, Portugal, 23 - 26 July 2013

XI. **Association plus Agreement Models for Multiraters**
YILMAZ A. E., SARAÇBAŞI T.
European Conference on Data Analysis by The German Classification Society (GfKl) and theFrench speaking Classification Society (SFC), Luxembourg, 10 - 12 July 2013

Supported Projects

AKTAŞ ALTUNAY S., YILMAZ A. E., Project Supported by Higher Education Institutions, Sıralanabilir Ölçeklerde Ayırt Edilebilirlik Derecesi ve Uyumun Ölçülmesi, 2017 - 2017

YILMAZ ÇAKIROĞLU A. E., SARAÇBAŞI T., Project Supported by Higher Education Institutions, Açık uçlu değişkenlere sahip çok boyutlu olumsallık tablolarında skor değişimlerinin etkisi, 2017 - 2017

SARAÇBAŞI T., YILMAZ A. E., AKTAŞ ALTUNAY S., Project Supported by Higher Education Institutions, Değerlendirici Uyumunda Gizli Sınıf Modelleri Yaklaşımı, 2016 - 2017

YENİAY M. Ö., TURFAN D., AKTAŞ ALTUNAY S., YILMAZ A. E., Project Supported by Higher Education Institutions, Güney Afrika İstatistik Derneği, Cape Town Üniversitesi, 2016 İstatistik Konferansı, 2016 - 2017

YILMAZ ÇAKIROĞLU A. E., Project Supported by Higher Education Institutions, Gözlenen Geçiş Olaylarında Uyum, 2015 - 2017

Activities in Scientific Journals

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Technical Redactor, 2020 - 2024

Metrics

Publication: 50
Citation (WoS): 16
Citation (Scopus): 126
H-Index (WoS): 3
H-Index (Scopus): 4