

Prof. DİLARA BAKAN KALAYCIOĞLU

Personal Information

Office Phone: [+90 202 217 65](tel:+9020221765)

Email: dilarabakan@gazi.edu.tr

Web: <https://avesis.gazi.edu.tr/dilarabakan>

International Researcher IDs

ORCID: 0000-0003-1447-6918

Publons / Web Of Science ResearcherID: AAA-9468-2021

ScopusID: 57470014600

Yoksis Researcher ID: 237525

Education Information

Post Doctorate, University of London - The London School of Economics and Political Science, Department of Statistics, United Kingdom 2013 - 2014

Doctorate, Hacettepe University, Eğitim Fakültesi, Eğitim Bilimleri Bölümü, Turkey 2004 - 2008

Postgraduate, The Ohio State University, Quantitative Research Educational Measurement and Evaluation, United States Of America 2002 - 2004

Undergraduate, Hacettepe University, Fen Fakültesi, Matematik Bölümü, Turkey 1994 - 1998

Dissertations

Doctorate, Item Bias Analysis of the University Entrance Examination, Hacettepe University, Eğitim Fakültesi, Eğitim Bilimleri Bölümü, 2008

Postgraduate, Using the Rasch Model for Test Equating and Standard-setting with Unweighted and Weighted Scoring, The Ohio State University, Sayısal Araştırmalar Eğitimde Ölçme ve Değerlendirme, 2004

Research Areas

Test and Measurement in Education

Academic Titles / Tasks

Professor, Gazi University, Gazi Eğitim Fakültesi, Eğitim Bilimleri, 2022 - Continues

Associate Professor, Gazi University, Gazi Eğitim Fakültesi, Eğitim Bilimleri, 2018 - 2022

Researcher, University of London, London School of Economics and Political Science, Statistics, 2013 - 2014

Academic and Administrative Experience

Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Gazi University, Gazi Eğitim Fakültesi, Eğitim Bilimleri, 2021 - Continues

Manager of Research and Application Center, Gazi University, Gazi Eğitim Fakültesi, Eğitim Bilimleri, 2020 - 2021

Courses

Educational Data Mining, Doctorate, 2021 - 2022
Educational Research Methods, Undergraduate, 2020 - 2021
Educational Statistics-1, Postgraduate, 2020 - 2021
Scientific Research Methods, Undergraduate, 2020 - 2021
Educational Statistics-2, Postgraduate, 2020 - 2021
Educational Measurement and Evaluation, Undergraduate, 2018 - 2019
Educational Project, Undergraduate, 2019 - 2020

Advising Theses

Bakan Kalaycıoğlu D., Investigation of the variables affecting the mathematics achievement of 4th and 8th grade students based on the TIMSS 2019 using structural equation modeling, Postgraduate, Y.NUR(Student), 2023
Bakan Kalaycıoğlu D., Determining aberrant response patterns according to person-fit indexes in the PISA 2018 test, Postgraduate, E.KAMACI(Student), 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Can preclinical students improve their clinical reasoning skills only by taking case-based online testlets? A randomized controlled study**
Kıyak Y. S., Budakoğlu I. İ., Bakan Kalaycıoğlu D., Kula S., Coşkun Ö.
INNOVATIONS IN EDUCATION AND TEACHING INTERNATIONAL, vol.60, no.3, pp.325-334, 2023 (SSCI)
- II. **The Influence of Socioeconomic Status, Self-efficacy, and Anxiety on Mathematics Achievement in England, Greece, Hong Kong, the Netherlands, Turkey, and the USA**
Bakan Kalaycıoğlu D.
EDUCATIONAL SCIENCES-THEORY & PRACTICE, vol.15, no.5, pp.1391-1401, 2015 (SSCI)
- III. **Factors Related To University Entrance Examination Achievement: A Case Study from Turkey**
Bakan Kalaycıoğlu D.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.40, no.179, pp.181-192, 2015 (SSCI)
- IV. **Differential Item Functioning Analysis of the Science and Mathematics Items in the University Entrance Examinations in Turkey**
Bakan Kalaycıoğlu D., Berberoglu G.
JOURNAL OF PSYCHOEDUCATIONAL ASSESSMENT, vol.29, no.5, pp.467-478, 2011 (SSCI)
- V. **Item Bias Analysis of the University Entrance Examination**
Bakan Kalaycıoğlu D., Kelecioğlu H.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.36, no.161, pp.3-13, 2011 (SSCI)

Articles Published in Other Journals

- I. **Exploratory Factor Analysis of a Computerized Case-Based F-Type Testlet Variant**
Kıyak Y. S., Budakoğlu I. İ., Bakan Kalaycıoğlu D., Coşkun Ö.
Medical Science Educator, vol.33, no.5, pp.1191-1196, 2023 (ESCI)
- II. **Development of Effectiveness in Preschool Institutions Scale: Validity and Reliability Study**
Söylemez E. T. Ç., Yılmaz A., Özdemir M., Kalaycıoğlu D.
Yüzüncü Yıl Üniversitesi Eğitim Fakültesi Dergisi, vol.19, no.3, pp.936-964, 2022 (Peer-Reviewed Journal)
- III. **Gender-based Differential Item Functioning Analysis of the Medical Specialization Education Entrance Examination**

BAKAN KALAYCIOĞLU D.

JOURNAL OF MEASUREMENT AND EVALUATION IN EDUCATION AND PSYCHOLOGY-EPOD, vol.13, no.1, pp.1-14, 2022 (ESCI)

- IV. **Academics' perception and practices of online education during the COVID-19 pandemic: The case of Turkey**
Bakan Kalaycioğlu D., Toprak A., Eyerci C., Ugur Z., Güç A., Yildiz S., Toprak M., Demir Z., Demir Ö., Yildiz Ö. F., et al.
Journal of Educational Technology and Online Learning, vol.5, no.1, pp.32-46, 2022 (Peer-Reviewed Journal)
- V. **Changes in Physicians' Specialization Preferences from 1987 to 2017**
Bakan Kalaycioğlu D.
Tıp Eğitimi Dünyası, vol.19, no.59, pp.157-170, 2020 (Peer-Reviewed Journal)
- VI. **The Big Fish-Little Pond Effect on Affective Factors Based on PISA 2012 Mathematics Achievement**
Bakan Kalaycioglu D.
JOURNAL OF MEASUREMENT AND EVALUATION IN EDUCATION AND PSYCHOLOGY-EPOD, vol.8, no.1, pp.1-14, 2017 (Peer-Reviewed Journal)
- VII. **Uzman Gözüyle Açık Uçlu Sorularla Sınav**
Bakan Kalaycioğlu D., Buldu N.
Barkod, vol.1, no.2, pp.14-15, 2013 (Non Peer-Reviewed Journal)

Books & Book Chapters

- I. **Educational Assessment**
Bakan Kalaycioğlu D., Karakaya I., Atalay Kabasakal K.
in: K12 Skills Framework Türkiye Holistic Model, AŞKAR,PETEK; TOPÇU,HALİL İBRAHİM ; ALTUN,ARİF; CIRIK,İLKER; KANDIRMAZ,MUSTAFA, Editor, Milli Eğitim Bakanlığı, Ankara, pp.299-303, 2023
- II. **Data Literacy Skill**
Bakan Kalaycioğlu D.
in: K12 Skills Framework Türkiye Holistic Model, AŞKAR,Petek; TOPÇU,Halil İbrahim; ALTUN,Arif; CIRIK,İlker; KANDIRMAZ,Mustafa, Editor, Milli Eğitim Bakanlığı, Ankara, pp.290-295, 2023
- III. **Norms and Test Equating**
Bakan Kalaycioğlu D.
in: Pscyhometric Methods Theory into Practice, Arif Özer,Burcu Atar, Editor, Mentis Yayıncılık, Ankara, pp.413-457, 2021

Refereed Congress / Symposium Publications in Proceedings

- I. **Examining Some Variables Affecting TIMSS 2019 Mathematics Achievement Using Structural Equation Model: Turkey, South Korea and Finland Sample.**
Korkmaz Y. N., Bakan Kalaycioğlu D.
Gazi Üniversitesi 2. Uluslararası Türk Dünyası Eğitim Bilimleri Kongresi, Ankara, Turkey, 16 - 18 November 2022
- II. **PISA 2018 Uygulamasında Hızlı Tahmin Davranışının Farklı Değişkenlere Göre İncelenmesi.**
Arpaguş Z. N., Bakan Kalaycioğlu D.
VIII. Uluslararası Eğitimde ve Psikolojide Ölçme ve Değerlendirme Kongresi, İzmir, Turkey, 21 - 23 September 2022
- III. **Cluster Analysis of PISA 2018 Reading Skills in Terms of Students' Access to Information Technologies.**
Aydoğdu N., Bakan Kalaycioğlu D.
VIII. Uluslararası Eğitimde ve Psikolojide Ölçme ve Değerlendirme Kongresi, İzmir, Turkey, 21 - 23 September 2022
- IV. **Klinik Öncesi Dönem Tıp Öğrencileri, Klinik Akıl Yürütme Becerilerini Sadece Olguya Dayalı Çevrimiçi Testleri Cevaplayarak Geliştirebilir mi?: Randomize Kontrollü Bir Deney**
Kıyak Y. S., Budakoğlu I. İ., Bakan Kalaycioğlu D., Kula S., Coşkun Ö.

XII. Ulusal Tıp Eğitimi Kongresi, Samsun, Turkey, 19 May 2022

- V. **Determining Aberrant Response Patterns According to Person Fit Indices PISA 2018: Sample of Turkey, China, United States of America, Korea, Russia and Japan**
Kamacı E., Bakan Kalaycıođlu D.
7. Uluslararası Eğitimde ve Psikolojide Ölçme ve Değerlendirme Kongresi, Ankara, Turkey, 1 - 04 September 2021
- VI. **University students' attendance and cheating tendencies in distance education.**
Bakan Kalaycıođlu D., Arpaguş Z. N.
Eğitimde Ölçme Değerlendirme Uygulamaları Ulusal Kongresi, İstanbul, Turkey, 29 - 30 May 2021
- VII. **Changes in Physicians' Medical Speciality Preferences from 1987 to 2017**
Bakan Kalaycıođlu D.
Ulusal Tıp Eğitimi Sempozyumu (UTES) 2019, Eskişehir, Turkey, 10 - 12 April 2019, pp.35
- VIII. **Dağılım Çarpıklığının Omega İndeksinin Performansı Üzerindeki Etkilerinin Çeşitli Koşullar Altında İncelenmesi**
Sünbül Ö., Ömür Sünbül S., Bakan Kalaycıođlu D.
6th International Congress on Measurement and Evaluation in Education and Psychology, Prizren, Kosovo, 5 - 08 September 2018, pp.284-286
- IX. **The Role of External Ability Grouping Criteria on Uniform and Non-Uniform DIF**
Suna H. E., Tanberkan H., Bakan Kalaycıođlu D.
11th Conference of the International Test Commission, Montreal, Canada, 2 - 05 July 2018
- X. **Predicting Mathematics Achievement Results from England Greece and Turkey**
Bakan Kalaycıođlu D.
Seventeenth Annual International Conference on Education, Athens, Greece, 18 - 21 May 2015, pp.41
- XI. **Big Fish Little Pond Effect on Mathematics Self Concept in Turkey**
Bakan Kalaycıođlu D.
International Congress on Education for the Future: Issues and Challenges, Ankara, Turkey, 13 - 15 May 2015
- XII. **Examining ÖSS Results According to School and Student Characteristics**
Bakan Kalaycıođlu D., Berberođlu H. G., Asil M., Çekinmez Ü., Çetin M., Kürklü L.
Türkiye'nin 2023 Vizyonunda Üniversiteye Giriş Sistemi, Ankara, Turkey, 16 - 17 April 2009, pp.244-258
- XIII. **Modeling the Factors Related to Student Selection Examination Success**
Asil M., Berberođlu H. G., Bakan Kalaycıođlu D., Çekinmez Ü., Çetin M., Kürklü L.
Türkiye'nin 2023 Vizyonunda Üniversiteye Giriş Sistemi, Ankara, Turkey, 16 - 17 April 2009, pp.259-270
- XIV. **The Comparison of DIF Detection Methods in the University Entrance Examination in Turkey**
Berberođlu H. G., Bakan Kalaycıođlu D.
6th Conference of the International Test Commission., Liverpool, England, 14 - 16 July 2008
- XV. **Using the Rasch Model for Test Equating and Standard Setting with Unweighted and Weighted Scoring**
Bakan Kalaycıođlu D., Börkan B.
Annual Conference of the Mid-Western Educational Research Association, Ohio, United States Of America, 13 - 16 October 2004
- XVI. **The Rationales of the Within-Ability-Concern Index and the Beyond-Ability-Surprise Index**
Bakan Kalaycıođlu D., Dcosta A., Huang T. W.
Annual Conference of the Mid-Western Educational Research Association., Ohio, United States Of America, 16 - 18 October 2002

Other Publications

- I. **2017 Fall Medical Specialization Examination Evaluation Report.**
Erođlu E., Özdamar Ş. O., Suna E., Bakan Kalaycıođlu D., Tanberkan H., Şensoy S.
Technical Report, pp.1-46, 2018
- II. **2017 Spring Medical Specialization Examination Evaluation Report.**

Bakan Kalaycıođlu D., Özdamar Ş. O., Suna E., Şensoy S., Tanberkan H., Erođlu E.
Technical Report, pp.1-44, 2018

III. 2018 National Defence University Exam Evaluation Report.

Tanberkan H., Şensoy S., Suna E., Erođlu E., Bakan Kalaycıođlu D.
Technical Report, pp.1-28, 2018

IV. 2017 Vertical Transfer Examination Evaluation Report.

Tanberkan H., Şensoy S., Suna E., Erođlu E., Bakan Kalaycıođlu D.
Technical Report, pp.1-46, 2018

V. Determination of Foreign Language Tests Equivalences

Bakan Kalaycıođlu D.
Technical Report, pp.1-171, 2013

Supported Projects

Bakan Kalaycıođlu D., World Bank Supported Project, Institutional Standards Update, 2022 - 2023

Bakan Kalaycıođlu D., Project Supported by Other Official Institutions, K12 National Skill Development Program, 2022 - 2022

Ođur U., Bakan Kalaycıođlu D., United Nations Development Program - UNDP Supported Project, Tasarruf Dedektifleri Kadın ve Gençlik Vakfı Eđitim Programı Birleşmiş Milletler Program Kodu TUR SGP OP5 STAR CC 11 05 2012, 2012 - 2012

Ođur U., Bakan Kalaycıođlu D., Kalaycıođlu A., TUBITAK Project, Savings Detectives Applied Training Program, 2011 - 2012

Activities in Scientific Journals

MILLI EGITIM, Publication Committee Member, 2022 - 2023

Memberships / Tasks in Scientific Organizations

The Association of Measurement and Evaluation in Education and Psychology, Board Member, 2021 - 2023, Turkey

Metrics

Publication: 37

Citation (WoS): 46

Citation (Scopus): 54

H-Index (WoS): 3

H-Index (Scopus): 2

Scholarships

2219 Postdoctoral Research Scholarship Program, TUBITAK, 2013 - 2014

1416 International Graduate Education Scholarship, Ministry of Education, 2002 - 2004

Non Academic Experience

Company, The World Bank Group, Education

Other Public Institution, Assessment, Selection and Placement Center, Research and Development Department

Other Public Institution, Assessment, Selection and Placement Center, Foreign Language Examinations Department

Other Public Institution, Assessment, Selection and Placement Center, Assessment and Test Development Department

University, London School of Economics and Political Science, Statistics

Other Public Institution, Assessment, Selection, and Placement Center, Assessment and Test Development Department

Other Public Institution, Assessment, Selection and Placement Center, Assessment and Test Development Department