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Personal Information

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International Researcher IDs

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

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, İstatistik , 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 Kalaycıođlu D., TIMSS 2019 uygulamasına katılan 4. ve 8. sınıf öğrencilerinin matematik başarısını etkileyen değişkenlerin yapısal eşitlik modeli ile incelenmesi, Postgraduate, Y.NUR(Student), 2023
Bakan Kalaycıođlu D., PISA 2018 testinde birey-uyum indekslerine göre anormal yanıt desenlerinin belirlenmesi, 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., Budakođlu I. İ., Bakan Kalaycıođlu D., Kula S., Coşkun Ö.
INNOVATIONS IN EDUCATION AND TEACHING INTERNATIONAL, 2022 (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 Kalaycıođlu 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 Kalaycıođlu 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 Kalaycıođlu 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 Kalaycıođlu D., Keleciođlu H.
EGITIM VE BILIM-EDUCATION AND SCIENCE, vol.36, no.161, pp.3-13, 2011 (SSCI)

Articles Published in Other Journals

- I. **Development of Effectiveness in Preschool Institutions Scale: Validity and Reliability Study**
Söylemez E. T. Ç., Yılmaz A., Özdemir M., Kalaycıođlu D.
Van Yüzüncü Yıl Üniversitesi Eğitim Fakültesi Dergisi, vol.19, no.3, pp.936-964, 2022 (Peer-Reviewed Journal)
- II. **Gender-based Differential Item Functioning Analysis of the Medical Specialization Education Entrance Examination**
Bakan Kalaycıođlu D.
Journal of Measurement and Evaluation in Education and Psychology, vol.3, no.1, pp.1-14, 2022 (ESCI)
- III. **Academics' perception and practices of online education during the COVID-19 pandemic: The case of**

Turkey

Bakan Kalaycıođlu D., Toprak A., Eyerci C., Ugur Z., Güç A., Yıldız S., Toprak M., Demir Z., Demir Ö., Yıldız Ö. F., et al.
Journal of Educational Technology and Online Learning, vol.5, no.1, pp.32-46, 2022 (Peer-Reviewed Journal)

IV. **Changes in Physicians' Specialization Preferences from 1987 to 2017**

Bakan Kalaycıođlu D.

Tıp Eğitimi Dünyası, vol.19, no.59, pp.157-170, 2020 (Peer-Reviewed Journal)

V. **The Big Fish-Little Pond Effect on Affective Factors Based on PISA 2012 Mathematics Achievement**

Bakan Kalaycıođlu D.

JOURNAL OF MEASUREMENT AND EVALUATION IN EDUCATION AND PSYCHOLOGY-EPOD, vol.8, no.1, pp.1-14, 2017 (Peer-Reviewed Journal)

VI. **Uzman Gözüyle Açık Uçlu Sorularla Sınav**

Bakan Kalaycıođlu D., Buldu N.

Barkod, vol.1, no.2, pp.14-15, 2013 (Non Peer-Reviewed Journal)

Books & Book Chapters

I. **Norms and Test Equating**

Bakan Kalaycıođlu D.

in: Psychometric Methods Theory into Practice, Arif Özer, Burcu Atar, Editor, Mentis Yayıncılık, Ankara, pp.413-457, 2021

Refereed Congress / Symposium Publications in Proceedings

I. **Klinik Öncesi Dönem Tıp Öğrencileri, Klinik Akıl Yürütme Becerilerini Sadece Olguya Dayalı Çevrimiçi Testleri Cevaplayarak Geliştirebilir mi?: Randomize Kontrollü Bir Deney**

Kıyak Y. S., Budakođlu I. İ., Bakan Kalaycıođlu D., Kula S., Coşkun Ö.

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

II. **Birey Uyum İndekslerine Göre Anormal Yanıt Örüntülerinin Belirlenmesi PISA 2018 Uygulaması:**

Türkiye, Çin, Amerika Birleşik Devletleri, Kore, Rusya ve Japonya Örneđii

Kamacı E., Bakan Kalaycıođlu D.

7. Uluslararası Eğitimde ve Psikolojide Ölçme ve Deđerlendirme Kongresi, Ankara, Turkey, 1 - 04 September 2021

III. **1987'den 2017'ye Hekimlerin Uzmanlık Alan Tercih Deđişimleri**

Bakan Kalaycıođlu D.

Ulusal Tıp Eğitimi Sempozyumu (UTES) 2019, Eskişehir, Turkey, 10 - 12 April 2019, pp.35

IV. **Dađılım 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

V. **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

VI. **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

VII. **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

VIII. **Okul ve Öğrenci Özelliklerine Göre ÖSS Sonuçlarının İncelenmesi**

- 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
- IX. **Öđrenci Seçme Sınavı ÖSS Başarısı İle İlişkili Faktörlerin Modellenmesi**
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
- X. **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
- XI. **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
- XII. **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., Project Supported by Other Official Institutions, ÖSYM Sınavlarının Olađandışılık Analizlerinin Yapılması ve Raporlanması, 2018 - 2019
- Ođur U., Bakan Kalaycıođlu D., United Nations Development Program - UNDP Supported Project, Tasarruf Dedektifleri Kadın ve Gençlik Vakfı Eğitim Programı Birleşmiş Milletler Program Kodu TUR SGP 0P5 STAR CC 11 05 2012, 2012 - 2012
- Ođur U., Bakan Kalaycıođlu D., Kalaycıođlu A., TUBITAK Project, Tasarruf Dedektifleri Uygulamalı Eğitim Programı, 2011 - 2012

Activities in Scientific Journals

Milli Eğitim, Publication Committee Member, 2022 - Continues

Memberships / Tasks in Scientific Organizations

Eğitimde ve Psikolojide Ölçme ve Değerlendirme Derneği, Board Member, 2021 - Continues, Turkey

Metrics

Publication: 30

Citation (WoS): 43

Citation (Scopus): 39

H-Index (WoS): 3

H-Index (Scopus): 2

Scholarships

2219 Yurtdışı Doktora Sonrası Araştırma Bursu, TÜBİTAK, 2013 - 2014

1416 MEB Yurtdışı Lisansüstü Öğrenim Bursu, Ministry of Education, 2002 - 2004

Non Academic Experience

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

Other Public Institution, Ölçme Seçme ve Yerleştirme Merkezi (ÖSYM), Soru Hazırlama ve Geliştirme Daire Başkanlığı,
ÖSYM Uzmanı

Other Public Institution, Ölçme Seçme ve Yerleştirme Merkezi (ÖSYM), Soru Hazırlama ve Geliştirme Daire Başkanlığı,
Matematikçi