

Asst. Prof. BAŐAK BARAK

Personal Information

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International Researcher IDs

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Education Information

Doctorate, Anadolu University, EŐİTİM BİLİMLERİ ENSTİTÜSÜ, MATEMATİK EŐİTİMİ ANABİLİM DALI, Turkey 2010 - 2018

Postgraduate, Balıkesir University, Institute Of Science, Turkey 2005 - 2007

Undergraduate, Balıkesir University, Necatibey Faculty Of Education, Department Of Secondary School Science And Mathematics Branch Education, Turkey 2000 - 2005

Dissertations

Doctorate, Ortaokul Matematik Öğretmen Adaylarının İspat Yapma Süreçlerinin İncelenmesi, Anadolu University, EŐİTİM BİLİMLERİ ENSTİTÜSÜ, MATEMATİK EŐİTİMİ ANABİLİM DALI, 2018

Research Areas

Teacher Training For Elementary Sch. Edu. in Mathematics, Teacher Training

Academic Titles / Tasks

Assistant Professor, Anadolu University, EŐİTİM FAKÜLTESİ, MATEMATİK VE FEN BİLİMLERİ EŐİTİMİ BÖLÜMÜ, 2018 - Continues

Research Assistant, Anadolu University, EŐİTİM FAKÜLTESİ, MATEMATİK VE FEN BİLİMLERİ EŐİTİMİ BÖLÜMÜ, 2007 - 2018

Courses

Development of Mathematical Proof, Undergraduate, 2023 - 2024, 2022 - 2023

Geometry, Undergraduate, 2023 - 2024, 2022 - 2023

Practice Teaching II, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022

Research in Area of Specialization, Postgraduate, 2023 - 2024, 2022 - 2023

Thesis, Postgraduate, 2023 - 2024, 2022 - 2023

Graduation Project, Undergraduate, 2023 - 2024

Term Project, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Mathematical Reasoning, Postgraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021
Seminar, Postgraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
Cultural Activities, Undergraduate, 2022 - 2023
The Foundations of Mathematics, Undergraduate, 2023 - 2024, 2022 - 2023
Mathematics Learning and Teaching Approaches, Undergraduate, 2023 - 2024, 2022 - 2023
Community Services, Undergraduate, 2022 - 2023
Practice Teaching I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022
The Foundations of Mathematics II, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Logical Reasoning, Undergraduate, 2022 - 2023, 2021 - 2022
Community Service Practices, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Mathematics II, Undergraduate, 2021 - 2022, 2020 - 2021
Mathematics I, Undergraduate, 2021 - 2022, 2020 - 2021
The Foundations of Mathematics I, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
Mathematics Learning and Teaching Approaches, Undergraduate, 2021 - 2022, 2020 - 2021, 2019 - 2020
Teaching Practice, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Career Planning, Undergraduate, 2020 - 2021
Community Services, Undergraduate, 2019 - 2020, 2018 - 2019
Analysis II, Undergraduate, 2019 - 2020, 2018 - 2019
School Experience, Undergraduate, 2020 - 2021, 2019 - 2020, 2018 - 2019
Analysis II, Undergraduate, 2018 - 2019
Analysis I, Undergraduate, 2019 - 2020, 2018 - 2019
Development of Mathematical Proof, Undergraduate, 2018 - 2019
Analysis I, Undergraduate, 2018 - 2019

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **The Erroneous Derivative Examples of Eleventh Grade Students**
Gür H., Barak B.
Kuram ve Uygulamada Eğitim Bilimleri, vol.7, no.1, pp.473-480, 2007 (SSCI)

Articles Published in Other Journals

- I. **Matematiksel Muhakeme Üzerine 2007-2021 Yılları Arasında Türkiye'de Yapılan Lisansüstü Tezlerin İncelenmesi**
BARAK B.
Uluslararası Eğitim Bilimleri Dergisi, vol.9, no.32, pp.236-266, 2022 (Peer-Reviewed Journal)
- II. **ORTAOKUL MATEMATİK ÖĞRETMENİ ADAYLARININ PROBLEM ÇÖZMEDEKİ FONKSİYONEL DÜŞÜNME BECERİLERİ**
KABAE T., BARAK B.
The Journal of International Education Science, 2017 (Peer-Reviewed Journal)
- III. **Research of Middle School Pre Service Mathematics Teachers Mathematical Literacy on PISA Items**
KABAE T., BARAK B.
Türk Bilgisayar ve Matematik Eğitim Dergisi, vol.7, no.2, pp.321-349, 2016 (Peer-Reviewed Journal)
- IV. **Öğrencilerin Limit Kavramına Yönelik Kavram İmajları ve Kavram Tanımları**
KABAE T., BARAK B., ÖZDAŞ A.
Anadolu Journal of Educational Sciences International, vol.5, no.1, pp.88-114, 2015 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

- I. **Ortaokul Matematik Öğretmen Adaylarının Üstbilişsel Farkındalıklarının Geliştirilmesine Yönelik Bir Eylem Araştırması: Sorunlar ve Çözümler**
Barak B., Barut B.
International Education Congress 2024, Diyarbakır, Turkey, 18 September - 21 October 2024, pp.699-703
- II. **A Framework for Metacognitive Awareness in Problem Solving**
Barut B., Barak B.
7th International Conference on Teaching, Learning and Education (ICTLE), Kobenhavn, Denmark, 3 - 06 November 2023, pp.3
- III. **INVESTIGATION OF PRE-SERVICE ELEMENTARY MATHEMATICS TEACHERS' UNDERSTANDING OF PROPOSITIONS' LOGICAL STRUCTURES**
BARAK B.
45th Conference of the International Group for the Psychology of Mathematics Education, Alicante, Spain, 18 - 23 July 2022, vol.4, pp.174
- IV. **Ortaokul Matematik Öğretmeni Adaylarının İspatlama Süreçlerinin İncelenmesi**
BARAK B.
4th International Symposium of Turkish Computer and Mathematics Education, İzmir, Turkey, 26 September 2019
- V. **Ortaokul Matematik Öğretmeni Adaylarının Ortaokul Düzeyinde İspatlamaya İlişkin Kavramsallaştırmaları**
BARAK B.
EJER Congress 2019, Ankara, Turkey, 19 June 2019, pp.1416-1417
- VI. **Ortaokul matematik öğretmeni adaylarının kavram bilgilerini kanıtlama sürecinde kullanma durumlarının incelenmesi.**
KABAEEL T., BARAK B.
EJERCONGRESS 2018, Antalya, Turkey, 2 - 05 May 2018, vol.1, pp.1150-1152
- VII. **Ortaokul matematik öğretmeni adaylarının kanıtlama becerileri.**
BARAK B., KABAEEL T.
EJERCONGRESS 2018, 2 - 05 May 2018, vol.1, pp.1153-1154
- VIII. **Proving abilities of pre service middle school mathematics teachers The function concept case**
BARAK B., KABAEEL T.
Proceedings of the 40th Conference of the International Group for the Psychology of Mathematics Education, Szeged, Hungary, 3 - 07 August 2016
- IX. **Pre service middle school mathematics teachers functional thinking abilities in solving problems**
BARAK B., KABAEEL T.
8th Annual International Conference on Education and New Learning Technologies, Barcelona, Spain, 4 - 06 July 2016
- X. **Ortaokul matematik öğretmeni adaylarının fonksiyon kavramı bağlamında problem çözme becerileri**
KABAEEL T., BARAK B.
3. Uluslararası Avrasya Eğitim Araştırmaları Kongresi, Muğla, Turkey, 31 May - 03 June 2016
- XI. **Middle school prospective mathematics teachers assessments on PISA items**
BARAK B., KABAEEL T.
XVIII Congress AMSE-AMCE-WAER Teaching and Training Today for Tomorrow, Eskişehir, Turkey, 30 May - 02 June 2016
- XII. **Middle school prospective mathematics teachers mathematical literacy**
BARAK B., KABAEEL T.
14th International JTEFS/BCC Conference Sustainable Development, Culture, Education, Konya, Turkey, 12 - 14 May 2016
- XIII. **Ortaokul Matematik Öğretmeni Adaylarının Matematik Okuryazarlık Becerilerinin PISA Soruları Üzerinden İncelenmesi**
KABAEEL T., BARAK B.
2. Türk Bilgisayar ve Matematik Eğitimi Sempozyumu, Adıyaman, Turkey, 16 - 18 May 2015

- XIV. **Students Concept Images about Limit of a Function at Infinity**
BARAK B., KABAEL T.
37th Conference of the International Group for the Psychology of Mathematics Education, 28 July - 02 August 2013
- XV. **Pre Service Mathematics Teachers Abilities in some PISA Items**
KABAEL T., BARAK B.
4 rd International Conference on New Horizons in Education, 25 - 27 June 2013
- XVI. **Öğrencilerin Limit Konusunundaki Kavram İmajları ve Kavram Tanımları**
KABAEL T., BARAK B.
9. Ulusal Fen Bilimleri ve Matematik Eğitimi Kongresi, Turkey, 23 - 25 September 2010

Supported Projects

- Barut B., Barak B., Project Supported by Higher Education Institutions, Developing Metacognitive Awareness of Middle School Presevice Mathematics Teachers, 2023 - 2024
- Barak B., Project Supported by Higher Education Institutions, Ortaokul Matematik Öğretmeni Adaylarının Önermelerin Mantıksal Yapısını Anlama Durumlarının İncelenmesi, 2022 - 2023
- Kabael T., Süral İ., Barak B., Project Supported by Higher Education Institutions, İlköğretim Matematik Öğretmenliği Öğrencilerinin Geliştirdikleri Öğretim Materyallerinin WEB Ortamında Paylaşımı, 2018 - 2019
- KABAEL T., BARAK B., Project Supported by Higher Education Institutions, Ortaokul matematik öğretmen adaylarının problem çözme ve kanıtlama becerileri arasındaki ilişki, 2016 - 2017
- KABAEL T., BARAK B., Project Supported by Higher Education Institutions, Ortaokul Matematik Öğretmeni Adaylarının Kanıtlama Becerileri, 2015 - 2016