



SİMTEN BAYRAKÇI DOĞAN PROF.

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Address : Akdeniz Üniversitesi Fen Fakültesi Matematik
Bölümü Antalya

International Researcher IDs

ScholarID: [cqkmunoAAAAJ](#)

ORCID: 0000-0002-7613-5265

Publons / Web Of Science ResearcherID: C-1806-2016

ScopusID: 36129470600

Yoksis Researcher ID: 114385



Learning Knowledge

Doctorate
1996 - 2001

Akdeniz University, Institute of Science, Matematik Anabilim Dalı, Turkey

Postgraduate
1994 - 1996

Akdeniz University, Institute of Science, Matematik Anabilim Dalı, Turkey

Undergraduate
1990 - 1994

Akdeniz University, Fen_Edebiyat Fakültesi, Matematik Bölümü, Turkey

Foreign Languages

English, B2 Upper Intermediate

Dissertations

Doctorate, Genelleşmiş Poisson Yarıgrubu vasıtasıyla B-eliptik potansiyellerin tersini belirleme, Akdeniz University, Institute of Science, Matematik Anabilim Dalı, 2001

Postgraduate, LogTheata_r Dönüşümleri ve G(kök m) Hecke Gruplarının Çarpan Değerleri, Akdeniz University, Institute of Science, Matematik Bölümü, 1996

Academic Titles / Tasks

Associate Professor

2014 - Continues

Akdeniz University, Faculty of Science, Department of Mathematics

Assistant Professor

2002 - 2014

Akdeniz University, Faculty of Science, Department of Mathematics

Supported Projects

1. BAYRAKÇI DOĞAN S., Uygur V. S., Project Supported by Higher Education Institutions, B-Maksimal Komütatörün ve B-Maksimal Operatörün Komütatörünün Ağırlıklı Lebesgue ve B-Morrey Uzayında Sınırlılığı, 2018 - 2019

Jury Memberships

Post Graduate, Post Graduate, Akdeniz Üniversitesi, July, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Akdeniz Üniversitesi, June, 2022

Doctorate, Doctorate, Akdeniz Üniversitesi, May, 2022

Post Graduate, Post Graduate, Akdeniz Üniversitesi, January, 2022

Post Graduate, Post Graduate, Akdeniz Üniversitesi, January, 2022

Post Graduate, Post Graduate, Akdeniz Üniversitesi, January, 2022

Post Graduate, Post Graduate, Akdeniz Üniversitesi, March, 2021

Doctorate, Doctorate, Akdeniz Üniversitesi, May, 2018

Post Graduate, Post Graduate, Akdeniz Üniversitesi, December, 2017

Competition, 18.Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 2013

Post Graduate, Yüksek Lisans Tez Savunma , T.C. Ahi Evran Üniversitesi Fen Bilimleri Enstitüsü, January, 2013

Competition, 17. Ulusal Antalya Matematik Olimpiyatı , Akdeniz Üniversitesi, April, 2012

Competition, 16. Ulusal Antalya Matematik Olimpiyatı , Akdeniz Üniversitesi, March, 2011

Competition, 6.İlkÖğretim Öğrencilerine Yönelik Matematik ve Fen Bilimleri Proje Çalışması, İl Milli Eğitim Müdürlüğü, June, 2010

Competition, 15.Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 2010

Post Graduate, Yüksek Lisans Tez Savunma , T.C. Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü, January, 2010

Competition, 14. Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, March, 2009

Competition, 13. Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 2008

Post Graduate, Yüksek Lisans Tez Savunma , T.C. Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü, January, 2008

Competition, 12. Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 2007

Post Graduate, Post Graduate, Süleyman Demirel Üniversitesi, January, 2007

Competition, 11. Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, June, 2006

Competition, 10.Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, June, 2005

Competition, 9. Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 2004

Post Graduate, Yüksek Lisans Tez Savunma , T.C. Süleyman Demirel Üniversitesi Fen Bilimleri Enstitüsü, January, 2004

Competition, 8. Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 2003

Competition, 7.Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 2002

Competition, 6.Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 2001

Competition, 5.Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, June, 2000

Competition, 4. Ulusal Antalya Matematik Olimpiyatı , Akdeniz Üniversitesi, May, 1999

Competition, 3. Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 1998

Competition, 2. Ulusal Antalya Matematik Olimpiyatı, Akdeniz Üniversitesi, May, 1997

Published journal articles indexed by SCI, SSCI, and AHCI

1. **On Flett potentials associated with the Laplace–Bessel differential operator**
Bayrakçı Doğan S., Eryiğit M., Sezer Evcan S., Yıldız G.
ANNALS OF FUNCTIONAL ANALYSIS, vol.14, no.58, pp.57-73, 2023 (SCI-Expanded)
2. **On the BMO spaces associated with the Laplace-Bessel differential operator**
Bayrakçı Doğan S., Sezer Evcan S., Yıldız G., Kahraman R.
TURKISH JOURNAL OF MATHEMATICS, vol.46, no.7, pp.2916-2926, 2022 (SCI-Expanded)
3. **On the convergence of the Abel–Poisson means of multiple Fourier series**
Sezer S., ERYİĞİT M., BAYRAKÇI DOĞAN S.
Turkish Journal of Mathematics, vol.46, no.4, pp.1302-1309, 2022 (SCI-Expanded)
4. **B-maximal commutators, commutators of B-singular integral operators and B-Riesz potentials on B-Morrey spaces**
Hasanov J. J., AYAZOĞLU R., BAYRAKÇI DOĞAN S.
OPEN MATHEMATICS, vol.18, pp.715-730, 2020 (SCI-Expanded)
5. **On the non-tangential convergence of Poisson and modified Poisson semigroups at the smoothness points of L_p -functions**
BAYRAKÇI DOĞAN S., Shafiev M. F., Aliev I. A.
Periodica Mathematica Hungarica, vol.80, no.2, pp.249-258, 2020 (SCI-Expanded)
6. **Commutators of the B-Maximal Operator and B-Maximal Commutators**
BAYRAKÇI DOĞAN S.
FILOMAT, vol.34, no.2, pp.499-505, 2020 (SCI-Expanded)
7. **On the boundedness of square function generated by the Bessel differential operator in weighted Lebesgue L_p , α spaces**
BAYRAKÇI DOĞAN S.
OPEN MATHEMATICS, vol.16, pp.730-739, 2018 (SCI-Expanded)
8. **Square-like functions generated by the Laplace-Bessel differential operator**
Keles S., Bayrakci S.
Advances in Difference Equations, vol.2014, no.1, 2014 (SCI-Expanded)
9. **Square-like Functions Generated by a Composite Wavelet Transform**
Aliev I. A., Bayrakci S.
Mediterranean Journal of Mathematics, vol.8, no.4, pp.553-561, 2011 (SCI-Expanded)
10. **On approximation properties of bi-parametric parabolic type potentials**
Bayrakçı S., Sezer S.
Publicationes Mathematicae, vol.78, no.1, pp.127-139, 2011 (SCI-Expanded)
11. **On approximation properties of the parabolic potentials**
Uyhan S., Gadjiev A. D., Aliyev İ.
Bulletin of the Australian Mathematical Society, vol.74, no.3, pp.449-460, 2006 (SCI-Expanded)
12. **On inversion of Bessel potentials associated with the Laplace-Bessel differential operator**
Aliyev İ., Uyhan-Bayrakci S.
Acta Mathematica Hungarica, vol.95, no.1-2, pp.125-145, 2002 (SCI-Expanded)

Articles Published in Other Journals

1. **Boundedness of the B-Maximal Commutators on B-Morrey Spaces**
Bayrakçı Doğan S., Uygur V. S.
The Mediterranean International Conference of Pure and Applied Mathematics Proceedings Book, vol.1, pp.188-

- 191, 2018 (Peer-Reviewed Journal)
2. **L_p, v -boundedness of the vector-valued B-square functions**
BAYRAKÇI S., KELES S., FATAİ İ.
Transactions of NAS of Azerbaijan, Issue Mathematics, vol.37, no.4, pp.12-23, 2017 (Scopus)
 3. **On Approximation Properties of Generalized Parabolic Potentials**
Keles S., Bayrakçı Doğan S.
Proceedings of the Institute of Mathematics and Mechanics, vol.40, no.1, pp.14-27, 2014 (ESCI)
 4. **On Beta-Semigroup Generated by Fourier-Bessel Transforms and Riesz Potentials Associated With Beta-Semigroup**
Keles S., Bayrakçı S.
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.6, no.2, pp.175-186, 2013 (Peer-Reviewed Journal)
 5. **On Poisson Semigroup generated by the generalized B-translation**
Bayrakçı Doğan S.
Global Journal of Dynamical System and Applications (GJDSA), vol.1, pp.679-686, 2005 (Peer-Reviewed Journal)
 6. **On Inversion of B-Elliptic Potentials by the Method of Balakrishnan-Rubin**
ALİYEV İ., BAYRAKÇI S.
FRACTIONAL CALCULUS AND APPLIED ANALYSIS, vol.1, no.4, pp.365-384, 1998 (Peer-Reviewed Journal)

Books & Book Chapters

1. **Composite wavelet transforms: Applications and perspectives**
Aliyev İ., Sezer Evcan S., Bayrakçı Doğan S.
in: Contemporary Mathematics, Olafsson, G (Olafsson, G) Grinberg, EL (Grinberg, EL) Larson, D (Larson, D) Jorgensen, PET (Jorgensen, PET) Massopust, PR (Massopust, PR) Quinto, ET (Quinto, ET) Rubin, B (Rubin, B), Editor, American Mathematical Society, New York, pp.1-25, 2008

Refereed Congress / Symposium Publications in Proceedings

1. **On the B-BMO Space generated by the Laplace-Bessel Differential Operator**
Bayrakçı Doğan S., Yıldız G.
7th International Zeugma Conference on Scientific Research, Gaziantep, Turkey, 21 - 23 January 2022, pp.1
2. **Boundedness of the B-Maximal Commutators on B-Morrey Spaces**
BAYRAKÇI S.
The Mediterranean International Conference of Pure-Applied Mathematics and Related Areas (MICOPAM 2018), Antalya, Turkey, 26 - 29 October 2018, pp.188-191
3. **On non-tangential convergence of modified Poisson semigroup at the nu-smoothness points of L_p -functions**
Bayrakçı Doğan S., Shafiyev M.
Modern Problems of mathematics and mechanics Proceedings of the conference devoted to the 80th anniversary of academician Akif Gadjiev, Baku, Azerbaijan, 6 - 08 December 2017, pp.199-201
4. **B-Campanato spaces and their properties**
Bayrakçı Doğan S., Keleş S.
Modern Problems of mathematics and mechanics Proceedings of the conference devoted to the 80th anniversary of academician Akif Gadjiev, Baku, Azerbaijan, 6 - 08 December 2017, pp.112
5. **On the Square function associated with Bessel Differential operator**
Bayrakçı S.
international conference "Operators in Morrey-type Spaces and Applications"(OMTSA2017), Kırşehir, Turkey, 10 - 13 July 2017
6. **On a characterization of the Riesz potentials with the aid of the beta-semigroup**

BAYRAKÇI S.

Operator on Morrey Type Space and Applications (OMTSA-2011), Kırşehir, Turkey, 20 - 27 May 2011, pp.1

7. **Square-like functions generated by a composite wavelet transform**

BAYRAKÇI S.

Bulgarian-Turkish-Ukrainian scientific conference mathematical analysis, Differential equations and their applications, Burgaz, Bulgaria, 15 - 20 September 2010, pp.1

8. **On approximation properties of a bi-parametric family of parabolic potential type operators**

BAYRAKÇI S.

Mathematical Analysis Differential Equations and their applications, Famagusta, Cyprus (Kktc), 12 - 15 September 2008, pp.1

9. **A wavelet-like transform generated by a generalized Gauss-Weierstrass Integral and its inverse**

BAYRAKÇI S.

16 th International Conference of Jangeon Mathematical Society, Antalya, Turkey, 4 - 06 July 2005, pp.1

10. **On Poisson semigroup generated by the generalized B-Translation**

BAYRAKÇI S.

Dynamical Systems and Applications, Antalya, Turkey, 5 - 10 October 2004, pp.1

11. **On Riesz potentials associated with Laplace-Bessel differential operator**

BAYRAKÇI S.

XV. Ulusal Matematik Sempozyumu, Mersin, Turkey, 4 - 07 September 2002, pp.1

12. **On inversion of B-Riesz potentials**

BAYRAKÇI S.

XIII. Ulusal Matematik Sempozyumu, İstanbul, Turkey, 6 - 09 September 2000, pp.1

13. **On inversion of Bessel potentials, associated with Laplace-Bessel differential operator**

BAYRAKÇI S.

XII. Ulusal Matematik Sempozyumu, Malatya, Turkey, 6 - 10 September 1999, pp.1

14. **On Poisson Semigroup, Associated with the Laplace-Bessel Differential Operator**

BAYRAKÇI S.

XI. Ulusal Matematik Sempozyumu, Isparta, Turkey, 15 - 17 September 1998, pp.42-50

Other Publications

1. **İlginç Limit Problemleri Matematik Dünyası Dergisi Cilt 2**

BAYRAKÇI S.

Presentation, pp.15-19, 2002

Academic and Administrative Experience

2017 - 2021	BAP Scientific Commissioner	Akdeniz University, Faculty Of Science, Department of Mathematics
2014 - 2020	Deputy Head of Department	Akdeniz University, Faculty of Science, Department of Mathematics
2011 - 2013	Board Member	Akdeniz University, Faculty of Science, Department of Mathematics

Courses

Fonksiyonel Analiz II, Undergraduate, 2020 - 2021

Fonksiyonel Analiz 1 , Undergraduate, 2020 - 2021
Harmonik Analizde Seçme Konular, Doctorate, 2019 - 2020
Hilbert Uzayları, Doctorate, 2019 - 2020
İleri Analiz 2, Undergraduate, 2017 - 2018
Fonksiyonel Analizde Seçme Konular 2, Doctorate, 2017 - 2018
İleri Reel Analiz I, Postgraduate, 2016 - 2017
İleri Analiz 1, Undergraduate, 2016 - 2017
Reel Analiz II, Undergraduate, 2016 - 2017
Reel Analiz I, Undergraduate, 2017 - 2018
Fonksiyonel Analizde Seçme Konular 1, Doctorate, 2016 - 2017
Analiz 1, Undergraduate, 2015 - 2016
Analiz 2, Undergraduate, 2016 - 2017
Matematik II, Undergraduate, 2015 - 2016
Diferansiyel Denklemler II, Undergraduate, 2014 - 2015

Advising Theses

Bayrakçı Doğan S., ON THE B-BMO SPACES GENERATED BY LAPLACE-BESSEL DIFFERANTIAL OPERATOR, Postgraduate, G.Yıldız(Student), 2021
Bayrakçı Doğan S., ON THE BOUNDEDNESS OF THE HARDY-LITTLEWOOD MAXIMAL FUNCTION AND ITS APPL'ICATION AREAS, Postgraduate, R.Argın(Student), 2021
BAYRAKÇI DOĞAN S., B-maksimal commutatorun L_p , Lebesgue uzayında ve B-Morrey uzayında sınırlılığının, Postgraduate, V.Semih(Student), 2019
BAYRAKÇI DOĞAN S., Orlicz Uzaylarında Maksimal Operatörünün Sınırlılığı, Postgraduate, S.Tuğçe(Student), 2017
BAYRAKÇI DOĞAN S., Orlicz ve Orlicz Morrey Uzayları Üzerine, Postgraduate, G.Kökalp(Student), 2017
BAYRAKÇI DOĞAN S., Fourier-Bessel Harmonik Analizinde Bazı Uzaylar ve İntegral Operatörler Üzerine, Doctorate, Ş.Altınkol(Student), 2014
BAYRAKÇI DOĞAN S., Genelleşmiş Kaymanın Doğurduğu Kuadratik (Square) Fonksiyonlarının İncelenmesi, Postgraduate, C.Cengiz(Student), 2012
BAYRAKÇI DOĞAN S., Riesz-Bessel Parabolik Potansiyellerinin Yakınsama Özellikleri, Postgraduate, Ş.Altınkol(Student), 2009
BAYRAKÇI DOĞAN S., Laplace Operatörünün Doğurduğu Gauss-Weierstrass İntegrali ve Bazı Özelliklerinin İncelenmesi, Postgraduate, U.Ercan(Student), 2007

Scientific Refereeing

TURKISH JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, July 2021
TURKISH JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, February 2019

Metrics

Publication: 34
Citation (WoS): 27
Citation (Scopus): 37
H-Index (WoS): 3
H-Index (Scopus): 4

Congress and Symposium Activities

The Mediterranean International Conference of Pure-Applied Mathematics and Related Areas (MICOPAM 2018), Attendee, Antalya, Turkey, 2018

Modern Problems of Mathematics and Mechanics devoted to the 80th anniversary of academician Akif Gadjiev, Baku, Azerbaijan, 6 - 08 Aralık 2017, Attendee, Baku, Azerbaijan, 2017

Modern Problems of Mathematics and Mechanics devoted to the 80th anniversary of academician Akif Gadjiev, Baku, Azerbaijan, 6 - 08 Aralık 2017, Attendee, Baku, Azerbaijan, 2017

International Conference on Operators in General Morrey-Type Spaces and Applications (OMTSA 2017), Attendee, Kırşehir, Turkey, 2017

28. Ulusal Matematik Sempozyumu, Attendee, Antalya, Turkey, 2015

Operators in Morrey-Type Space and Applications-OMTSA 2011, Attendee, Kırşehir, Turkey, 2011

Bulgarian-Turkish-Ukrainian Scientific Conference Mathematical Analysis, Differential Equations and their Applications, Attendee, Burgas, Bulgaria, 2010

Mathematical Analysis Differential Equations and their Applications, Attendee, Gazimagusa, Cyprus (Kktc), 2008

16th International Conference of Jangjeon Mathematical Society, Attendee, Turkey, 2005

Dynamical Systems and Applications, Attendee, Antalya, Turkey, 2004

XV. Ulusal Matematik Sempozyumu, Attendee, Mersin, Turkey, 2002

XIII. Ulusal Matematik Sempozyumu, Attendee, İstanbul, Turkey, 2000

XII. Ulusal Matematik Sempozyumu, Attendee, Malatya, Turkey, 1999

XI. Ulusal Matematik Sempozyumu, Attendee, Isparta, Turkey, 1998

Research Areas

Mathematics, Functional Analysis, Fourier Analysis, Real Functions, Operators, Measure and Integration, Abstract Harmonic Analysis, Natural Sciences

Non Academic Experience

Akdeniz Üniversitesi Fen Fakültesi