



SİMTEN BAYRAKÇI DOĞAN

PROF.

Email : simten@akdeniz.edu.tr

Office Phone : [+90 242 227 8900](tel:+902422278900) Extension: 2362

Fax Phone : [+90 242 227 8911](tel:+902422278911)

Address : Akdeniz Üniversitesi Fen Fakültesi Matematik
Bölümü Antalya

International Researcher IDs

ScholarID: [cqkmunoAAAAJ](https://orcid.org/0000-0002-7613-5265)

ORCID: 0000-0002-7613-5265

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

ScopusID: 36129470600

Yoksis Researcher ID: 114385



Education

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 , alpha 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 I.
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

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

Papers Published in Refereed Scientific Meetings

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 Gadjeiev, 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 Gadjeiev, 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

Doctorate

Harmonik Analizde Seçme Konular, Doctorate, 2019 - 2020
Hilbert Uzayları, Doctorate, 2019 - 2020
Fonksiyonel Analizde Seçme Konular 2, Doctorate, 2017 - 2018
Fonksiyonel Analizde Seçme Konular 1, Doctorate, 2016 - 2017

Postgraduate

İleri Reel Analiz I, Postgraduate, 2016 - 2017

Undergraduate

Fonksiyonel Analiz II, Undergraduate, 2020 - 2021
Fonksiyonel Analiz 1 , Undergraduate, 2020 - 2021
İleri Analiz 2, Undergraduate, 2017 - 2018
İleri Analiz 1, Undergraduate, 2016 - 2017
Reel Analiz II, Undergraduate, 2016 - 2017
Reel Analiz I, Undergraduate, 2017 - 2018
Analiz 1, Undergraduate, 2015 - 2016
Analiz 2, Undergraduate, 2016 - 2017
Matematik II, Undergraduate, 2015 - 2016
Diferansiyel Denklemler II, Undergraduate, 2014 - 2015

Supervised Theses

Bayrakçı Doğan S., ON THE B-BMO SPACES GENERATED BY LAPLACE-BESSEL DIFFERENTIAL OPERATOR, Postgraduate, G.Yıldız(Student), 2021
Bayrakçı Doğan S., ON THE BOUNDEDNESS OF THE HARDY-LITTLEWOOD MAXIMAL FUNCTION AND ITS APPLICATION 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

Peer Reviews in Scientific Publications

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 Jangeon 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, Öğretim Üyesi