

## **Prof. YAŞAR ÇAKMAK**

### **Personal Information**

**Email:** ycakmak@cumhuriyet.edu.tr

**Web:** <https://avesis.cumhuriyet.edu.tr/ycakmak>

### **International Researcher IDs**

ScholarID: 9LN0H8oAAAAJ

ORCID: 0000-0002-6820-1322

Publons / Web Of Science ResearcherID: JVE-0265-2024

Yoksis Researcher ID: 59784

### **Education Information**

Doctorate, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, Turkey 1997 - 2003

Postgraduate, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, Turkey 1995 - 1997

Undergraduate, Sivas Cumhuriyet University, Fen-Edebiyat Fakültesi, Matematik Pr., Turkey 1988 - 1992

### **Foreign Languages**

English, B2 Upper Intermediate

### **Dissertations**

Doctorate, Sonlu aralıktaki integrallenemeyen potansiyele sahip Sturm-Liouville operatörlerin, spektral karakteristiklerine göre belirlenmesi, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2003

Postgraduate, Coulomb singülerliğine sahip sturm-liouville operatörünün iz'inin (trace) hesaplanması, Sivas Cumhuriyet Üniversitesi, Fen Fakültesi, Matematik Bölümü, 1997

### **Research Areas**

Natural Sciences

### **Academic Titles / Tasks**

Professor, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, 2024 - Continues

Associate Professor, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, 2019 - 2024

Assistant Professor, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, 2005 - 2019

Lecturer PhD, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, 2003 - 2005

Research Assistant, Sivas Cumhuriyet University, Fen Fakültesi, Matematik Bölümü, 1993 - 2003

### **Academic and Administrative Experience**

## Courses

### Postgraduate

Uzmanlık Alan Dersi, Postgraduate, 2018 - 2019

Seminer Dersi, Postgraduate, 2016 - 2017

### Undergraduate

Öğretmenlik Uygulaması, Undergraduate, 2018 - 2019

Diferansiyel Denklemler, Undergraduate, 2019 - 2020

Kısmi Diferansiyel Denklemler - I, Undergraduate, 2019 - 2020

Diferansiyel Denklemler, Undergraduate, 2019 - 2020

Mühendislik Matematiği, Undergraduate, 2018 - 2019

Diferansiyel Denklemler - II, Undergraduate, 2018 - 2019

Diferansiyel Denklemler - I, Undergraduate, 2019 - 2020

Diferansiyel Denklemler - II, Undergraduate, 2018 - 2019

MAT 1156 GENEL MATEMATİK-II, Undergraduate, 2017 - 2018

MAT 2006 DİFERANSİYEL DENKLEMLER-II, Undergraduate, 2017 - 2018

Bitirme Ödevi/Tezi, Undergraduate, 2018 - 2019

MAT1155 GENEL MATEMATİK I, Undergraduate, 2017 - 2018

Diferansiyel Denklemler - I, Undergraduate, 2018 - 2019

MAT2005 DİFERANSİYEL DENKLEMLER-I, Undergraduate, 2017 - 2018

Genel Matematik - II, Undergraduate, 2016 - 2017

Lineer Cebir, Undergraduate, 2016 - 2017

MAT2215 DİFERANSİYEL DENKLEMLER (JEOFİZİK MÜH.), Undergraduate, 2016 - 2017

MAT2217 DİFERANSİYEL DENKLEMLER (GEOMATİK MÜH.), Undergraduate, 2016 - 2017

Genel Matematik - I, Undergraduate, 2017 - 2018

Genel Matematik - I, Undergraduate, 2017 - 2018

MAT1155 GENEL MATEMATİK I (ELEKTRİK E. MÜH.), Undergraduate, 2016 - 2017

Genel Matematik - II, Undergraduate, 2016 - 2017

Lineer Cebir, Undergraduate, 2016 - 2017

MAT1016 LINEER CEBİR (ELEKTRİK E. MÜH.), Undergraduate, 2016 - 2017

MAT2217 DİFERANSİYEL DENKLEMLER (MADEN MÜH.), Undergraduate, 2016 - 2017

Genel Matematik - II, Undergraduate, 2015 - 2016

Genel Matematik - I, Undergraduate, 2016 - 2017

Vektörel Analiz, Undergraduate, 2015 - 2016

Vektörel Analiz, Undergraduate, 2015 - 2016

Genel Matematik - I, Undergraduate, 2016 - 2017

Genel Matematik - II, Undergraduate, 2015 - 2016

Diferansiyel Denklemler, Undergraduate, 2015 - 2016

Diferansiyel Denklemler Ve Lineer Cebir, Undergraduate, 2015 - 2016

Mühendislik Matematiği, Undergraduate, 2014 - 2015

Matematik, Undergraduate, 2014 - 2015

Diferansiyel Denklemler - II, Undergraduate, 2013 - 2014

Mühendislik Matematiği, Undergraduate, 2013 - 2014

Diferansiyel Denklemler, Undergraduate, 2014 - 2015

Diferansiyel Denklemler - II, Undergraduate, 2013 - 2014

Diferansiyel Denklemler, Undergraduate, 2012 - 2013

Diferansiyel Denk., Undergraduate, 2012 - 2013

Diferansiyel Denk., Undergraduate, 2012 - 2013

Diferansiyel Denklemler - I, Undergraduate, 2010 - 2011  
Kısmi Diferansiyel Denklemler - II, Undergraduate, 2010 - 2011  
Diferansiyel Denklemler I, Undergraduate, 2010 - 2011  
Analiz II, Undergraduate, 2009 - 2010  
Kısmi Türevli Dif. Denk., Undergraduate, 2008 - 2009  
Analiz II, Undergraduate, 2008 - 2009  
Özel Fonks. Ve Dönüşümler - II, Undergraduate, 2008 - 2009  
Kısmi Türevli Dif. Denk., Undergraduate, 2008 - 2009  
Analiz I, Undergraduate, 2008 - 2009  
Diferansiyel Denklemler, Undergraduate, 2007 - 2008  
Analiz I, Undergraduate, 2008 - 2009  
Diferansiyel Denklemler II, Undergraduate, 2007 - 2008  
Diferansiyel Denklemler II, Undergraduate, 2007 - 2008  
Temel Matematik I, Undergraduate, 2007 - 2008  
Diferansiyel Denklemler II, Undergraduate, 2007 - 2008  
Matematik III, Undergraduate, 2007 - 2008  
Temel Matematik I, Undergraduate, 2007 - 2008  
Özel Fonks. Ve Dönüşümler - I, Undergraduate, 2007 - 2008  
Diferansiyel Denklemler I, Undergraduate, 2007 - 2008  
Diferansiyel Denklemler II, Undergraduate, 2007 - 2008  
Genel Matematik - II, Undergraduate, 2006 - 2007  
Genel Matematik II, Undergraduate, 2006 - 2007  
Analiz-II, Undergraduate, 2005 - 2006  
Diferansiyel Denklemler I, Undergraduate, 2006 - 2007  
Diferansiyel Denklemler I, Undergraduate, 2006 - 2007  
Diferansiyel Denklemler, Undergraduate, 2005 - 2006  
Analiz-I, Undergraduate, 2005 - 2006  
Kısmi Diferansiyel Denklemler, Undergraduate, 2003 - 2004  
**Associate Degree**  
Matematik, Associate Degree, 2003 - 2004

## Supervised Theses

Çakmak Y., Uyumu kesirli bir difüzyon operatörünün çözümünün  $\alpha$ -integral gösterimi ve operatörün temel özellikleri, Postgraduate, E.KOÇ(Student), 2023  
Çakmak Y., Regüler Sturm-Liouville operatörü üzerine ters problemler, Postgraduate, G.ŞAHİN(Student), 2019  
ÇAKMAK Y., Süreksizlik koşullarına sahip süreksiz katsayılı difüzyon operatörü için düz ve ters problemler, Doctorate, S.IŞIK(Student), 2013  
ÇAKMAK Y., Diferansiyel operatörlerin regülerize izi üzerine, Postgraduate, M.KÖSEAHMETOĞLU(Student), 2012  
ÇAKMAK Y., Süreksiz katsayılı difüzyon denkleminin çözümünün integral gösterilimi, Postgraduate, S.KARACAN(Student), 2009

## Published journal articles indexed by SCI, SSCI, and AHCI

- I. Inverse nodal problem for the quadratic pencil of the Sturm-Liouville equations with parameter-dependent nonlocal boundary condition  
Çakmak Y., Keskin B.  
TURKISH JOURNAL OF MATHEMATICS, vol.47, no.1, pp.397-404, 2023 (SCI-Expanded)
- II. Trace Formulae for a Conformable Fractional Diffusion Operator

- Çakmak Y.  
FILOMAT, vol.36, no.14, pp.4665-4674, 2022 (SCI-Expanded)
- III. Inverse nodal problem for a conformable fractional diffusion operator  
ÇAKMAK Y.  
INVERSE PROBLEMS IN SCIENCE AND ENGINEERING, vol.29, no.9, pp.1308-1322, 2021 (SCI-Expanded)
- IV. Half Inverse Problem for the Impulsive Diffusion Operator with Discontinuous Coefficient  
ÇAKMAK Y., İŞIK S.  
FILOMAT, vol.30, no.1, pp.157-168, 2016 (SCI-Expanded)
- V. Recovery of the Impulsive Diffusion Operator with Discontinuous Coefficient  
ÇAKMAK Y., İŞIK S.  
APPLIED MATHEMATICS & INFORMATION SCIENCES, vol.8, no.5, pp.2267-2275, 2014 (SCI-Expanded)
- VI. UNIQUENESS OF THE SOLUTION OF HALF INVERSE PROBLEM FOR THE IMPULSIVE STURM LIOUVILLE OPERATOR  
Ozkan A. S., KESKİN B., ÇAKMAK Y.  
BULLETIN OF THE KOREAN MATHEMATICAL SOCIETY, vol.50, no.2, pp.499-506, 2013 (SCI-Expanded)
- VII. Double Discontinuous Inverse Problems for Sturm-Liouville Operator with Parameter-Dependent Conditions  
Ozkan A. S., Keskin B., Cakmak Y.  
ABSTRACT AND APPLIED ANALYSIS, 2013 (SCI-Expanded)
- VIII. Boundary value problem for second-order differential equations with coulomb singularity on a finite interval  
Amirov R., Cakmak Y., Gulyaz S.  
INDIAN JOURNAL OF PURE & APPLIED MATHEMATICS, vol.37, no.3, pp.125-140, 2006 (SCI-Expanded)

## Articles Published in Other Journals

- I. Inverse Problems for a Conformable Fractional Diffusion Operator  
Çakmak Y.  
Journal of New Theory, vol.44, pp.43-51, 2023 (Peer-Reviewed Journal)
- II. Ambarzumyan-Type Theorem for a Conformable Fractional Diffusion Operator  
Çakmak Y.  
Communications in Advanced Mathematical Sciences, vol.6, no.3, pp.142-147, 2023 (Peer-Reviewed Journal)
- III. Inverse Nodal Problem for a Conformable Fractional Diffusion Operator With Parameter-Dependent Nonlocal Boundary Condition  
Çakmak Y.  
CUMHURIYET SCIENCE JOURNAL, vol.44, no.2, pp.356-363, 2023 (Peer-Reviewed Journal)
- IV.  $\alpha$ -Integral Representation of The Solution for A Conformable Fractional Diffusion Operator and Basic Properties of The Operator  
Koç E., Çakmak Y.  
CUMHURIYET SCIENCE JOURNAL, vol.44, no.1, pp.170-180, 2023 (Peer-Reviewed Journal)
- V. Uniqueness Theorems for Sturm-Liouville Operator with Parameter Dependent Boundary Conditions and Finite Number Of Transmission Conditions  
ÇAKMAK Y., KESKİN B.  
Cumhuriyet Science Journal, vol.38, no.3, pp.535-543, 2017 (Peer-Reviewed Journal)
- VI. Ambarzumyan Type Theorems for a Class of Sturm-Liouville Problem  
ÖZKAN A. S., ÇAKMAK Y.  
Cumhuriyet Science Journal, vol.38, no.3, pp.396-399, 2017 (Peer-Reviewed Journal)
- VII. A Representation for Diffusion Equation with Discontinuous Coefficient  
İşik S., Çakmak Y.  
Palestine Journal of Mathematics, vol.5, no.2, pp.130-137, 2016 (Scopus)

- VIII. **On Jost Solution of Diffusion Equation with Discontinuous Coefficient**  
**ÇAKMAK Y., İŞIK S.**  
 Cumhuriyet Üniversitesi Fen Fakültesi Fen Bilimleri Dergisi, vol.32, no.1, pp.25-39, 2011 (Peer-Reviewed Journal)
- IX. **Bir Spektruma ve Normalleştirici Sayılara Göre Sturm Liouville Operatörler için Ters Inverse Problem**  
**AMİROV R., ÇAKMAK Y.**  
 Cumhuriyet Üniversitesi Fen Fakültesi Fen Bilimleri Dergisi, vol.24, no.1, pp.34-50, 2003 (Peer-Reviewed Journal)
- X. **About System of Dirac Differential Equation Which has Discontinuity Point in Semi Axis**  
**GÜLYAZ ÖZYURT S., ÇAKMAK Y., AMİROV R.**  
 Cumhuriyet Üniversitesi Fen Fakültesi Fen Bilimleri Dergisi, vol.24, no.2, pp.18-27, 2003 (Peer-Reviewed Journal)
- XI. **Trace Formula for the Sturm Liouville Operator with Singularity at  $x=0$**   
**AMİROV R., ÇAKMAK Y.**  
 Transactions of Academy of Sciences of Azerbaijan. Series of Physical-Technical and Mathematical Sciences, vol.21, no.1, pp.40-48, 2001 (Peer-Reviewed Journal)

### Papers Published in Refereed Scientific Meetings

- I. **ON THE DIFFUSION OPERATOR WITH A PARAMETER-DEPENDENT INTEGRAL TYPE NONLOCAL BOUNDARY CONDITION**  
**Çakmak Y.**  
 6. INTERNATIONAL HASANKEYF SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Batman, Turkey, 18 - 19 November 2023, pp.700-701
- II. **On The Conformable Fractional Diffusion Operator With Parameter-Dependent Integral Type Nonlocal Boundary Condition**  
**Çakmak Y.**  
 7. INTERNATIONAL GÖBEKLİTEPE SCIENTIFIC STUDIES CONGRESS, Şanlıurfa, Turkey, 11 - 12 November 2023, pp.38-39
- III. **A NOTE ON CONFORMABLE FRACTIONAL DIFFUSION OPERATOR**  
**Çakmak Y.**  
 INTERNATIONAL İSTANBUL MODERN SCIENTIFIC RESEARCH CONGRESS -IV, İstanbul, Turkey, 16 - 18 December 2022, pp.117
- IV. **DIRECT PROBLEM FOR A CONFORMABLE FRACTIONAL DIFFUSION OPERATOR**  
**Çakmak Y.**  
 3. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Nevşehir, Turkey, 11 - 12 December 2022, pp.1506
- V. **Inverse Problem on Sturm-Liouville Operator with ParameterDependent Boundary and Finite number of TransmissionConditions**  
**ÇAKMAK Y., KESKİN B.**  
 International Conference on Mathematics and Mathematics Education, Şanlıurfa, Turkey, 11 - 13 May 2017
- VI. **Süreksiz Koşullarına Sahip Süreksiz Katsayılı Difüzyon Operatörü İçin Ters Problemler**  
**ÇAKMAK Y., İŞIK S.**  
 9. Ankara Matematik Günleri, Turkey, 12 - 13 June 2014
- VII. **Inverse problem for Dirac Operators with Discontinuity Conditions Inside an Interval**  
**TOPSAKAL N., ÇAKMAK Y., AMİROV R.**  
 Mathematical Analysis, Differential Equations and Their Applications, Mersin, Turkey, 4 - 09 October 2012
- VIII. **Süreksiz Katsayılı Difüzyon Denklemi Üzerine**  
**ÇAKMAK Y., İŞIK S.**  
 6. Ankara Matematik Günleri, Ankara, Turkey, 2 - 03 June 2011
- IX. **Bir Spektrum ve Normalleştirici Sayılara Göre Sturm Liouville Operatörler için İnverse Problem**  
**AMİROV R., ÇAKMAK Y.**

- XV.Uluslararası Matematik Sempozyumu, Mersin, Turkey, 4 - 07 September 2002
- X. Inverse Spectral Problem for the Differential Equations of the Second Order with Singularity  
AMIROV R., ÇAKMAK Y.  
9th Int.Coll. on Differential Equations, Plovdiv, Bulgaria, 18 - 23 August 1998
- XI. Trace formula for the Sturm-Liouville operator with singularity  
Amirov R., Cakmak Y.  
8th International Colloquium on Differential Equations, Plovdiv, Bulgaria, 18 - 23 August 1997, pp.9-16

## Supported Projects

- Çakmak Y., Project Supported by Higher Education Institutions, Regüler Sturm-Liouville Operatörü Üzerine Ters Problemeler, 2017 - 2019
- ÇAKMAK Y., Project Supported by Higher Education Institutions, Parametreye Bağlı Sınır Koşullarına ve Sonlu Sayıda Süreksizlik Koşullarına Sahip Sturm-Liouville Operatörünün Belirlenmesi, 2015 - 2016

## Activities in Scientific Journals

Cumhuriyet Science Journal, Committee Member, 2019 - Continues

## Peer Reviews in Scientific Publications

- Cumhuriyet Science Journal, National Scientific Refreed Journal, July 2020
- Cumhuriyet Science Journal, National Scientific Refreed Journal, July 2020

## Metrics

- Publication: 30  
Citation (WoS): 26  
Citation (Scopus): 34  
H-Index (WoS): 4  
H-Index (Scopus): 5

## Congress and Symposium Activities

6. INTERNATIONAL HASANKEYF SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, Attendee, Batman, Turkey, 2023  
7. INTERNATIONAL GÖBEKLİTEPE SCIENTIFIC STUDIES CONGRESS, Attendee, Şanlıurfa, Turkey, 2023  
INTERNATIONAL İSTANBUL MODERN SCIENTIFIC RESEARCH CONGRESS -IV, Attendee, İstanbul, Turkey, 2022  
3. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Attendee, Nevşehir, Turkey, 2022  
3. INTERNATIONAL CAPPADOCIA SCIENTIFIC RESEARCH CONGRESS, Session Moderator, Nevşehir, Turkey, 2022  
International Conference on Mathematics and Mathematics Education, Attendee, Şanlıurfa, Turkey, 2017  
Inverse problem for Dirac Operators with Discontinuity Conditions Inside an Interval, Working Group, Mersin, Turkey, 2012  
6. ANKARA MATEMATİK GÜNLERİ, Audience, Ankara, Turkey, 2011  
Bir Spektrum ve Normalleştirici Sayılara Göre Sturm Liouville Operatörler için Inverse Problem, Working Group, Mersin, Turkey, 2002  
Inverse Spectral Problem for the Differential Equations of the Second Order with Singularity, Working Group, Plovdiv, Bulgaria, 1998

Trace Formula for the Sturm Liouville Operator with Singularity, Working Group, Plovdiv, Bulgaria, 1997  
Singüleriteye sahip Sturm Liouville Operatörler için Iz Trace Formülü, Working Group, Balıkesir, Turkey, 1997

### **Non Academic Experience**

MİLLİ EĞİTİM BAKANLIĞI , Öğretmen