

Prof. Gülcan KEKEÇ



Personal Information

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İstanbul/TÜRKİYE

International Researcher IDs

ORCID: 0000-0001-5805-7710

Publons / Web Of Science ResearcherID: AAE-5690-2020

Yoksis Researcher ID: 102114

Education Information

Doctorate, Istanbul University, Institute of Graduate Studies In Sciences, Matematik Anabilim Dalı, Turkey 2006 - 2011

Postgraduate, Istanbul University, Institute of Graduate Studies In Sciences, Matematik Anabilim Dalı, Turkey 2003 - 2006

Masters (Non-Thesis), Istanbul University, Institute of Graduate Studies In Sciences, Orta Öğretim Alan Öğretmenliği
Anabilim Dalı Matematik Öğretmenliği Programı, Turkey 2002 - 2003

Undergraduate, Istanbul University, Faculty Of Science, Department of Mathematics, Turkey 1998 - 2002

Foreign Languages

English, C1 Advanced

German, B1 Intermediate

French, A2 Elementary

Dissertations

Doctorate, Cebirsel katsayılı bazı boşluk serileri ve Liouville Sayıları, Istanbul University, Institute of Graduate Studies In
Sciences, Matematik Anabilim Dalı, 2010

Postgraduate, Markoff Sayıları ve Markoff Formları, Istanbul University, Institute of Graduate Studies In Sciences,
Matematik Anabilim Dalı, 2006

Research Areas

Mathematics, Number Theory, Natural Sciences

Academic Titles / Tasks

Professor, Istanbul University, Faculty of Science, Department of Mathematics, 2022 - Continues

Associate Professor, Istanbul University, Faculty of Science, Department of Mathematics, 2013 - 2022

Other, Université Strasbourg I, Mathematics Institute, Mathematics Institute, 2018 - 2018
Research Assistant, Istanbul University, Faculty of Science, Department of Mathematics, 2006 - 2013
Other, Université Strasbourg I, Matematik Enstitüsü, Matematik Enstitüsü, 2012 - 2012
Other, Johann Wolfgang Goethe-Universitaet Frankfurt am Main, Matematik Enstitüsü, Matematik Enstitüsü, 2009 - 2009
Research Assistant, Istanbul University, Faculty of Science, Department of Mathematics, 2005 - 2006

Academic and Administrative Experience

Head of Department, Istanbul University, Faculty Of Science, Department of Mathematics, 2020 - 2022
Deputy Head of Department, Istanbul University, Faculty Of Science, Department of Mathematics, 2017 - 2018
Head of Department, Istanbul University, Faculty Of Science, Department of Mathematics, 2013 - 2018

Courses

Number Theory II, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2019 - 2020
Bitirme Tezi II, Undergraduate, 2023 - 2024
Seminer, Undergraduate, 2023 - 2024
Abstract Mathematics II, Undergraduate, 2022 - 2023, 2021 - 2022, 2018 - 2019, 2017 - 2018
Introduction to the theory of algebraic numbers, Postgraduate, 2023 - 2024, 2022 - 2023, 2020 - 2021
Introduction to Diophantine Approximation, Postgraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
Lineer Cebir I, Undergraduate, 2023 - 2024
Kişisel Proje IV, Undergraduate, 2022 - 2023
Bitirme Tezi I, Undergraduate, 2023 - 2024
Abstract Mathematics II, Undergraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020
CEBİRSEL SAYILARLA TRANSANDANT SAYILARA YAKLAŞIM, Doctorate, 2023 - 2024, 2019 - 2020, 2014 - 2015
Lineer Cebir, Undergraduate, 2022 - 2023
Abstract Mathematics I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
NUMBER THEORY, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021
The theory of transcendental numbers, Doctorate, 2021 - 2022, 2018 - 2019, 2017 - 2018
MATHEMATICS I, Undergraduate, 2022 - 2023, 2021 - 2022
Number Theory II, Undergraduate, 2020 - 2021, 2019 - 2020
Abstract Mathematics II, Undergraduate, 2020 - 2021, 2019 - 2020
Number Theory I, Undergraduate, 2020 - 2021
Number Theory II, Undergraduate, 2019 - 2020
Algebra I, Undergraduate, 2020 - 2021
Matematik I, Undergraduate, 2019 - 2020
Mathematics I, Undergraduate, 2019 - 2020
Soyut Matematik I, Undergraduate, 2019 - 2020, 2017 - 2018
SAYILAR TEORİSİ II, Undergraduate, 2018 - 2019, 2017 - 2018, 2016 - 2017
Sayılar Teorisi I, Undergraduate, 2019 - 2020, 2017 - 2018
Lineer Cebir, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015, 2013 - 2014
GRUP TEORİSİNDEN SEÇME KONULAR, Undergraduate, 2015 - 2016
CEBİR I, Undergraduate, 2016 - 2017
DİOFANT YAKLAŞIMA GİRİŞ, Postgraduate, 2015 - 2016, 2014 - 2015
CEBİR I, Undergraduate, 2016 - 2017, 2015 - 2016, 2014 - 2015
CEBİRSEL SAYILAR TEORİSİNE GİRİŞ, Postgraduate, 2016 - 2017, 2015 - 2016
Lineer Cebir, Undergraduate, 2014 - 2015, 2013 - 2014
MATEMATİK I, Undergraduate, 2015 - 2016, 2014 - 2015
MATEMATİK I, Undergraduate, 2015 - 2016, 2014 - 2015

MATEMATİK I, Undergraduate, 2014 - 2015

Matematik I, Undergraduate, 2011 - 2012

Advising Theses

Kekeç G., Transcendence of Cantor-Like Power Series, Postgraduate, M.TEKTAŞ(Student), 2022

Kekeç G., Transcendental Numbers in Fields of Formal Power Series, Doctorate, B.CAN(Student), 2022

KEKEÇ G., Mahler'in U Sayıları, Postgraduate, B.CAN(Student), 2017

Jury Memberships

Doctorate, Doctorate, İstanbul Üniversitesi, February, 2024

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, July, 2023

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, December, 2022

Doctorate, Doctorate, İstanbul Üniversitesi, December, 2022

Doctorate, Doctorate, İstanbul Üniversitesi, July, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, July, 2022

Post Graduate, Post Graduate, İstanbul Üniversitesi, July, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, April, 2022

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, December, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, October, 2021

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, April, 2021

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, January, 2021

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Üniversitesi, October, 2020

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2020

Doctoral Examination, Doctoral Examination, İstanbul Üniversitesi, June, 2020

Post Graduate, Mahler'in U Sayıları adlı Yüksek Lisans Tezinin Savunma Jürisi, İstanbul Üniversitesi Fen Bilimleri Enstitüsü, December, 2017

Academic Staff Examination, Araştırma Görevlisi Kadrosu Sınav Jürisi, İstanbul Üniversitesi Fen Fakültesi, November, 2017

Appointment to Academic Staff-Assistant Professorship, Yardımcı Doçentlik Kadrosuna Atama Jürisi, İstanbul Üniversitesi Fen Fakültesi, October, 2015

Published journal articles indexed by SCI, SSCI, and AHCI

I. TRANSCENDENTAL RUBAN p -ADIC CONTINUED FRACTIONS

KEKEÇ G.

Bulletin of the Australian Mathematical Society, 2024 (SCI-Expanded)

II. On Mahler's U_m —numbers in fields of formal power series over finite fields

Can B., KEKEÇ G.

Bulletin Mathematique de la Societe des Sciences Mathematiques de Roumanie, vol.67, no.1, pp.79-89, 2024 (SCI-

Expanded)

- III. **On Transcendental Regular Continued Fractions**
KEKEÇ G.
MATHEMATICA SLOVACA, vol.73, no.6, pp.1399-1408, 2023 (SCI-Expanded)
- IV. **ON TRANSCENDENTAL CONTINUED FRACTIONS IN FIELDS OF FORMAL POWER SERIES OVER FINITE FIELDS**
Can B., KEKEÇ G.
BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.105, no.3, pp.392-403, 2022 (SCI-Expanded)
- V. **On the transcendental values of Cantor-like power series**
Kekec G.
PROCEEDINGS OF THE INDIAN ACADEMY OF SCIENCES-MATHEMATICAL SCIENCES, vol.132, no.1, 2022 (SCI-Expanded)
- VI. **ON MAHLER'S CLASSIFICATION OF FORMAL POWER SERIES OVER A FINITE FIELD**
Kekec G.
MATHEMATICA SLOVACA, vol.72, no.1, pp.265-273, 2022 (SCI-Expanded)
- VII. **ON SPRINDZUK'S CLASSIFICATION OF p-ADIC NUMBERS**
Bugeaud Y., Kekec G.
JOURNAL OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.111, no.2, pp.221-231, 2021 (SCI-Expanded)
- VIII. **U-NUMBERS IN FIELDS OF FORMAL POWER SERIES OVER FINITE FIELDS**
KEKEÇ G.
BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.101, no.2, pp.218-225, 2020 (SCI-Expanded)
- IX. **On Mahler's p-adic S-, T-, and U-numbers**
Bugeaud Y., Kekeç G.
ANALELE STIINTIFICE ALE UNIVERSITATII OVIDIUS CONSTANTA-SERIA MATEMATICA, vol.28, pp.81-94, 2020 (SCI-Expanded)
- X. **On Mahler's S-numbers, T-numbers, and U-numbers**
KEKEÇ G.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.49, no.1, pp.45-55, 2020 (SCI-Expanded)
- XI. **On transcendental formal power series over finite fields**
KEKEÇ G.
BULLETIN MATHEMATIQUE DE LA SOCIETE DES SCIENCES MATHEMATIQUES DE ROUMANIE, vol.63, no.4, pp.349-357, 2020 (SCI-Expanded)
- XII. **ON MAHLER'S CLASSIFICATION OF p-ADIC NUMBERS**
Bugeaud Y., Kekec G.
BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.98, no.2, pp.203-211, 2018 (SCI-Expanded)
- XIII. **SOME GENERALIZED LACUNARY POWER SERIES WITH ALGEBRAIC COEFFICIENTS FOR MAHLER'S U - NUMBER ARGUMENTS**
Kekec G.
TAIWANESE JOURNAL OF MATHEMATICS, vol.18, no.1, pp.1-26, 2014 (SCI-Expanded)
- XIV. **ON MAHLER'S p-ADIC U-m-NUMBERS**
Kekec G.
BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.88, no.1, pp.44-50, 2013 (SCI-Expanded)
- XV. **ON THE VALUES OF SOME GENERALIZED LACUNARY POWER SERIES WITH ALGEBRAIC COEFFICIENTS FOR LIOUVILLE NUMBER ARGUMENTS**
Kekec G.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.40, no.5, pp.691-702, 2011 (SCI-Expanded)
- XVI. **On some lacunary power series with algebraic coefficients and Mahler's U-numbers**
Kekec G.
APPLIED MATHEMATICS AND COMPUTATION, vol.218, no.3, pp.866-870, 2011 (SCI-Expanded)

Articles Published in Other Journals

I. **On Some Lacunary Power Series with Algebraic Coefficients for Liouville Number Arguments**

KEKEÇ G.

University of Istanbul Faculty of Science The Journal of Mathematics, Physics and Astronomy (New Series), vol.3, pp.15-32, 2011 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Sonlu Bir Cisim Üzerindeki Formel Kuvvet Serileri Cisminde Transandant Sürekli Kesirler**

Can B., Kekeç G.

34. Ulusal Matematik Sempozyumu, Dokuz Eylül Üniversitesi, İzmir, Turkey, 31 August - 03 September 2022, pp.9

II. **A method on obtaining p-adic transcendental numbers**

KEKEÇ G.

3rd International Eurasian Conference On Mathematical Sciences and Applications (IECMSA-2014), Viyana, Austria, 25 - 28 August 2014, pp.54

III. **On the algebraic independence of certain Mahler's U-numbers**

KEKEÇ G.

Erdős Centennial Conference, Budapeşte, Hungary, 1 - 05 July 2013, pp.103-105

IV. **Cebirsel Katsayılı Bazı Genelleştirilmiş Boşluk Serilerinin Mahler'in U-Sayıları Argümanlar İçin Aldığı Değerlerin Transandantlığı Hakkında Bir İnceleme**

KEKEÇ G.

XXIV. Ulusal Matematik Sempozyumu, Uludağ Üniversitesi, Bursa, Turkey, 1 - 04 September 2011, pp.72

V. **On Some Generalized Lacunary Power Series with Rational Coefficients for Mahler's U-number Arguments**

KEKEÇ G.

International Conference on Applied Analysis and Algebra, Yıldız Technical University, Istanbul-TURKEY, Turkey, 1 - 04 July 2011, pp.205

VI. **Rasyonel Katsayılı Bazı Genelleştirilmiş Boşluk Serileri ve Liouville Sayıları**

KEKEÇ G.

6. Ankara Matematik Günleri, Hacettepe Üniversitesi Matematik Bölümü, Ankara, Turkey, 1 - 04 June 2011, pp.58

VII. **On Some Lacunary Power Series with Algebraic Coefficients and Mahler's U-numbers**

KEKEÇ G.

International Congress in Honour of Professor H. M. Srivastava on his 70th Birth Anniversary, Uludag University, Bursa-TURKIYE, Turkey, 1 - 04 August 2010, pp.100

VIII. **Cebirsel Katsayılı Bazı Basit Boşluk Serilerinin Liouville Sayıları Argümanlar için Aldığı Değerlerin İncelenmesi**

KEKEÇ G.

XXIII. Ulusal Matematik Sempozyumu, Erciyes Üniversitesi Fen Fakültesi Matematik Bölümü, Kayseri, Turkey, 1 - 04 August 2010, pp.89

Supported Projects

KEKEÇ G., TUBITAK Project, Mahler'in S Ya Da T Transandant Sayıları Olarak Beliren Düzgün Sürekli Kesirler, 2021 - 2022

KEKEÇ G., BUGEAUD Y., Project Supported by Higher Education Institutions, Mahler'in p-adik S-, T-, U-sayıları, 2018 - 2020

KEKEÇ G., BUGEAUD Y., Project Supported by Higher Education Institutions, Baker'in teoreminin p-adik sayılar cisminde taşınması, 2015 - 2018

KEKEÇ G., Project Supported by Higher Education Institutions, p-adik transandant sayılar elde etmek üzerine bir yöntem, 2014 - 2014

KEKEÇ G., Project Supported by Higher Education Institutions, Bazı Mahler'in U-sayılarının cebirsel bağımsızlığı üzerine bir inceleme, 2013 - 2013

Memberships / Tasks in Scientific Organizations

Türk Matematik Derneği, Member, 2010 - Continues

Metrics

Publication: 25

Citation (WoS): 23

Citation (Scopus): 22

H-Index (WoS): 3

H-Index (Scopus): 3

Congress and Symposium Activities

34. Ulusal Matematik Sempozyumu, Dokuz Eylül Üniversitesi, Session Moderator, İzmir, Turkey, 2022

3rd International Eurasian Conference On Mathematical Sciences and Applications (IECMSA-2014), Viyana, AVUSTURYA, Attendee, Wien, Austria, 2014

Erdős Centennial Conference, Budapest/Hungary, Attendee, Budapeşte, Hungary, 2013

XXIV. Ulusal Matematik Sempozyumu, Uludağ Üniversitesi, Attendee, Bursa, Turkey, 2011

International Conference on Applied Analysis and Algebra, Yıldız Technical University, Attendee, İstanbul, Turkey, 2011

6. Ankara Matematik Günleri, Hacettepe Üniversitesi Matematik Bölümü, Attendee, Ankara, Turkey, 2011

International Congress in Honour of Professor H. M. Srivastava on his 70th Birth Anniversary, Uludag University, Attendee, Bursa, Turkey, 2010

XXIII. Ulusal Matematik Sempozyumu, Erciyes Üniversitesi Fen Fakültesi Matematik Bölümü, Attendee, Kayseri, Turkey, 2010

Invited Talks

Yıldız Teknik Üniversitesi Bilim ve Matematik Kulübü Math Plus Etkinliği: Formel Sayılar, Seminar, Yıldız Teknik Üniversitesi, Turkey, November 2023

İstanbul Üniversitesi Öğretim Üyelerinden seminerler: p-adik transandant sayılar , Seminar, İstanbul Üniversitesi, Turkey, November 2022

11. Bahar Matematik Buluşması: Hülya ŞENKON ve Matematik, Seminar, İstanbul Üniversitesi, Turkey, October 2022

Transandant Sayılar, Seminar, İstanbul Üniversitesi, Turkey, March 2018

Mahler'in U Sayıları ve Boşluk Serileri, Seminar, Sabancı Üniversitesi, Turkey, November 2016

Orhan Şerafettin İcen ve Transandant Sayılar Teorisi, Seminar, İstanbul Üniversitesi, Turkey, May 2016

Boşluk serilerinin transandant noktalarda aldığı değerlerin incelenmesi, Seminar, Düzce Üniversitesi, Turkey, May 2014

İlk Transandant Sayı Örnekleri Liouville Sayıları ve Transandant Sayıların Mahler Sınıflandırması, Seminar, Mimar Sinan Güzel Sanatlar Üniversitesi, Turkey, December 2013

Mahler and Koksma Classification of Complex Numbers, Seminar, Johann Wolfgang Goethe-Universitaet Frankfurt am Main, Germany, February 2009

Scholarships

Doktora Sonrası Arařtırma Bursu, YOK, 2012 - 2012

Yurt İçi Doktora Burs Programı, TUBITAK, 2006 - 2011

Doktora Arařtırma Bursu, Foundation, 2009 - 2009