

## Assoc. Prof. Gülcan KEKEÇ

### Personal Information

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### Education Information

Doctorate, İstanbul Üniversitesi, Institute of Graduate Studies In Sciences, Matematik Anabilim Dalı, Turkey 2006 - 2011

Post Graduate, İstanbul Üniversitesi, Institute of Graduate Studies In Sciences, Matematik Anabilim Dalı, Turkey 2003 - 2006

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

Under Graduate, İstanbul Üniversitesi, Faculty of Science, Department of Mathematics, Turkey 1998 - 2002

### Foreign Languages

English, C1 Advanced

French, A2 Elementary

German, B1 Intermediate

### Dissertations

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

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

### Research Areas

Mathematics, Number Theory, Natural Sciences

### Academic Titles / Tasks

Associate Professor, İstanbul University, Faculty Of Science, Department Of Mathematics, 2013 - Continues

Other, Université Strasbourg I, Mathematics Institute, Mathematics Institute, 2018 - 2018

Research Assistant, İstanbul Üniversitesi, 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

## Academic and Administrative Experience

Head of Department, Istanbul University, Faculty Of Science, Department Of Mathematics, 2020 - Continues

İstanbul Üniversitesi, Faculty of Science, Department of Mathematics, 2017 - 2018

İstanbul Üniversitesi, Faculty of Science, Department of Mathematics, 2013 - 2018

## Courses

Number Theory II, Under Graduate, 2019 - 2020, 2020 - 2021

Number Theory II, Under Graduate, 2019 - 2020, 2020 - 2021

Introduction to Diophantine Approximation, Post Graduate, 2020 - 2021

Abstract Mathematics II, Under Graduate, 2019 - 2020, 2020 - 2021

Abstract Mathematics II, Under Graduate, 2019 - 2020, 2020 - 2021

NUMBER THEORY, Under Graduate, 2020 - 2021

Number Theory I, Under Graduate, 2020 - 2021

Number Theory II, Under Graduate, 2019 - 2020

Introduction to the theory of algebraic numbers, Post Graduate, 2020 - 2021

Algebra I, Under Graduate, 2020 - 2021

Abstract Mathematics I, Under Graduate, 2020 - 2021

Matematik I, Under Graduate, 2019 - 2020

Soyut Matematik II, Under Graduate, 2017 - 2018, 2018 - 2019

Transandant Sayılar Teorisi, Doctorate, 2017 - 2018, 2018 - 2019

Mathematics I, Under Graduate, 2019 - 2020

Soyut Matematik I, Under Graduate, 2017 - 2018, 2019 - 2020

CEBİRSEL SAYILARLA TRANSANDANT SAYILARA YAKLAŞIM, Doctorate, 2014 - 2015, 2019 - 2020

SAYILAR TEORİSİ II, Under Graduate, 2016 - 2017, 2017 - 2018, 2018 - 2019

Sayılar Teorisi I, Under Graduate, 2017 - 2018, 2019 - 2020

Lineer Cebir, Under Graduate, 2013 - 2014, 2014 - 2015, 2015 - 2016, 2016 - 2017

GRUP TEORİSİNDEN SEÇME KONULAR, Under Graduate, 2015 - 2016

CEBİR I, Under Graduate, 2016 - 2017

DİOFANT YAKLAŞIMA GİRİŞ, Post Graduate, 2014 - 2015, 2015 - 2016

CEBİR I, Under Graduate, 2014 - 2015, 2015 - 2016, 2016 - 2017

CEBİRSEL SAYILAR TEORİSİNE GİRİŞ, Post Graduate, 2015 - 2016, 2016 - 2017

Lineer Cebir, Under Graduate, 2013 - 2014, 2014 - 2015

MATEMATİK I, Under Graduate, 2014 - 2015, 2015 - 2016

MATEMATİK I, Under Graduate, 2014 - 2015, 2015 - 2016

MATEMATİK I, Under Graduate, 2014 - 2015

Matematik I, Under Graduate, 2011 - 2012

Matematik I, Under Graduate, 2011 - 2012

## Advising Theses

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

## Jury Memberships

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 Academic Staff, Yardımcı Doçentlik Kadrosuna Atama Jürisi, İstanbul Üniversitesi Fen Fakültesi, October, 2015

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- I. **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 (Journal Indexed in SCI)
- II. **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 (Journal Indexed in SCI)
- III. **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 (Journal Indexed in SCI)
- IV. **On transcendental formal power series over finite fields**  
KEKEÇ G.  
BULLETIN MATHEMATIQUE DE LA SOCIETE DES SCIENCES MATHÉMATIQUES DE ROUMANIE, vol.63, no.4, pp.349-357, 2020 (Journal Indexed in SCI)
- V. **ON MAHLER'S CLASSIFICATION OF p-ADIC NUMBERS**  
Bugeaud Y., Kekeç G.  
BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.98, no.2, pp.203-211, 2018 (Journal Indexed in SCI)
- VI. **SOME GENERALIZED LACUNARY POWER SERIES WITH ALGEBRAIC COEFFICIENTS FOR MAHLER'S U - NUMBER ARGUMENTS**  
Kekeç G.  
TAIWANESE JOURNAL OF MATHEMATICS, vol.18, no.1, pp.1-26, 2014 (Journal Indexed in SCI)
- VII. **ON MAHLER'S p-ADIC U-m-NUMBERS**  
Kekeç G.  
BULLETIN OF THE AUSTRALIAN MATHEMATICAL SOCIETY, vol.88, no.1, pp.44-50, 2013 (Journal Indexed in SCI)
- VIII. **On some lacunary power series with algebraic coefficients and Mahler's U-numbers**  
Kekeç G.  
APPLIED MATHEMATICS AND COMPUTATION, vol.218, no.3, pp.866-870, 2011 (Journal Indexed in SCI)
- IX. **ON THE VALUES OF SOME GENERALIZED LACUNARY POWER SERIES WITH ALGEBRAIC COEFFICIENTS FOR LIOUVILLE NUMBER ARGUMENTS**  
Kekeç G.  
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.40, no.5, pp.691-702, 2011 (Journal Indexed in SCI)

## 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 (National Refreed University Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **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
- II. **On the algebraic independence of certain Mahler's U-numbers**  
KEKEÇ G.  
Erdős Centennial Conference, Budapeşte, Hungary, 1 - 05 July 2013, pp.103-105
- III. **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
- IV. **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
- V. **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
- VI. **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
- VII. **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., 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

## Edit Congress and Symposium Activities

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

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

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

## Citations

Total Citations (WOS):7

h-index (WOS):1

## Invited Talks

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

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

Orhan Şerafettin İçen 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 Araştırma Bursu, YOK, 2012 - 2012

Yurt İçi Doktora Burs Programı, TUBITAK, 2006 - 2011

Doktora Araştırma Bursu, Foundation, 2009 - 2009

## Awards

KEKEÇ G., Tübitak-Ulakbim Yayın Teşvik (Uluslararası Bilimsel Yayınları Teşvik Programı (UBYT)), Tübitak-Ulakbim, March 2014

KEKEÇ G., Tübitak-Ulakbim Yayın Teşvik (Uluslararası Bilimsel Yayınları Teşvik Programı (UBYT)), Tübitak-Ulakbim, December 2012