

## Asst. Prof. SEÇİL GERGÜN

### Personal Information

**Email:** secil.gergun@deu.edu.tr

**Web:** <https://avesis.deu.edu.tr/secil.gergun>

### International Researcher IDs

ScholarID: UQNM1SYAAAAJ

ORCID: 0000-0003-0952-3070

Publons / Web Of Science ResearcherID: P-7550-2019

ScopusID: 6507041448

Yoksis Researcher ID: 143420

### Education Information

Doctorate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Matematik (Dr), Turkey  
1999 - 2003

Postgraduate, Ihsan Dogramaci Bilkent University, Institute Of Engineering And Natural Sciences, Matematik (Yl) (Tezli),  
Turkey 1997 - 1999

Undergraduate, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Mathematics, Turkey 1991 - 1997

### Foreign Languages

English, C1 Advanced

### Certificates, Courses and Trainings

Vocational Training, ÖĞRENCİ MOTİVASYONUNU ARTIRMA, Dokuz Eylül Üniversitesi Akademik ve Kişisel Gelişimi  
Destekleme Uygulama ve Araştırma Merkezi (AKADEMİ-DE), 2022

Other, Yazılım Destekli Zaman Yönetimi, Dokuz Eylül Üniversitesi Akademik ve Kişisel Gelişimi Destekleme Uygulama ve  
Araştırma Merkezi (AKADEMİ-DE), 2022

### Dissertations

Doctorate, Representations of functions harmonic in the upper half-plane and their applications, Ihsan Dogramaci  
Bilkent University, Institute Of Engineering And Natural Sciences, 2003

Postgraduate, Factorization in Hardy and Nevanlinna classes, Ihsan Dogramaci Bilkent University, Institute Of  
Engineering And Natural Sciences, 1999

### Research Areas

Functional Analysis, Fourier Analysis, Functions of a Complex Variable, Operators, Abstract Harmonic Analysis, Natural  
Sciences

## Academic Titles / Tasks

Assistant Professor, Dokuz Eylul University, Fen Fakültesi, Matematik Bölümü, 2013 - Continues  
Assistant Professor, Cankaya University, Faculty Of Arts And Sciences, Department Of Mathematics And Computer, 2005 - 2013  
Lecturer, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Mathematics, 2003 - 2005  
Visiting Lecturer, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Mathematics, 2002 - 2003  
Research Assistant, Ihsan Dogramaci Bilkent University, Faculty Of Science, Department Of Mathematics, 1997 - 2003

## Academic and Administrative Experience

Bölüm Özdeğerlendirme Komisyonu Üyesi, Dokuz Eylul University, Fen Fakültesi, Matematik Bölümü, 2021 - Continues  
Bölüm FEDEK ve Akreditasyon Komisyonu Üyesi, Dokuz Eylul University, Fen Fakültesi, Matematik Bölümü, 2021 - Continues  
Deputy Head of Department, Dokuz Eylul University, Fen Fakültesi, Matematik Bölümü, 2018 - 2020  
Deputy Head of Department, Cankaya University, Faculty Of Arts And Sciences, Department Of Mathematics And Computer, 2012 - 2013  
Fakülte Kurulu Üyesi, Cankaya University, Faculty Of Arts And Sciences, Department Of Mathematics And Computer, 2011 - 2013  
Erasmus Program Department Coordinator, Cankaya University, Faculty Of Arts And Sciences, Department Of Mathematics And Computer, 2009 - 2012  
Farabi Program Department Coordinator, Cankaya University, Faculty Of Arts And Sciences, Department Of Mathematics And Computer, 2009 - 2012

## Courses

Project, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021, 2018 - 2019, 2015 - 2016  
Complex Analysis, Doctorate, 2023 - 2024, 2018 - 2019, 2015 - 2016, 2014 - 2015  
Complex Calculus, Undergraduate, 2023 - 2024, 2021 - 2022, 2020 - 2021  
Calculus I, Undergraduate, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Calculus II, Undergraduate, 2022 - 2023, 2019 - 2020, 2018 - 2019  
Real Analysis, Postgraduate, 2023 - 2024, 2016 - 2017  
Graduation Project, Undergraduate, 2023 - 2024  
Calculus II, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019, 2017 - 2018  
Calculus II, Undergraduate, 2020 - 2021  
Calculus I, Undergraduate, 2021 - 2022, 2019 - 2020, 2018 - 2019  
Calculus I, Undergraduate, 2020 - 2021  
Measure Theory and Lebesgue Integral, Undergraduate, 2020 - 2021  
Complex Calculus, Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014  
M.Sc. Seminar, Postgraduate, 2017 - 2018, 2016 - 2017  
Complex Calculus, Undergraduate, 2017 - 2018, 2015 - 2016, 2014 - 2015, 2013 - 2014  
M.Sc. Research, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016  
M.Sc. Thesis, Postgraduate, 2017 - 2018, 2016 - 2017, 2015 - 2016  
Matematik II, Undergraduate, 2016 - 2017  
Matematik I, Undergraduate, 2017 - 2018, 2014 - 2015, 2013 - 2014  
Matematik II, Undergraduate, 2016 - 2017  
Functional Analysis, Doctorate, 2016 - 2017  
Matematik I, Undergraduate, 2017 - 2018  
Gerçel Analiz, Undergraduate, 2017 - 2018

Karmaşık Analiz, Undergraduate, 2016 - 2017  
Matematik I, Undergraduate, 2016 - 2017  
Matematik II, Undergraduate, 2015 - 2016  
Fundamentals of Mathematics I, Undergraduate, 2015 - 2016  
Analysis II, Undergraduate, 2014 - 2015, 2013 - 2014  
Introduction to Functional Analysis, Undergraduate, 2015 - 2016  
Calculus, Undergraduate, 2015 - 2016  
Analysis I, Undergraduate, 2014 - 2015, 2013 - 2014  
Calculus for Engineering II, Undergraduate, 2012 - 2013, 2010 - 2011, 2008 - 2009  
Complex Calculus, Undergraduate, 2012 - 2013, 2011 - 2012, 2009 - 2010  
Introduction to Probability and Statistics, Undergraduate, 2012 - 2013  
Calculus for Engineering I, Undergraduate, 2012 - 2013, 2010 - 2011, 2009 - 2010, 2008 - 2009  
Introduction to Probability and Statistics, Undergraduate, 2011 - 2012, 2009 - 2010  
Functional Analysis, Undergraduate, 2011 - 2012  
Advanced Calculus II, Undergraduate, 2010 - 2011, 2009 - 2010, 2008 - 2009  
Basic Linear Algebra, Undergraduate, 2011 - 2012, 2010 - 2011  
Discrete Mathematics, Undergraduate, 2011 - 2012  
Calculus II, Undergraduate, 2009 - 2010  
Advanced Calculus I, Undergraduate, 2010 - 2011  
Calculus for Engineering II, Undergraduate, 2008 - 2009, 2005 - 2006  
Calculus I, Undergraduate, 2009 - 2010  
Complex Analysis II, Undergraduate, 2007 - 2008, 2006 - 2007  
Advanced Calculus II, Undergraduate, 2007 - 2008, 2006 - 2007, 2005 - 2006  
Advanced Calculus I, Undergraduate, 2007 - 2008, 2006 - 2007, 2005 - 2006  
Complex Analysis I, Undergraduate, 2007 - 2008, 2006 - 2007  
Statistics for Social Sciences, Undergraduate, 2004 - 2005, 2003 - 2004, 2002 - 2003  
Elementary Business Statistics, Undergraduate, 2004 - 2005, 2003 - 2004  
Calculus for Engineering I, Undergraduate, 2005 - 2006  
Introduction to Linear Algebra, Undergraduate, 2002 - 2003  
Introduction to Calculus II, Undergraduate, 2003 - 2004, 2002 - 2003

## **Jury Memberships**

Post Graduate, Post Graduate, Dokuz Eylül Üniversitesi, September, 2022  
Doctorate, Doctorate, Dokuz Eylül Üniversitesi, August, 2022  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, July, 2022  
Post Graduate, Post Graduate, Dokuz Eylül Üniversitesi, August, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, July, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, February, 2021  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2020  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, July, 2019  
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Dokuz Eylül Üniversitesi, January, 2019  
Doctoral Examination, Doctoral Examination, Dokuz Eylül Üniversitesi, August, 2018  
Doctorate, Doctorate, İhsan Doğramacı Bilkent Üniversitesi, August, 2013

Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, August, 2010  
Doctorate, Doctorate, İhsan Doğramacı Bilkent Üniversitesi, August, 2008  
Doctorate, Doctorate, İhsan Doğramacı Bilkent Üniversitesi, August, 2008  
Doctorate, Doctorate, İhsan Doğramacı Bilkent Üniversitesi, November, 2006  
Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, September, 2006  
Post Graduate, Post Graduate, İhsan Doğramacı Bilkent Üniversitesi, September, 2006

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

- I. **Generalized polynomials and their unification and extension to discrete calculus**  
Cichon M., Silindir Yantir B., Yantir A., Gergün S.  
SYMMETRY, vol.2023, no.15, pp.1-26, 2023 (SCI-Expanded)
- II. **Power function and binomial series on  $T-(q,T-h)$**   
Gergün S., Silindir Yantr B., Yantir A.  
APPLIED MATHEMATICS IN SCIENCE AND ENGINEERING, vol.31, no.1, 2023 (SCI-Expanded)
- III. **Harmonic Besov spaces on the ball**  
Gergün S., Kaptanoğlu H. T., Üreyen A. E.  
INTERNATIONAL JOURNAL OF MATHEMATICS, vol.27, no.9, 2016 (SCI-Expanded)
- IV. **Reproducing kernels for harmonic Besov spaces on the ball**  
Gergün S., Kaptanoğlu H. T., Üreyen A. E.  
COMPTEs RENDUS MATHEMATIQUE, vol.347, no.13-14, pp.735-738, 2009 (SCI-Expanded)
- V. **On a criterion of belonging to the the Hardy class  $H_p(C)$  up to an exponential factor**  
Gergün S., Ostrovskii I. V.  
JOURNAL OF MATHEMATICAL PHYSICS, ANALYSIS, GEOMETRY, vol.10, no.4, pp.490-497, 2003 (SCI-Expanded)
- VI. **On the Poisson representation of a function harmonic in the upper half-plane**  
Gergün S., Ostrovski I.  
JOURNAL OF MATHEMATICAL PHYSICS, ANALYSIS, GEOMETRY, vol.9, no.2, pp.243-248, 2002 (SCI-Expanded)
- VII. **On the Titchmarsh convolution theorem**  
Gergün S., Ostrovskii I., Ulanovskii A.  
ARKIV FOR MATEMATIK, vol.40, no.1, pp.55-71, 2002 (SCI-Expanded)
- VIII. **On the Poisson Representation of a Function Harmonic in the Upper Half-Plane**  
Gergün S., Ostrovski I.  
COMPUTATIONAL METHODS AND FUNCTION THEORY, vol.2, pp.191-213, 2002 (SCI-Expanded)
- IX. **On the Titchmarsh convolution theorem**  
GERGÜN S., Ostrovskii I., Ulanovskii A.  
COMPTEs RENDUS DE L ACADEMIE DES SCIENCES SERIE I-MATHEMATIQUE, vol.331, no.1, pp.41-46, 2000 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Analysis on  $\alpha$ -time scales and its applications to Cauchy-Euler equation**  
Silindir Yantr B., Gergün S., Yantr A.  
Applied Mathematics and Information Sciences, vol.18, no.5, pp.1051-1074, 2024 (Scopus)

## Refereed Congress / Symposium Publications in Proceedings

- I.  **$(q, h)$ -Zaman Skalasında Cauchy-Euler Denklemi**  
Yantr A., Gergün S., Silindir Yantr B.

34. Ulusal Matematik Sempozyumu, İzmir, Turkey, 31 August - 03 September 2022, pp.1
- II. **(q,h)-Zaman Skalasında Kuvvet Fonksiyonu**  
Gergün S., Silindir Yantr B., Yantr A.  
34. Ulusal Matematik Sempozyumu, İzmir, Turkey, 31 August - 03 September 2022, pp.62
- III. **"Harmonic Besov spaces on the real unit balls: Reproducing kernels and Bergman projections"**,  
Gergün S., Kaptanoğlu H. T., Üreyen A. E.  
MECANO 2009 (Modern Complex Analysis and Operator Theory and Applications, IV), Madrid, Spain, 17 - 21 June 2009, pp.1
- IV. **"Holomorphic and harmonic Besov spaces on unit balls"**  
Gergün S., Kaptanoğlu H. T., Üreyen A. E.  
CMFT 2009 (6th International Conference on Computational Methods and Function Theory), Ankara, Turkey, 8 - 12 June 2009, pp.16
- V. **On a criterion of belonging to the Hardy space  $H_p(C^+)$  up to an exponential factor**  
Gergün S.  
Analysis and its Applications, Mersin, Turkey, 7 - 11 September 2004, pp.54
- VI. **On functions harmonic in a half-plane**  
Gergün S.  
International Akhiezer Centenary Conference in Theory of Functions and Mathematical Physics, Kharkiv, Ukraine, 13 - 17 August 2001, pp.34

## Supported Projects

Gergün S., Kaptanoğlu H. T., Üreyen A. E., TUBITAK Project, Birim Yuvarda Harmonik Fonksiyon Uzayları, 2008 - 2010

## Activities in Scientific Journals

Çankaya University Journal of Science and Engineering, Assistant Editor/Section Editor, 2012 - 2013  
Çankaya University Journal of Science and Engineering, Publication Committee Member, 2010 - 2013  
Çankaya University Journal of Arts and Sciences, Publication Committee Member, 2009 - 2010  
Çankaya University Journal of Arts and Sciences, Editor, 2009 - 2010

## Scientific Refereeing

MONATSFESTE FÜR MATHEMATIK, Journal Indexed in SCI-E, June 2017

## Tasks In Event Organizations

Gergün S., Karakılıç S., GÜLLÜSAÇ M., İzmir Matematik Günleri III, Workshop Organization, İzmir, Turkey, Ekim 2020  
Gergün S., 8. Ankara Matematik Günleri, Workshop Organization, Ankara, Turkey, Haziran 2014  
Gergün S., CMFT 2009 (6th International Conference on Computational Methods and Function Theory), Workshop Organization, Ankara, Turkey, Haziran 2009

## Metrics

Publication: 16  
Citation (WoS): 31  
Citation (Scopus): 32

H-Index (WoS): 2

H-Index (Scopus): 2

## Congress and Symposium Activities

IX. Kadın Matematikçiler Derneği Çalıştayı, Audience, İzmir, Turkey, 2024

IMSSRS (International Mathematics and Statistics Student Research Symposium), Audience, Virginia, United States Of America, 2024

İzmir Mathematics days V, Audience, İzmir, Turkey, 2023

34. ULUSAL MATEMATİK SEMPOZYUMU, Audience, İzmir, Turkey, 2022

34. ULUSAL MATEMATİK SEMPOZYUMU, Session Moderator, İzmir, Turkey, 2022

İzmir Matematik Günleri IV, Audience, İzmir, Turkey, 2022

İzmir Matematik Günleri III, Audience, İzmir, Turkey, 2020

İzmir Matematik Günleri III, Session Moderator, İzmir, Turkey, 2020

III.Kadın Matematikçiler Derneği Çalıştayı, Audience, İzmir, Turkey, 2016

III.Kadın Matematikçiler Derneği Çalıştayı, Session Moderator, İzmir, Turkey, 2016

Function Theory and Complex Variables, Audience, İzmir, Turkey, 2013

Kadın ve Bilim-1, Audience, Ankara, Turkey, 2012

Modern Complex Analysis and Operator Theory and Applications, Audience, Madrid, Spain, 2009

6th International Conference on Computational Methods and Function Theory, Audience, Ankara, Turkey, 2009

6th International ISAAC Congress, Audience, Ankara, Turkey, 2007

International Workshop on Analysis and its Applications, Audience, Mersin, Turkey, 2004

International Akhiezer Centenary Conference in Theory of Functions and Mathematical Physics, Audience, Kharkiv, Ukraine, 2001

## Scholarships

TA Scholarship, University, 1997 - 2003

Full Scholarship, University, 1991 - 1997

## Awards

Gergün S., Orhan Alisbah Awards, Bilsel Alisbah , October 2000