

## Assoc. Prof. BAĞDAGÜL KARTAL ERDOĞAN

### Personal Information

**Office Phone:** +90 352 207 6666 Extension: 33227

**Email:** bagdagulkartal@erciyes.edu.tr

**Web:** <https://avesis.erciyes.edu.tr/bagdagulkartal/cv>

**Address:** Erciyes Üniversitesi Fen Fakültesi Matematik Bölümü K3 08 Melikgazi/KAYSERİ

### International Researcher IDs

ScholarID: kD51f1EAAAAJ

ORCID: 0000-0001-6223-0838

Publons / Web Of Science ResearcherID: AAA-6313-2021

ScopusID: 57195299906

Yoksis Researcher ID: 22404

### Education Information

Doctorate, Erciyes University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2014 - 2019

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2012 - 2014

Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 2009 - 2012

### Foreign Languages

English, B2 Upper Intermediate

### Certificates, Courses and Trainings

Personal Evolution, Girişimcilik, Joven Academia, 2022

Vocational Training, Elsevier Turkey Webinar-Scopus Author Profile Management, Tübitak Ulakbim Ekual, 2021

Education Management and Planning, Fedek Değerlendirici Eğitimi, Fedek Öğretim Programları Değerlendirme ve Akreditasyon Derneği, 2020

Vocational Training, Web of Science Training, Erciyes Üniversitesi, 2019

Project Management, Fen ve Mühendislik Bilimlerinde ARDEB Fonlarına Yönelik Uygulamalı Proje Yazma Eğitimi, Erciyes Teknoloji Transfer Ofisi, 2017

Education Management and Planning, Etkin Hızlı Okuma Eğitimi, ALGE, 2012

Education Management and Planning, Pedagojik Formasyon Eğitim Programı, ANKÜSEM, 2012

IT, Veritabanı Kullanımı ve Oracle 10g, İDA BİLİŞİM, 2009

IT, Network Security, Bilge Adam, 2009

### Dissertations

Doctorate, Genelleştirilmiş Mutlak Matris Toplanabilme Metotları, Erciyes University, Fen Fakültesi, Matematik, 2019

Postgraduate, q-baskakov-kantorovich operatörlerinin istatistiksel yaklaşım özellikleri, Gazi University, Fen Bilimleri Enstitüsü, Matematik, 2014

## Research Areas

Mathematics, Sequences, Series, Summability, Natural Sciences

## Academic Titles / Tasks

Associate Professor, Erciyes University, Fen Fakültesi, Matematik, 2023 - Continues

Research Assistant PhD, Erciyes University, Fen Fakültesi, Matematik, 2019 - 2023

Research Assistant, Erciyes University, Fen Fakültesi, Matematik, 2013 - 2019

## Courses

Mühendislik Matematiği, Undergraduate, 2022 - 2023

Fonksiyonel Analiz II, Undergraduate, 2022 - 2023

Matematik II, Undergraduate, 2022 - 2023

Matematik I, Undergraduate, 2022 - 2023

Lineer Cebir, Undergraduate, 2021 - 2022

Matematik, Associate Degree, 2022 - 2023, 2021 - 2022

Fonksiyonel Analiz I, Undergraduate, 2022 - 2023

Cümleler Teorisi II, Undergraduate, 2021 - 2022, 2020 - 2021

Reel Analiz, Undergraduate, 2021 - 2022

Sayısal Yöntemler, Undergraduate, 2021 - 2022

Matematik II, Undergraduate, 2021 - 2022, 2020 - 2021

Lineer Cebir, Undergraduate, 2022 - 2023, 2021 - 2022

Analiz IV, Undergraduate, 2021 - 2022

Matematik, Undergraduate, 2021 - 2022

Fonksiyonel Analiz, Undergraduate, 2021 - 2022

Cümleler Teorisi I, Undergraduate, 2021 - 2022

## Jury Memberships

Post Graduate, Post Graduate, Erciyes Üniversitesi, June, 2024

Post Graduate, Post Graduate, Sivas Cumhuriyet Üniversitesi, April, 2024

Post Graduate, Post Graduate, Erciyes Üniversitesi, October, 2023

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

- I. **An Extension of a Theorem on Cesàro Summability**  
KARTAL B.  
Numerical Functional Analysis and Optimization, vol.42, pp.474-479, 2021 (SCI-Expanded)
- II. **Absolute matrix summability via almost increasing sequence**  
Özarслан H., Kartal B.  
QUAESTIONES MATHEMATICAE, vol.43, pp.1477-1485, 2020 (SCI-Expanded)
- III. **A generalization of a theorem of Bor**  
Ozarслан H., Kartal B.  
JOURNAL OF INEQUALITIES AND APPLICATIONS, 2017 (SCI-Expanded)

## Articles Published in Other Journals

- I. **A Note on Summability of Infinite Series**  
Özarslan H., Kartal Erdoğan B.  
Earthline Journal of Mathematical Sciences, vol.14, no.4, pp.589-594, 2024 (Peer-Reviewed Journal)
- II. **Necessary and sufficient conditions for the inclusion relation between two summability methods**  
Kartal B.  
ANNALES UNIVERSITATIS PAEDAGOGICAE CRACOVENSIS. STUDIA MATHEMATICA, vol.22, pp.5-11, 2023 (ESCI)
- III. **On Necessary and Sufficient Conditions for Absolute Matrix Summability**  
Kartal B.  
Earthline Journal of Mathematical Sciences, vol.12, no.1, pp.1-12, 2023 (Peer-Reviewed Journal)
- IV. **Applications of Quasi Power Increasing Sequences to Infinite Series**  
Özarslan H., Şakar M. Ö., Kartal B.  
Journal of Applied Mathematics and Informatics, vol.41, no.1, pp.1-9, 2023 (ESCI)
- V. **Cesaro Summability Involving  $\delta$ -Quasi-Monotone and Almost Increasing Sequences**  
Kartal B.  
Journal of New Theory, vol.41, pp.94-99, 2022 (Peer-Reviewed Journal)
- VI. **Factors for Generalized Matrix Summability**  
Kartal B.  
Erciyes Üniversitesi Fen Bilimleri Enstitüsü Dergisi, vol.37, no.3, pp.462-467, 2021 (Peer-Reviewed Journal)
- VII. **An Application of Almost Increasing Sequences**  
Kartal B.  
Russian Mathematics, vol.65, no.11, pp.14-17, 2021 (ESCI)
- VIII. **Generalized Absolute Riesz Summability of Infinite Series and Fourier Series**  
Kartal B.  
International Journal of Analysis and Applications, vol.18, no.6, pp.957-964, 2020 (ESCI)
- IX. **On an Extension of Absolute Summability**  
Kartal B.  
Konuralp Journal of Mathematics, vol.7, pp.433-437, 2019 (Peer-Reviewed Journal)
- X. **A Theorem on Absolute Summability of Infinite Series**  
Kartal B.  
Cumhuriyet Science Journal, vol.40, pp.563-569, 2019 (Peer-Reviewed Journal)
- XI. **New results for almost increasing sequences**  
Kartal B.  
ANNALES UNIVERSITATIS PAEDAGOGICAE CRACOVENSIS-STUDIA MATHEMATICA, vol.18, pp.85-91, 2019 (ESCI)
- XII. **ON THE GENERAL METHOD OF SUMMABILITY**  
Özarslan H., Kartal B.  
JOURNAL OF MATHEMATICAL ANALYSIS, vol.9, pp.36-43, 2018 (ESCI)
- XIII. **On Generalized Absolute Riesz Summability Method**  
Kartal B.  
COMMUNICATIONS IN MATHEMATICS AND APPLICATIONS, vol.8, pp.359-364, 2017 (ESCI)

## Refereed Congress / Symposium Publications in Proceedings

- I. **On Quasi Monotone Sequences**  
Özarslan H., Kartal Erdoğan B.  
8th INTERNATIONAL CONFERENCE ON MATHEMATICS "An Istanbul Meeting for World Mathematicians", İstanbul, Turkey, 9 - 11 July 2024, pp.1-6
- II. **A Theorem on Absolute Riesz Summability**  
Özarslan H., Kartal Erdoğan B.

7th International Hybrid Conference on Mathematical Advances and Applications (ICOMAA-2024), İstanbul, Turkey, 8 - 11 May 2024, pp.1-5

- III. **Some Results for Equivalence of Matrix Summability Methods**  
Özarslan H., Kartal B.  
7th INTERNATIONAL CONFERENCE ON MATHEMATICS “An Istanbul Meeting for World Mathematicians”, İstanbul, Turkey, 11 - 13 July 2023, pp.1-8
- IV. **On A General Inclusion Theorem**  
Özarslan H., Kartal B.  
9th ifs and contemporary mathematics and engineering conference, Mersin, Turkey, 8 - 11 July 2023, pp.9-14
- V. **Applications of Infinite Series and Trigonometric Fourier Series**  
Özarslan H., Kartal B.  
11th International Eurasian Conference on Mathematical Sciences and Applications , İstanbul, Turkey, 29 August - 01 September 2022, vol.5, no.2, pp.226-230
- VI. **A general factor theorem on matrix summability**  
Kartal B.  
8th International IFS and Contemporary Mathematics Conference, İstanbul, Turkey, 16 - 19 June 2022, pp.1-6
- VII. **A Factor Theorem for Infinite Series**  
Kartal B.  
2. INTERNATIONAL MARMARA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, İstanbul, Turkey, 19 - 20 April 2022, pp.620-623
- VIII. **On Summability of Infinite Series and Fourier Series**  
Özarslan H., Şakar M. Ö., Kartal B.  
5th INTERNATIONAL ONLINE CONFERENCE ON MATHEMATICS “An Istanbul Meeting for World Mathematicians”, İstanbul, Turkey, 1 - 03 December 2021, pp.512-519
- IX. **On General Results on Absolute Matrix Summability Factors**  
Özarslan H., Kartal B., Şakar M. Ö.  
5th INTERNATIONAL ONLINE CONFERENCE ON MATHEMATICS “An Istanbul Meeting for World Mathematicians”, İstanbul, Turkey, 1 - 03 December 2021, pp.185-193
- X. **Applications of delta-Quasi-Monotone Sequences to Infinite Series and Fourier Series**  
Özarslan H., Kartal B.  
1. INTERNATIONAL MARMARA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, İstanbul, Turkey, 21 - 22 August 2021, pp.206-210
- XI. **A General Theorem on Matrix Transformations**  
Özarslan H., Kartal B.  
1. INTERNATIONAL MARMARA SCIENTIFIC RESEARCH AND INNOVATION CONGRESS, İstanbul, Turkey, 21 - 22 August 2021, pp.201-205
- XII. **A General Theorem Involving Quasi Power Increasing Sequences**  
ÖZARSLAN H., KARTAL B., ŞAKAR M. Ö.  
4th International Conference on Mathematics “An Istanbul Meeting for World Mathematicians”, İstanbul, Turkey, 27 - 30 October 2020, pp.12-17
- XIII. **Applications of Almost Increasing Sequences to Infinite Series**  
ÖZARSLAN H., ŞAKAR M. Ö., KARTAL B.  
4th International Conference on Mathematics “An Istanbul Meeting for World Mathematicians”, İstanbul, Turkey, 27 - 30 October 2020, pp.110-116
- XIV. **On Quasi  $\sigma$  - Power Increasing Sequences**  
Özarslan H., Kartal B.  
2. ULUSLARARASI ERCİYES BİLİMSEL ARAŞTIRMALAR KONGRESİ, Kayseri, Turkey, 27 - 29 September 2019, pp.329-336
- XV. **A New Study On Absolute Matrix Summability Method**  
Özarslan H., Kartal B.  
2. ULUSLARARASI ERCİYES BİLİMSEL ARAŞTIRMALAR KONGRESİ, Kayseri, Turkey, 27 - 29 September 2019,

pp.337-342

- XVI. **A New Theorem on Boundedness and Absolute Summability**  
Özarslan H., Kartal B.  
7th International Eurasian Conference on Mathematical Sciences and Applications, Kyiv, Ukraine, 28 - 31 August 2018, pp.63
- XVII. **A New General Summability Method**  
Özarslan H., Kartal B.  
3rd International Conference on Computational Mathematics and Engineering Sciences, Girne, Cyprus (Kktc), 4 - 06 May 2018, pp.82
- XVIII. **Toplanabilmenin Pozitif Normal Matris Üzerine Uygulamaları**  
ÖZARSLAN H., KARTAL B.  
13. Ankara Matematik Günleri, Ankara, Turkey, 27 - 28 April 2018, pp.10
- XIX. **A New Theorem on Boundedness and Absolute Summability**  
Ozarslan H., KARTAL B.  
7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), Kyiv, Ukraine, 28 - 31 August 2018, vol.2037
- XX. **Almost Increasing Sequences and Their New Applications**  
Ozarslan H., Kartal B.  
6th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA), Budapest, Hungary, 15 - 17 August 2017, vol.1926
- XXI. **Almost Increasing Sequences and Their New Applications**  
Özarslan H., Kartal B.  
6th International Eurasian Conference on Mathematical Sciences and Applications, Budapest, Hungary, 15 - 18 August 2017, pp.65
- XXII. **Some Results Concerning the Summability of Infinite Series**  
ÖZARSLAN H., KARTAL B.  
International Conference on Operators in Morrey-Type Spaces And Applications, Kırşehir, Turkey, 10 - 13 July 2017, pp.63
- XXIII. **On Matrix Transformations of Infinite Series**  
ÖZARSLAN H., KARTAL B.  
International Conference on Applied Analysis And Mathematical Modeling, İstanbul, Turkey, 3 - 07 July 2017, pp.57
- XXIV. **A New Result on Generalized Absolute Matrix Summability**  
ÖZARSLAN H., KARTAL B.  
2nd International Conference on Analysis and Its Applications, Kırşehir, Turkey, 12 - 15 July 2016, pp.72

## Supported Projects

ÖZARSLAN H., KARTAL B., Project Supported by Higher Education Institutions, Genelleştirilmiş Mutlak Matris Toplanabilme Metotları, 2017 - 2019

ÖZARSLAN H., KARTAL B., Project Supported by Higher Education Institutions, Mutlak Matris Toplanabilme Metotları ve Yeni Uygulamaları, 2014 - 2016

## Scientific Refereeing

ANNALES UNIVERSITATIS PAEDAGOGICAE CRACOVENSIS. STUDIA MATHEMATICA, Journal Indexed in ESCI, March 2023

Journal of New Theory, Other Indexed Journal, September 2022

PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES INDIA SECTION A-PHYSICAL SCIENCES, Journal Indexed in SCI-E, July 2022

Cumhuriyet Science Journal, Other Indexed Journal, March 2022  
Maltepe Journal of Mathematics, Other Indexed Journal, April 2021

## Metrics

Publication: 40  
Citation (WoS): 4  
Citation (Scopus): 7  
H-Index (WoS): 1  
H-Index (Scopus): 2

## Congress and Symposium Activities

2. Uluslararası Erciyes Bilimsel Arařtırmalar Kongresi, Attendee, Kayseri, Turkey, 2019  
3rd International Conference on Computational Mathematics and Engineering Sciences, Attendee, Girne, Cyprus (Kktc), 2018  
13. Ankara Matematik Gnleri, Attendee, Ankara, Turkey, 2018  
International Conference on Applied Analysis And Mathematical Modeling, Attendee, İstanbul, Turkey, 2017  
International Conference on Operators in Morrey-Type Spaces And Applications, Attendee, Kırřehir, Turkey, 2017  
2nd International Conference on Analysis and Its Applications, Attendee, Kırřehir, Turkey, 2016  
8. Ankara Matematik Gnleri, Attendee, Ankara, Turkey, 2013  
Biliřim Gnleri 2009, Attendee, Eskiřehir, Turkey, 2009

## Scholarships

Yurt İi Dođrudan Doktora Burs Programı, TUBITAK, 2014 - 2018  
Yurt İi Yksek Lisans Burs Programı, TUBITAK, 2013 - 2014