

Asst. Prof. ÖVGÜ GÜREL YILMAZ

Personal Information

Office Phone: +90 464 223 4093 Extension: 1823

Email: ovgu.gurelyilmaz@erdogan.edu.tr

Web: <https://avesis.erdogan.edu.tr/ovgu.gurelyilmaz>

Address: Recep Tayyip Erdoğan Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü



International Researcher IDs

ScholarID: KJ02s3AAAAAJ

ORCID: 0000-0003-1498-8526

Publons / Web Of Science ResearcherID: JTS-7151-2023

ScopusID: 57204587566

Yoksis Researcher ID: 108996

Education Information

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2013 - 2019

Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2010 - 2013

Undergraduate, Ondokuz Mayıs University, Fen Edebiyat Fakültesi, Matematik, Turkey 2005 - 2009

Dissertations

Doctorate, King Tipli Operatörlerin Yaklaşım Özellikleri, Ankara University, Fen Bilimleri Enstitüsü, Matematik, 2019

Postgraduate, Hipergeometrik ortogonal polinomlar, Ankara University, Fen Bilimleri Enstitüsü, Matematik Anabilimdalı, 2013

Research Areas

Mathematics, Operators, Special Functions, Approximations and Expansions, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2023 - Continues

Research Assistant PhD, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2019 - 2023

Research Assistant, Ankara University, Fen Edebiyat Fakültesi, Matematik, 2011 - 2019

Research Assistant, Recep Tayyip Erdogan University, Fen Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2011

Courses

Basic Geometry, Undergraduate, 2023 - 2024

Mathematics II, Undergraduate, 2023 - 2024

Positive Operators, Postgraduate, 2023 - 2024

Mathematics III, Undergraduate, 2023 - 2024
Differential Equations, Undergraduate, 2023 - 2024
Applied Mathematics, Postgraduate, 2023 - 2024
Vocational English II, Undergraduate, 2022 - 2023
Numerical Solutions of Partial Differential Equation, Postgraduate, 2023 - 2024
Mathematics I, Undergraduate, 2023 - 2024
Fourier Analysis, Undergraduate, 2022 - 2023

Advising Theses

Gürel Yılmaz Ö., q -Bernstein Stancu Operatörlerinin Özellikleri, Postgraduate, F.BARANER(Student), Continues

Jury Memberships

Post Graduate, Post Graduate, Recep Tayyip Erdoğan Üniversitesi, August, 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Shape-preserving properties of the limit q -Durrmeyer operator**
Gürel Yılmaz Ö., Ostrovska S., Turan M.
Journal of Mathematical Analysis and Applications, vol.539, no.1P2, 2024 (SCI-Expanded)
- II. **The continuity in q of the Lupaş q -analogues of the Bernstein operators**
Gürel Yılmaz Ö., Ostrovska S., Turan M.
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.529, no.2, pp.1-15, 2024 (SCI-Expanded)
- III. **The Impact of the Limit q -Durrmeyer Operator on Continuous Functions**
GÜREL YILMAZ Ö., Ostrovska S., Turan M.
Computational Methods and Function Theory, 2024 (SCI-Expanded)
- IV. **On the injectivity with respect to q of the Lupaş q -transform**
Yılmaz Ö., Ostrovska S., Turan M.
Quaestiones Mathematicae, vol.47, no.3, pp.477-487, 2024 (SCI-Expanded)
- V. **On the Image of the Lupaş q -Analogue of the Bernstein Operators**
Gürel Yılmaz Ö., Ostrovska S., Turan M.
BULLETIN OF THE MALAYSIAN MATHEMATICAL SCIENCES SOCIETY, vol.47, no.11, 2024 (SCI-Expanded)
- VI. **On the continuity in q of the family of the limit q -Durrmeyer operators**
Yılmaz Ö., Ostrovska S., Turan M.
Demonstratio Mathematica, vol.57, no.1, 2024 (SCI-Expanded)
- VII. **On the eigenstructure of the q -Durrmeyer operators**
Yılmaz Ö.
Turkish Journal of Mathematics, vol.47, no.6, pp.1643-1658, 2023 (SCI-Expanded)
- VIII. **On the Eigenstructure of the Modified Bernstein Operators**
Gürel Yılmaz Ö., Ostrovska S., Turan M.
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.43, no.16, pp.1821-1835, 2022 (SCI-Expanded)
- IX. **On approximation properties of generalized Lupaş type operators based on Polya distribution with Pochhammer k -symbol**
Gürel Yılmaz Ö., Aktaş Karaman R., Taşdelen Yeşildal F., Olgun A.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.51, no.2, pp.338-361, 2022 (SCI-Expanded)
- X. **On Some Formulas for the k -Analogue of Appell Functions and Generating Relations via k -Fractional Derivative**

Gürel Yılmaz Ö., Aktaş Karaman R., Taşdelen Yeşildal F.

FRACTAL AND FRACTIONAL, vol.4, no.4, pp.1-19, 2020 (SCI-Expanded)

XI. **A note on Baskakov-Kantorovich type operators preserving e^{-x}**

Gürel Yılmaz Ö., Gupta V., Aral A.

MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.43, no.13, pp.7511-7517, 2020 (SCI-Expanded)

XII. **On Approximation Properties of Baskakov-Schurer-Szász Operators Preserving Exponential Functions**

Gürel Yılmaz Ö., Bodur M., Aral A.

FILOMAT, vol.32, no.15, pp.5433-5440, 2018 (SCI-Expanded)

Articles Published in Other Journals

I. **On the eigenstructure of the q-Stancu operator**

Gürel Yılmaz Ö.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.73, no.3, pp.820-832, 2024 (ESCI)

II. **On Lupas-Jain-Beta Operators**

Patel P. G., Soylemez D., GÜREL YILMAZ Ö.

THAI JOURNAL OF MATHEMATICS, vol.20, no.2, pp.511-525, 2022 (ESCI)

III. **Approximation by Baskakov-Szász-Stancu Operators Preserving Exponential Functions**

Bodur M., Gürel Yılmaz Ö., Aral A.

Constructive Mathematical Analysis, vol.1, no.1, pp.1-8, 2018 (Scopus)

IV. **On Baskakov operators preserving the exponential function**

Gürel Yılmaz Ö., Vijay G., Aral A.

Journal of Numerical Analysis and Approximation Theory, vol.46, no.2, pp.150-161, 2017 (Peer-Reviewed Journal)

V. **On Szász-Mirakyan Type Operators Preserving Polynomials**

Gürel Yılmaz Ö., Aral A., Taşdelen Yeşildal F.

Journal of Numerical Analysis and Approximation Theory, vol.46, no.1, pp.93-106, 2017 (Peer-Reviewed Journal)

VI. **On a family of multivariable polynomials defined through Rodrigues type formula**

Gürel Yılmaz Ö., Aktaş R., Altın A.

Journal of Classical Analysis, vol.4, no.2, pp.167-180, 2014 (Peer-Reviewed Journal)

Refereed Congress / Symposium Publications in Proceedings

I. **Is the Limit q-Durrmeyer Operator Shape-Preserving?**

Gürel Yılmaz Ö.

Approximation Theory and Special Functions, ATSF 2024 Conference - 8th Series, Ankara, Turkey, 4 - 07 September 2024, pp.1

II. **On the shape-preserving properties of the limit q-Durrmeyer operator**

Gürel Yılmaz Ö.

5th Edition of the International Conference on Mathematics and Computer Science, MACOS-2024, Brasov, Romania, 13 - 15 June 2024, pp.1-2

III. **On the q-Durrmeyer Operators**

Gürel Yılmaz Ö.

15. Ankara Matematik Günleri, Ankara, Turkey, 23 - 24 May 2024, pp.1-2

IV. **On the Lupas q-analogues of the Bernstein operators**

GÜREL YILMAZ Ö.

17th International Conference on Applied Mathematics and Computer Science, Cluj-Napoca, Romania, 11 - 13 July 2023

- V. **Some Properties of Modified Bernstein Operator**
GÜREL YILMAZ Ö.
2nd International Workshop: Constructive Mathematical Analysis, Konya, Turkey, 6 - 08 July 2023
- VI. **Some Properties of q-Durrmeyer Operators**
GÜREL YILMAZ Ö.
2nd International E-Conference on Mathematical and Statistical Sciences: A Selçuk Meeting, ICOMSS'23, Konya, Turkey, 5 - 07 June 2023
- VII. **On Modified Bernstein Operators**
Gürel Yılmaz Ö.
CURRENT TRENDS IN ABSTRACT AND APPLIED ANALYSIS, Ivano-Frankivsk, Ukraine, 12 - 15 May 2022
- VIII. **Approximation Properties by New Class Kantorovich Type Operators**
Gürel Yılmaz Ö.
8th INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIED MATHEMATICS , ICRAPAM 2021, Muğla, Turkey, 24 - 27 September 2021
- IX. **Approximation Properties of New Stancu Type Linear Positive Operators**
Gürel Yılmaz Ö.
International Online Conference on Engineering and Natural Sciences , IOCENS 2021, Gümüşhane, Turkey, 5 - 07 July 2021
- X. **Some Results for Kantorovich Type Bivariate Linear Positive Operators**
Gürel Yılmaz Ö.
9th (Online) International Conference on Applied Analysis and Mathematical Modeling, ICAAM 2021, İstanbul, Turkey, 11 - 13 June 2021
- XI. **On a Sequence of Linear Positive Operators Associated with k-Beta Function**
Gürel Yılmaz Ö.
5th International Conference on Computational Mathematics and Engineering Science, CMES 2021, Van, Turkey, 8 - 10 June 2021
- XII. **Approximation by New Bivariate Positive Linear Operators**
Gürel Yılmaz Ö.
4th International Conference on Mathematical Advances and Applications, ICOMAA-2021, İstanbul, Turkey, 26 - 29 May 2021
- XIII. **A New Construction of Linear Positive Operators Based on Beta Function**
Gürel Yılmaz Ö.
7th IFS and Contemporary Mathematics Conference, IFSCOM- 2021, Mersin, Turkey, 25 - 29 May 2021
- XIV. **Note On Baskakov-Schurer-Szasz Operators Preserving Constant and $e^{2ax} a^0$**
Gürel Yılmaz Ö., Bodur M., Aral A.
7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2018), Kyiv, Ukraine, 28 - 31 August 2018
- XV. **Note on Baskakov Operators Preserving $e\{2ax\}$, a^0**
GÜREL YILMAZ Ö., GUPTA V., ARAL A.
The 7th International Conference on Pure and Applied Mathematics (ICPAM 2018), 10 - 13 July 2018
- XVI. **On Approximation Properties of Baskakov-Kantorovich Type Operators Preserving Exponential Function**
Gürel Yılmaz Ö., Gupta V., Aral A.
International Conference on Mathematics:An Istanbul Meeting for World Mathematicians (ICOMATH), İstanbul, Turkey, 3 - 06 July 2018
- XVII. **On Szász-Mirakyan type operators preserving polynomials**
Gürel Yılmaz Ö., Aral A., Taşdelen Yeşildal F.
International Workshop on Mathematical Methods in Engineering (MME 2017), Ankara, Turkey, 27 - 29 April 2017
- XVIII. **On a Family of Multivariable Polynomials**
Gürel Yılmaz Ö.
International Congress on Computational and Applied Mathematics (ICCAM 2012), Ghent, Belgium, 9 - 13 July

Supported Projects

Gürel Yılmaz Ö., Aktaş R., Olgun A., Project Supported by Higher Education Institutions, Genelleştirilmiş Pochhammer Sembolü Yardımıyla Tanımlanan Bazı Lineer Pozitif Operatörler, 2020 - 2021

Scientific Refereeing

NUMERICAL ALGORITHMS, Journal Indexed in SCI-E, September 2024

Results in Nonlinear Analysis, Other Indexed Journal, June 2024

Gazi Üniversitesi Fen Fakültesi Dergisi, National Scientific Refreed Journal, June 2024

MAEJO INTERNATIONAL JOURNAL OF SCIENCE AND TECHNOLOGY, Journal Indexed in SCI-E, March 2024

ANNALI DELL'UNIVERSITA DI FERRARA, Other Indexed Journal, June 2022

Constructive Mathematical Analysis, Other Indexed Journal, October 2021

Turkish Journal of Mathematics and Computer Science, National Scientific Refreed Journal, September 2021

Metrics

Publication: 36

Citation (Scopus): 10

H-Index (WoS): 2

H-Index (Scopus): 2

Congress and Symposium Activities

2nd International Workshop: Constructive Mathematical Analysis, Session Moderator, Konya, Turkey, 2023

International Workshop on Mathematical Methods in Engineering, Session Moderator, Ankara, Turkey, 2017

Awards

Gürel Yılmaz Ö., Best Presenter, The 7Th International Conference On Pure And Applied Mathematics, Icpam 2018, , July 2018

Non Academic Experience

University, Atılım Üniversitesi, Atılım University

University, Universidad de Granada, Department of Mathematics