

Asst. Prof. ÖVGÜ GÜREL YILMAZ

Personal Information

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



International Researcher IDs

ORCID: 0000-0003-1498-8526

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

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, Special Functions, 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

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

Jury Memberships

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

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **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)
- II. **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)
- III. **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)
- IV. **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)
- V. **On the eigenstructure of the q -Durrmeyer operators**
Yılmaz Ö.
Turkish Journal of Mathematics, vol.47, no.6, pp.1643-1658, 2023 (SCI-Expanded)
- VI. **On the Eigenstructure of the Modified Bernstein Operators**
GÜREL YILMAZ Ö., Ostrovska S., TURAN M.
NUMERICAL FUNCTIONAL ANALYSIS AND OPTIMIZATION, vol.43, no.16, pp.1821-1835, 2022 (SCI-Expanded)
- VII. **On approximation properties of generalized Lupaş type operators based on Polya distribution with Pochhammer k -symbol**
GÜREL YILMAZ Ö., AKTAŞ R., Tasdelen F., Olgun A.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.51, no.2, pp.338-361, 2022 (SCI-Expanded)
- VIII. **On Some Formulas for the k -Analogue of Appell Functions and Generating Relations via k -Fractional Derivative**
Gürel Yılmaz Ö., Aktaş R., Taşdelen Yeşildal F.
FRACTAL AND FRACTIONAL, vol.4, no.4, 2020 (SCI-Expanded)
- IX. **A note on Baskakov-Kantorovich type operators preserving $(-x)$**
Yılmaz Ö., Gupta V., Aral A.
MATHEMATICAL METHODS IN THE APPLIED SCIENCES, vol.43, no.13, pp.7511-7517, 2020 (SCI-Expanded)
- X. **On Approximation Properties of Baskakov-Schurer-Szasz Operators Preserving Exponential Functions**
Yılmaz Ö., Bodur M., Aral A.
FILOMAT, vol.32, no.15, pp.5433-5440, 2018 (SCI-Expanded)

Articles Published in Other Journals

- I. **On Lupaş-Jain-Beta Operators**
Patel P. G., Soylemez D., GÜREL YILMAZ Ö.
THAI JOURNAL OF MATHEMATICS, vol.20, no.2, pp.511-525, 2022 (ESCI)

- II. **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)
- III. **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)
- IV. **On Szasz-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)
- V. **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. **On the Lupaş 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
- II. **Some Properties of Modified Bernstein Operator**
GÜREL YILMAZ Ö.
2nd International Workshop: Constructive Mathematical Analysis, Konya, Turkey, 6 - 08 July 2023
- III. **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
- IV. **On Modified Bernstein Operators**
GÜREL YILMAZ Ö.
CURRENT TRENDS IN ABSTRACT AND APPLIED ANALYSIS, Ukraine, 12 May 2022
- V. **Approximation Properties by New Class Kantorovich Type Operators**
GÜREL YILMAZ Ö.
8th INTERNATIONAL CONFERENCE on RECENT ADVANCES in PURE AND APPLIED MATHEMATICS , ICRAPAM 2021, Turkey, 24 September 2021
- VI. **Approximation Properties of New Stancu Type Linear Positive Operators**
GÜREL YILMAZ Ö.
International Online Conference on Engineering and Natural Sciences , IOCENS 2021, Turkey, 05 July 2021
- VII. **Some Results for Kantorovich Type Bivariate Linear Positive Operators**
GÜREL YILMAZ Ö.
9th (Online) International Conference on Applied Analysis and Mathematical Modeling, ICAAM 2021, Turkey, 11 June 2021
- VIII. **On a Sequence of Linear Positive Operators Associated with k-Beta Function**
GÜREL YILMAZ Ö.
5th International Conference on Computational Mathematics and Engineering Science, CMES 2021, Turkey, 08 June 2021
- IX. **Approximation by New Bivariate Positive Linear Operators**
GÜREL YILMAZ Ö.
4th International Conference on Mathematical Advances and Applications, ICOMAA-2021, Turkey, 26 May 2021
- X. **A New Construction of Linear Positive Operators Based on Beta Function**
GÜREL YILMAZ Ö.
7th IFS and Contemporary Mathematics Conference, IFSCOM- 2021, Turkey, 25 May 2021

- XI. **Note On Baskakov-Schurer-Szasz Operators Preserving Constant and $e^{2ax} a^0$**
GÜREL YILMAZ Ö., BODUR M., ARAL A.
7th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA-2018), 28 - 31 August 2018
- XII. **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
- XIII. **On Approximation Properties of Baskakov-Kantorovich Type Operators Preserving Exponential Function**
GÜREL YILMAZ Ö., GUPTA V., ARAL A.
International Conference on Mathematics:An Istanbul Meeting for World Mathematicians, 3 - 06 July 2018
- XIV. **On Szász-Mirakyan type operators preserving polynomials**
GÜREL YILMAZ Ö., ARAL A., TAŞDELEN YEŞİLDAL F.
International Workshop on Mathematical Methods in Engineering, 27 - 29 April 2017
- XV. **On a Family of Multivariable Polynomials**
GÜREL YILMAZ Ö., ALTIN A., AKTAŞ R.
International Congress on Computational and Applied Mathematics, 9 - 13 July 2012

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

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: 30
Citation (WoS): 12
Citation (Scopus): 18
H-Index (WoS): 3
H-Index (Scopus): 3

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