

## Prof. Dr. ESRA DUMAN

### Kişisel Bilgiler

İş Telefonu: [+90 312 202 1094](tel:+903122021094)

E-posta: [eduman@gazi.edu.tr](mailto:eduman@gazi.edu.tr)

Diğer E-posta: [eerkusduman@gmail.com](mailto:eerkusduman@gmail.com)

Web: <https://avesis.gazi.edu.tr/eduman>

### Uluslararası Araştırmacı ID'leri

ORCID: 0000-0003-1848-5248

Publons / Web Of Science ResearcherID: AIC-7107-2022

ScopusID: 25936060600

Yoksis Araştırmacı ID: 134010

### Eğitim Bilgileri

Doktora, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), Türkiye 1999 - 2005

Yüksek Lisans, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Türkiye 1996 - 1999

Lisans, Ankara Üniversitesi, Fen Fakültesi, Matematik Bölümü, Türkiye 1991 - 1995

### Araştırma Alanları

Matematik, Temel Bilimler

### Akademik Unvanlar / Görevler

Prof. Dr., Gazi Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2017 - Devam Ediyor

Doç. Dr., Gazi Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2010 - 2017

Araştırmacı, University of Central Florida, Department of Mathematics, 2015 - 2015

Yrd. Doç. Dr., Gazi Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2007 - 2010

Yrd. Doç. Dr., Çanakkale Onsekiz Mart Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2006 - 2007

Araştırma Görevlisi, Ankara Üniversitesi, Fen Bilimleri Enstitüsü, Matematik (Dr), 1996 - 2005

### Yönetilen Tezler

Erkus-Duman E., Bazı özel fonksiyonların q- analogları, Yüksek Lisans, Y.AVCI(Öğrenci), 2019

Erkus-Duman E., Bazı polinomlar için doğurucu fonksiyonların yeni bir sınıfı, Yüksek Lisans, Ö.AKYEL(Öğrenci), 2019

Erkus-Duman E., Bernstein tipi ve beta tipi polinomları ve özellikleri, Yüksek Lisans, D.UÇAK(Öğrenci), 2019

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Erkus-Duman E., Özel Fonksiyonların Bazı Özellikleri, Yüksek Lisans, T.MERCAN(Öğrenci), 2009

## SCI, SSCI ve AHCI İndekslerine Giren Dergilerde Yayımlanan Makaleler

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- II. **A new family of two-variable polynomials based on hermite polynomials**  
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- III. **Gottlieb Polynomials and Their q-Extensions**  
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- IV. **On Some Families of New Constructed Polynomials**  
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- V. **SOME NEW PROPERTIES OF UNIVARIATE AND MULTIVARIATE GOTTLIEB POLYNOMIALS**  
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- VI. **Harmonic functions associated with some polynomials in several variables**  
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- VII. **Generalized Vieta-Jacobsthal and Vieta-Jacobsthal-Lucas polynomials**  
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- VIII. **GENERATING FUNCTIONS FOR THE GENERALIZED BIVARIATE FIBONACCI AND LUCAS POLYNOMIALS**  
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- IX. **FAMILIES OF GENERATING FUNCTIONS FOR THE JACOBI AND RELATED MATRIX POLYNOMIALS**  
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- X. **The Laguerre polynomials in several variables**  
AKTAŞ R., Erkus-Duman E.  
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- XI. **Extended Jacobi Functions via Riemann-Liouville Fractional Derivative**  
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- XII. **On a Family of Multivariate Modified Humbert Polynomials**  
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- XIII. **STATISTICAL APPROXIMATION BY MEANS OF OPERATORS CONSTRUCTED BY q-LAGRANGE POLYNOMIALS**  
Erkus-Duman E.  
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- XIV. **STATISTICAL KOROVKIN-TYPE THEORY FOR MATRIX-VALUED FUNCTIONS**  
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- XV. **Statistical approximation properties of high order operators constructed with the Chan-Chyan-**

### **Srivastava polynomials**

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- XVI. **Miscellaneous properties of some multivariable polynomials**  
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- XVII. **MATRIX EXTENSIONS OF POLYNOMIALS IN SEVERAL VARIABLES**  
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- XVIII. **STATISTICAL RATES IN APPROXIMATION BY POSITIVE LINEAR OPERATORS**  
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- XIX. **Rates of Ideal Convergence for Approximation Operators**  
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- XX. **On a multivariable extension for the extended Jacobi polynomials**  
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- XXI. **Statistical Approximation for Stochastic Processes**  
Anastassiou G. A., DUMAN O., Erkus-Duman E.  
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- XXII. **Korovkin Type Error Estimates for Positive Linear Operators Involving Some Special Functions**  
Dogru O., Erkus-Duman E.  
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- XXIII. **A q-extension of the Erkus-Srivastava polynomials in several variables**  
Erkus-Duman E.  
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- XXIV. **Integral-type generalizations of operators obtained from certain multivariate polynomials**  
Erkus-Duman E., DUMAN O.  
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- XXV. **Statistical rates on the multivariate approximation theory**  
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- XXVI. **Statistical approximation of certain positive linear operators constructed by means of the Chan-Chyan-Srivastava polynomials**  
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- XXVII. **The q-Lagrange polynomials in several variables**  
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- XXVIII. **Approximation of continuous periodic functions via statistical convergence**  
Duman O., Erkus E.  
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- XXIX. **Families of linear generating functions for polynomials in two variables**  
Altin A., Erkus E., Oezarslan M. A.  
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- XXX. **A unified presentation of some families of multivariable polynomials**  
Erkus E., Srivastava H. M.  
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- XXXI. **On a multivariable extension of the Lagrange-Hermite polynomials**  
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- INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, cilt.17, sa.4, ss.239-244, 2006 (SCI-Expanded)
- XXXII. **A Korovkin type approximation theorem in statistical sense**  
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- XXXIV. **A note on the Lagrange polynomials in several variables**  
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- I. **Advances in the Continuous Dual Hahn Polynomials**  
DUMLUPINAR M., DUMAN E.  
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- II. **The Meixner Polynomials in Several Variables**  
Özmen N., Erkuş-Duman E.  
International Journal of Applied Physics and Mathematics, cilt.9, sa.3, ss.144-151, 2019 (Hakemli Dergi)
- III. **Extended Multivariable Fourth Type Horn Functions**  
Düzgün D., Erkuş-Duman E.  
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- IV. **ON THE GOTTLIEB POLYNOMIALS IN SEVERAL VARIABLES**  
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- V. **Generating Functions for k-Hypergeometric Functions**  
Düzgün D., Erkuş-Duman E.  
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- VI. **An Extension of a Class of Generating Functions For The Cesaro Polynomials of Three Variables**  
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Journal of Science and Arts, cilt.45, sa.4, ss.939-950, 2018 (ESCI)
- VII. **Fibonacci and Lucas Differential Equations**  
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Application and applied mathematics, cilt.13, sa.2, ss.756-763, 2018 (ESCI)
- VIII. **Some Generating Functions For a Class of Hypergeometric Polynomials**  
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- IX. **Some Families of Generating Functions for the Generalized Cesaro Polynomials**  
Özmen N., Erkuş-Duman E.  
Journal Of Computational Analysis And Applications, cilt.25, sa.4, ss.670-683, 2018 (Scopus)
- X. **The Laguerre Type d-Orthogonal Polynomials**  
Düzgün D., Erkuş-Duman E.  
Journal of Science and Arts, cilt.1, sa.42, ss.95-106, 2018 (ESCI)
- XI. **ON THE POISSON CHARLIER POLYNOMIALS**  
Özmen N., Erkuş-Duman E.  
Ser dica Mathematical Journal, cilt.41, ss.457-470, 2015 (Hakemli Dergi)
- XII. **A generalization of the extended Jacobi polynomials in two variables**  
Aktaş R., Erkuş-Duman E.  
Gazi University Journal of Science, cilt.28, sa.3, ss.503-521, 2015 (Scopus)

- XIII. **New generating functions for the Konhauser matrix polynomials**  
Erkuş-Duman E., Çekim B.  
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- XIV. **Integral Representations for Bessel Matrix Functions**  
Çekim B., Erkuş-Duman E.  
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- XV. **On a hybrid family of summation integral type operators**  
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- XVI. **The multivariate  $q$  Lagrange Hermite polynomials**  
Erkuş E.  
International Journal of Computational and Numerical Analysis and Applications, cilt.6, sa.2, ss.143-151, 2004 (Hakemli Dergi)

## Kitap & Kitap Bölümleri

- I. **Extended Multivariable Hypergeometric Functions**  
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Birkhäuser, Cham, Vaxjö, ss.17-25, 2019
- II. **On the Generalized Sylvester Polynomials**  
Özmen N., Erkuş-Duman E.  
Analysis, Probability, Applications, and Computation, Karl-Olof Lindahl, Torsten Lindström, Luigi G. Rodino, Joachim  
Toft, Patrik Wahlberg, Editör, Birkhäuser, Cham, Vaxjö, ss.47-55, 2019
- III. **On the  $g$ -Jacobi Matrix Functions**  
Çekim B., Erkuş-Duman E.  
Advances in Applied Mathematics and Approximation Theory, Anastassiou, Duman, Editör, Springer-Verlag, Zürich,  
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## Hakemli Kongre / Sempozyum Bildiri Kitaplarında Yer Alan Yayınlar

- I. **A GENERALIZATION FOR THE HERMITE-BASED APPELL POLYNOMIALS**  
SOYARSLAN G., DUMAN E.  
6 th INTERNATIONAL CONFERENCE ON MULTIDISCIPLINARY SCIENTIFIC STUDIES, İstanbul, Türkiye, 2 - 03  
Haziran 2023, ss.298-305
- II. **SOME NEW RESULTS FOR THE WILSON POLYNOMIALS**  
DUMLUPINAR M., DUMAN E.  
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- III. **A Generalization of Cesaro Polynomials in Several Variables and the Generalized Lauricella Functions**  
Erkuş-Duman E., Özmen N.  
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ss.90
- IV. **On Some Generalized Polynomials**  
Korkmaz Düzgün D., Erkuş-Duman E.  
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ss.49
- V. **Generating Functions for The Extended Multivariable Fourth Type Horn Functions**

Düzgün D., Erkuş-Duman E.

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- VI. **Generating Functions for k-Hypergeometric Functions**  
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ICPAM, Budapest, Macaristan, 10 - 14 Temmuz 2018
- VII. **Gottlieb Polynomials in several Variables**  
Özmen N., Erkuş-Duman E.  
V. Kadın Matematikçiler Derneği Çalıştayı, Diyarbakır, Türkiye, 5 - 07 Mayıs 2018, ss.12
- VIII. **On the generalized Sylvester polynomials**  
Erkuş-Duman E., Özmen N.  
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- IX. **EXTENDED MULTIVARIABLE HYPERGEOMETRIC FUNCTIONS**  
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- X. **Extended Multivariable Fourth Type Horn Functions**  
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- XI. **On the Cesaro polynomials of three variables**  
Özmen N., Erkuş-Duman E.  
International Conference on Mathematics and Engineering, İstanbul, Türkiye, 10 - 12 Mayıs 2017, ss.378
- XII. **Some New Properties of the Extended Generalized Hypergeometric Functions**  
Düzgün D., Erkuş-Duman E.  
ETAMM 2016, Perpignan, Fransa, 30 Mayıs - 03 Haziran 2016
- XIII. **On the Generalized Cesaro Polynomials**  
Erkuş-Duman E., Özmen N.  
ETAMM 2016, Perpignan, Fransa, 30 Mayıs - 03 Haziran 2016
- XIV. **On the Poisson Charlier Polynomials**  
Özmen N., Erkuş-Duman E.  
International Conference: Mathematics Days in Sofia, Sofiya, Bulgaristan, 7 - 10 Temmuz 2014, cilt.41, ss.457-470
- XV. **Some Families of Generating Functions for Laguerre and Charlier Types d Orthogonal Polynomials**  
Düzgün D., Erkuş-Duman E.  
International Conference on Recenet Developments in Pure and Applied Mathematics - ICRAPAM 2014, Antalya, Türkiye, 6 - 09 Kasım 2014
- XVI. **On the Generalized Bernoulli Euler and Genocchi Polynomials**  
Güldoğan E., Erkuş-Duman E.  
International Conference on Recenet Developments in Pure and Applied Mathematics - ICRAPAM 2014, Antalya, Türkiye, 6 - 09 Kasım 2014
- XVII. **Some Results For A Family of Multivariable Polynomials**  
Özmen N., Erkuş-Duman E.  
11th International Conference of Numerical Analysis and Applied Mathematics, Rodos, Yunanistan, 21 - 27 Eylül 2013, cilt.1558, ss.1124-1127
- XVIII. **Çok değişkenli Gottlieb polinomları**  
Erkuş-Duman E.  
26.Ulusal Matematik Sempozyumu, Diyarbakır, Türkiye, 4 - 07 Eylül 2013
- XIX. **On the g Jacobi matrix functions**  
Çekim B., Erkuş-Duman E.  
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- XX. **Laguerre ve Konfluent Hipergeometrik Fonksiyonların Bir Matris Genellemesi**  
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7. Ankara Matematik Günleri, Ankara, Türkiye, 31 Mayıs - 01 Haziran 2012
- XXI. **Approximation by matrix valued linear positive operators**

Duman O., Erkuş-Duman E.

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**XXII. Integral representations for a class of polynomials in two variables**

Erkuş-Duman E.

Mathematical Analysis, Differential Equations and Their Applications, Gazimagusa, Kıbrıs (Kktc), 12 - 15 Eylül 2008

**XXIII. Some Mixed Generating Relations for Some Families of Multivariable Polynomials**

Erkuş-Duman E.

II. Ankara Matematik Günleri, Ankara, Türkiye, 22 - 23 Mayıs 2008

**XXIV. Pozitif lineer operatörler yardımıyla sürekli periyodik fonksiyonlara istatistiksel yaklaşım**

Erkuş-Duman E., Duman O.

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**XXV. Çok Değişkenli Polinomların Çeşitli Ailelerinin Ortak Bir Gösterimi**

Erkuş-Duman E.

XIX. Ulusal Matematik Sempozyumu, Kütahya, Türkiye, 22 - 25 Ağustos 2006

## **Metrikler**

Yayın: 78

Atf (WoS): 469

Atf (Scopus): 378

H-İndeks (WoS): 12

H-İndeks (Scopus): 11

## **Ödüller**

Erkuş-Duman E., Best Organizer Award, 10Th International Conference On Mechanical And Aerospace Engineering, Belçika, Temmuz 2019

## **Akademi Dışı Deneyim**

Gazi Üniversitesi

University of Central Florida

Çanakkale Onsekiz Mart Üniversitesi

Ankara Üniversitesi