Curriculum Vitae (CV)

Name : Mehmet Ali Özarslan

Position : Professor of Mathematics

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Date of Birth : September 09,1976

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Education

- **Ph.D.** : Ankara University (April,2005)
- **M.S.** : Ankara University (July,2000)
- **B.S.** : Ankara University (June,1997)

Academic Experience

- **Professor** : Eastern Mediterranean University (2015-…)
- **Associate Professor** : Eastern Mediterranean University (2009-2015)
- **Assistant Professor** : Eastern Mediterranean University (2005-2009)
- **Research Assistant** : Ankara University (2002-2005)

Current Research Interests

- Special functions
- Fractional Calculus
- Korovkin-type approximation theory
- q-Calculus
- Statistical convergence and its applications

Graduate Students

Ph.D. Thesis

- **Title:** Some Properties of Certain Class of Polynomials (2010)
  Student: Assoc. Prof. Dr. Cem Kaanoğlu
- **Title:** Some Properties of Hypergeometric Functions (2011)
  Student: Dr. Emine Özergin
- **Title:** Some Properties of Appell Polynomials (2014)
  Student: Dr. Banu Yılmaz

- **Title:** Approximation Properties of q-Bernstein-Schurer Operators (2015)
  Student: Dr. Tuba Vedi
- **Title:** Some results on Laguerre type and Mittag-Leffler type functions (2017)
  Student: Dr. Cemaliye Kurt
- **Title:** Incomplete Pochhammer Ratio and Related Special Functions (2018)
  Student: Dr. Ceren Ustaoğlu
- **Title:** On the w-Charlier Polynomials (2021)
  Student: Dr. Gizem Baran
- **Title:** Bivariate Versions of Fractional Calculus with General Analytic Kernels (2025)
  Student: Dr. Sunday Simon Isah (Co Supervisor)

Master Thesis

- **Title:** Volterra Integral Equations of the Second Kind (2007)
  Student: Habibe Tilim
- **Title:** Schurer Type q-Bernstein Operators (2011)
  Student: Tuba Vedi
- **Title:** Exponential Operators and Hermite Type Polynomials (2016)
  Student: Gizem Baran
- **Title:** (p,q)-Hahn Difference Operator (2020)
  Student: Duygu Malyalı
- **Title:** q-Multiple Appell Polynamials (2021)
  Student: Merve Çil
- **Title:** On The Analysis of Solution Of ψ-Caputo Fractional Logistic Equation (2026)
  Student: Marwah Jameel A. Alzeadat (Co Supervisor)

Publication List:

1. **M.A.Özarslan,** B.Çekim, S.Çit, Approximation with Chlodowsky-Sheffer Operators on Unbounded Intervals, Mediterranean Journal.of. Math (2025), 22 (8), 203.
2. N.B. Hepsisler, B.Çekim, **M.A.Özarslan**, A new generalization of Laguerre-based Appell polynomials with two parameters, Filomat (2025), 39 (26), 9347-9362.
3. İ.O. Elidemir, **M.A.Özarslan**, Hilfer derivatives based on the multivariate Mittag-Leffler functions and applications, Int. J. of Computer Math. (2025), 102 (12), 1951-1972.
4. E.G. Lekesiz, B. Çekim, **M.A. Özarslan,** Finite bivariate biorthogonal N - Konhauser polynomials, J. of Differece Eqn. and Appl. (2025) 31 (9), pp.1237-1262.
5. Z. Özat, B. Çekim, **M.A. Özarslan,** F. Costabile, Truncated-Exponential-Based General-Appell Polynomials, Mathematics (2025), 13 (8), 1266.
6. **M.A.Özarslan**, C.Kürt, Fractional calculus containing certain bivariate Mittag-Leffler kernel with respect to function, Demonsratio Math. (2025), 58 (1), 20250156.

7. Q.B.Cai, S.Y.Güngör, B.Çekim, **M.A.Özarslan**, Approximation by modified Durrmeyer type Jakimovski-Leviatan operators, Appl. Math. J. Chinese Univ. (2025), 40(3), 709-724.
8. **M.A.Özarslan**, D. Malyalı, Difference equations for a class of twice-iterated Hahn-Appell sequences of polynomials, Filomat (2025), 39 (25), 8689-8708.
9. S.S. Isah, A. Fernandez, **M.A. Özarslan,** Bivariate substitutions from analytic kernels to fractional differintegral operators, Commun. in Nonlinear Sci. and Num. Simul. (2025) (146), 108774.
10. Z. Özat, B. Çekim, **M.A. Özarslan,** Laguerre-type general-Appell polynomials, Int. Trans Spec. Funct. (2025) 36 (7) , pp.571-589.
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12. N. Biricik, B. Çekim, **M.A. Özarslan,** Sequences of twice-iterated Δ_w-Gould-Hopper Appell polynomials, J. Taibah Univ. Sci. (2024) 18 (1), 2286714.
13. M. Kara, **M.A. Özarslan,** Parametric generalization of the *q*-Meyer-König-Zeller operators, Chaos Sol.& Fract. (2024) (185), 115077.
14. İ.O. Elidemir, **M.A. Özarslan,** S.C. Buranay, On the analysis of fractional calculus operators with bivariate Mittag Leffler function in the kernel, J. of Appl. Math. Comput. (2024) 70 (2) , pp.1295-1323.
15. N. Biricik, **M.A. Özarslan,** B. Çekim, Laguerre type twice-iterated Appell polynomials, Turkish J. of Mathematics (2024) 48 (2).
16. S.Y. Güngör, Çekim, **M.A. Özarslan,** Approximation results for the operators involving beta function and the Boas-Buck-Sheffer polynomials, Filomat (2024) 38 (1) , pp.171-187.
17. **M.A. Özarslan,** M.Çil, Chlodowsky variant of generalised Jain-Appell operators, Filomat (2024) 38 (20), pp.7269-7288.
18. **M.A. Özarslan,** M. Kara, Korovkin type theorem for the functions defined in the Prism and the corresponding Meyer-Konig and Zeller operators, Filomat (2024) 38 (32) , pp.11501-11516.
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20. **M.A. Özarslan,** Approximating fractional calculus operators with general analytic kernel by Stancu variant of modified Bernstein-Kantorovich operators, Math. Meth. Appl. Sci. (2023) 47 (5) , pp.3809-3825.
21. S.S. Isah, A. Fernandez, **M.A. Özarslan,** On univariate fractional calculus with general bivariate analytic kernels, Comput. and Appl. Math. (2023) 42 (5), 228.
22. S.S. Isah, A. Fernandez, **M.A. Özarslan,** On bivariate fractional calculus with general univariate analytic kernels, Chaos Sol.& Fract. (2023) (171), 113495.
23. S.C. Buranay, **M.A. Özarslan,** S.S. Falahhesar, Hybrid Operators for Approximating Nonsmooth Functions and Applications on Volterra Integral Equations with Weakly Singular Kernels, Numerical Func. Anal. and Opt. (2023) 44 (1) , pp.36-63.
24. G. Baran, Z. Özat, B. Çekim, **M.A. Özarslan,** Some properties of degenerate Hermite Appell polynomials in three variables, Filomat (2023) 37 (19), pp.6537-6567.

25. M. Bozer, **M.A. Özarslan,** H. Demez, Solutions of certain class of non-linear time-fractionaldiffusion equations via the fractional differential transform method, Miskolc Math. Notes (2023) 24 (2), pp.673-686.
26. C. Kürt, **M.A. Özarslan,** Bivariate k-Mittag-Leffler functions with 2D-k-Laguerre-Konhauser polynomials and corresponding k-Fractional operators, Miskolc Math. Notes (2023) 24 (2), pp.861-876.
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124. A.Altın, E. Erkuş and **M.A. Özarslan**, Families of linear generating functions for polynomials in two variables, *Integral Transforms and Special Functions*, 17 (5) (2006), 315-320.

125. O. Duman, **M. A. Özarslan**, O. Doğru, On integral type generalizations of positive linear operators, *Studia Math.* 174 (1) (2006), 1-12.

126. **M. A. Özarslan**, O. Duman and O. Doğru, A-Statistical convergence for a class of positive linear operators, *Rev. Anal. Numer. Theor. Approx*., 35 (2) (2006), 161-172.

127. **M. A. Özarslan**, O. Duman and O. Doğru, Rates of *A*-statistical convergence of approximating operators, *Calcolo,* 42 (2) (2005), 93-104.

128. **M. A. Özarslan** and A. Altin, Some families of generating functions for the multiple orthogonal polynomials associated with modified Bessel K- functions, *J. of Math. Anal. Appl.,* 297 (1) (2004), 186-193 .

129. O. Doğru, **M.A. Özarslan**, F. Taşdelen, On positive operators involving a certain class of generating functions, *Stud. Sci. Math. Hungarica,* 41 (4)(2004), 415-429.

Citation Report (Web of Science)

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Editorial

Guest Editor:

Journal: Fractal and Fractionals,

Special Issue "Fractional Calculus and Special Functions with Applications"(2020)

Prof. Dr. Mehmet Ali Ozarslan
Asst. Prof. Dr. Arran Fernandez
Prof. Dr. Ivan Area
Guest Editors

Reviewer: AMS-Mathematical Reviews.

Edidorial Board Member: Montes Taurus Journal of Pure and Applied Mathematics (MTJPAM) (https://mtjpamjournal.com/abstracting-and-indexing/)

Refereeing

- J. of Math. Anal. Appl. (SCIE)
- J. Comput. Appl. Math. (SCIE)
- Appl. Math. Lett. (SCIE)
- Comput. Math. Appl. (SCIE)
- Taiwanese J. Math. (SCIE)
- Numerical Algorithms (SCIE)
- Math.Methods. Appl. Sci. (SCI-Expanded)
- Integral Transforms and Special Functions (SCI-Expanded)
- Math. Inequal. Appl. (SCI-Expanded)
- Demonsratio Mathematica (SCIE)
- Central Eur. J. of Math. (SCI-Expanded)
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- Math. Comput. Modelling (SCI-Expanded)
- Studia Sci. Math. Hungar. (SCI-Expanded)
- Positivity (SCI-Expanded)
- Revista de la Real Academia de Ciencias Exactas, Físicas y Naturales. Serie A. Matemáticas(SCI-Expanded)
- Miskolc Math. Notes (SCI-Expanded)
- Information Sciences (SCI-Expanded)

- Appl. Math. Comput (SCI-Expanded)
- Abst. Appl. Anal. (SCI-Expanded)
- Journal of Function Spaces and Applications (SCI-Expanded)
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- J. of Applied Math. (SCI-Expanded)
- J. of Complex Analysis (SCI-Expanded)
- Indian J. Pure and Appl. Math. (SCI-Expanded)
- Journal of Inequalities and Applications (SCI-Expanded)
- Advances in Difference Eq. (SCI-Expanded)
- Afrika Matematica (AMS-MR)
- Journal of Calculus of Variations (AMS-MR)
- Journal of Inequalities and Special Functions (AMS-MR)

Professional Memberships

- AMS (2005-…)
- World Scientific and Engineering Academy and Society - WSEAS (2006-2010)

Projects

- Type B (Supported by Ministry of National Education and Culture)
  Project Title: New Techniques for Finding Generating Function
  Principle Investigator: Mehmet Ali Özarslan
  Investigator: Emine Özergin (April 2009- 2011)

- Type A (Supported by Eastern Mediterranean University)
  Project Title: q-Parametric Positive Linear Operators

  Principle Investigator: Nazım Mahmudov
  Investigators: Mehmet Ali Özarslan, Pembe Sabancıgil (September 2007- 2009)

- Type B (Supported by Ministry of National Education and Culture)
  Project Title: Solution of Initial value problem by q-Meyer-König-Zeller operators
  Principle Investigator: Nazım Mahmudov
  Investigators: Mehmet Ali Özarslan, Hüseyin Aktuğlu (November 2007- January2009

International Contributed Talks

- **M.A. Özarslan,** *Fractional P-L Exponential Functions, INTERNATIONAL WORKSHOP ON MODERN PROBLEMS OF ANALYSIS, OPTIMIZATION, APPROXIMATION AND THEIR APPLICATIONS (Invited Speaker)*

- **M.A. Özarslan,** Incomplete Hermite Appell Polynomials and Their Properties, GFSNP2024, Antalya 2024.

- **M.A. Özarslan,** *Approximating Fractional Calculus Operators with General Analytic Kernel by Stancu Variant of Modified Bernstein-Kantorovich Operators*, ATSF2024 (invited speaker)

- **M.A. Özarslan** , Certain families of trivariate Mittag-Leffler functions and corresponding fractional calculus. (MICOPAM 2024)

- **M.A. Özarslan** , On the approximation to fractional calculus operators with multivariate MittagLeffler function in the kernel. MICOPAM 2023, (invited speaker)

- **M.A. Özarslan,** Approximating Fractional Calculus Operators with General Analytic Kernel by Stancu Variant of Modified Bernstein-Kantorovich Operators, International Conference on Mathematical Analysis and Applications in Science and Engineering – ICMA2SC'22, June 27-29, 2022.

- **M.A. Özarslan,** Δ_h-Gould-Hopper Appell Polynomials, The Mediterranean International Conference of Pure&Applied Mathematics and Related Areas, Evry Paris-France, August 26-29, 2019.(Invited Speaker)

- **M.A. Özarslan,** Jain-Appell Operators and Their Approximation Properties, The Mediterranean International Conference of Pure&Applied Mathematics and Related Areas, Antalya-Turkey, October 26-29, 2018.

- **M.A. Özarslan**, Hermite-based unified Apostol-Bernoulli, Euler and Genocchi Polynomials**,'**International Congress in Honour of Professor Hari M. Srivastava', Uludağ University, Bursa-Turkey, August 23-26, 2012.

- **M.A. Özarslan**, B. Yılmaz, A set of Finite Order Differental Equations for the Appell Polynomials, 'International Congress on Computational and Applied Mathematics' – ICCAM 2012, Gent-Belgium, July 09-13, 2012.

- **M.A. Özarslan,** Apostol-Lagrange-Bernoulli and Apostol-Lagrange-Euler polynomials, Intenational Conference on Applied Mathematics and Algebra, İstanbul-Turkey, June 29-July 2, 2011.

- **M. A. Özarslan**, Some Families of Generating Functions for the Extended Srivastava Polynomials, 'International Congress in Honour of Professor H. M. Srivastava on his 70th Birth Anniversary', Bursa-Turkey, August 18-21, 2010.

- A. Altın, O. Doğru and **M. A. Özarslan**, On the Approximation Properties of Bivariate Bleimann, Butzer and Hahn Operators 'WSEAS VIII. International Conference on Applied Mathematics', Tenerife-Spain, December 16-18, 2005.

- A. Altın, O. Doğru and **M. A. Özarslan**, Rates of Convergence of Meyer-König and Zeller Operatos Based on q-Integers, 'WSEAS VIII. International Conference on Applied Mathematics', Tenerife-Spain, December 16-18, 2005.

- A. Altın, O. Doğru and **M. A. Özarslan**, Kantorovich Type Generalization of Positive Linear Operators, 'WSEAS VI. International Conference on Applied Mathematics', Corfu-Greece, August 17-19, 2004.

Courses Taught

Course Code	Undergraduate	Course Code	Graduate
MATE 105	Analysis I	MATH 501	Analysis
MATE 205	Analysis III	MATH 564	Special Functions
MATE 206	Analysis IV	MATH 554	Special Functions by Continued Fractions
MATE 301	Complex Analysis I	MATH 502	Complex Analysis
MATE 302	Complex Analysis II	MATH 553	Approximation Properties of Linear Positive Operators
MATE 403	Applied Mathematics	MATH 551	Selected Topics in Analysis
MATH 337	Theory of Partial Differential Equations	MATH 563	Selected Topics in Functional Analysis
MATE 202	Differential Equations	MATH576	Fractional Calculus
MATE 491	Bernstein Polynomials	MATH557	Functions of Several Variables
MATE 217	Linear Algebra I	MATH653	Korovkin Type Approximation Theory
MATE 218	Linear Algebra II	MATH670	Nabla Fractional Calculus
MATH 241	Linear Algebra and Differential Equations		
MATE 303	Differential Geometry I		
MATE 304	Differential Geometry II		
MATH 151	Calculus I		
MATH 152	Calculus II		
MATH337	Theory of Partial Differential Equation		
MATE 155	Abstract Mathematics		

Administirative Duties in the University

- Dean of Faculty of Arts and Sciences (2017-present)
- Member of Univ. Budget Com. (10/09/2024 -present)
- Member of University Executive Board (2017- present)
- Senate member (2017- Aug. 2025)
- Member of Administirative Board of Faculty of Arts and Sciences in Eastern Mediterranean University (2010-2011), (2013-present)
- Member of Research Advisory Board. (Representative of Faculty of Art and Sciences) in Eastern Mediterranean University (2010-2017)
- Member of Administirative Board of "Mobile Heath Research and Application Center (2014-present).
- Member of Gradute Committee, Department of Mathematics, Eastern Mediterranean University, 2005-2011.
- Member of the Curriculum Committee, Department of Mathematics, Eastern Mediterranean University, 2005-2011.
- Head of Gradute Committee, Department of Mathematics, Eastern Mediterranean University, 2011-2017.

Administirative Duties in the Conferences or Competitions

- Member of Program Committee, "6 th WSEAS International Conference on Applied Mathematics", Corfu, Greece, August, 2004.
- Member of Program Committee, "8 th WSEAS International Conference on Applied Mathematics'',Tenerife, Canary Islands, Spain, December, 2005.
- Member of Program Committee, "12 th WSEAS International Conference on Applied Mathematics", Cairo, Egypt, December, 2007.
- Member of the Local Organizing Committee, "Mathematical Analysis, Differential Equations and their Applications", Gazimağusa, KKTC, September, 2008.
- Conference Chair: ''International Congress in Honour of Professor Hari M. Srivastava", Uludağ University, Bursa-Turkey, August 23-26, 2012.
- Onay Fadıl Demirciler Mathematics Competition Referee, (2006,present).
- Special Session Organizer: ATSF 2024 Conference - 8th Series TOBB Economics and Technology University September 4-7, 2024, Ankara – Türkiye.("*Appell Polynomials and Approximation Theory with Applications*")

Book chapter translation:

Original: Fundamentals of Differential Equations, R.K. Nagle, E.B. Saff, A.D. Snider, Eight edition, Pearson.

Turkish: Diferensiyel Denklemlerin Temelleri,

Çeviri Editörü: Ogün Doğru,

Yayınevi: Nobel yayınevi,

ISBN: 978-605-133-551-3,

Bölüm 9: Lineer Sistemler için Matris Metotları (Mehmet Ali Özarslan)

Book Chapters:

1. E.G.Lekesiz, B.Çekim, **M.A.Özarslan**, The Generalized Finite Bivariate Biorthogonal M-Jacobi Polynomials, O.Duman,E.Erkus-Duman(eds.), *Approximation Theory and Special Functions*, SpringerProceedingsinMathematics&Statistics503 (2025).
2. Z.Özat, M.A. Özarslan, B.Çekim, General Families of Cosine and Sine Appell Polynomials, *Approximation Theory and Special Functions*, SpringerProceedingsinMathematics&Statistics503 (2025).

Awards

- Publication Awards, Eastern Mediterranean University, 2005-...
- TÜBİTAK-UBYT Program (Publication Award), 2004-...