

Asst. Prof. ÖMER YAPMAN

Personal Information

Office Phone: [+90 446 224 3032](tel:+904462243032) Extension: 40090-40127

Email: oyapman@erzincan.edu.tr

Web: <https://avesis.ebyu.edu.tr/oyapman>

Address: Erzincan Binali Yıldırım Üniversitesi Fen-Edebiyat Fakültesi Matematik Bölümü Yalnızbağ Yerleşkesi ERZİNCAN

International Researcher IDs

ScholarID: szHTTs0AAAAJ

ORCID: 0000-0003-3117-2932

Publons / Web Of Science ResearcherID: AAE-8516-2020

ScopusID: 57206671600

Yoksis Researcher ID: 221795

Education Information

Doctorate, Erzincan Binali Yıldırım University, Fen Bilimleri Enstitüsü, Mathematics, Turkey 2015 - 2022

Postgraduate, University of Leicester, Department of Mathematics, Financial Mathematics and Computation, England 2013 - 2014

Undergraduate, Gazi University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2005 - 2009

Foreign Languages

English, B2 Upper Intermediate

Certificates, Courses and Trainings

Vocational Training, Eğitimcilerin Eğitimi, EBYÜ Sürekli Eğitim Uygulama ve Araştırma Merkezi, 2022

Education Management and Planning, Pedagojik Formasyon Eğitimi, GAZİ ÜNİVERSİTESİ, 2011

Dissertations

Doctorate, Uniformly convergent difference schemes for singularly perturbed Volterra delay-integro-differential equations, Erzincan Binali Yıldırım University, Fen Bilimleri Enstitüsü, Mathematics, 2022

Postgraduate, Determination of Optimal Weights for a Health Insurance Portfolio, University Of Leicester, Department Of Mathematics, Financial Mathematics, 2014

Research Areas

Mathematics, Differential Equations, Integral Equations, Numerical Analysis, Natural Sciences

Academic Titles / Tasks

Assistant Professor, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2022 - Continues
Research Assistant PhD, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2022 - 2022
Research Assistant, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2015 - 2022

Academic and Administrative Experience

Lead Coordinator, Erzincan Binali Yildirim University, Pedagojik Formasyon Koordinatörlüğü, 2024 - Continues
Member of the Senate, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, 2024 - Continues
Uygulama ve Araştırma Merkezi Yönetim Kurulu Üyesi, Erzincan Binali Yildirim University, Kariyer Geliştirme Uygulama Ve Araştırma Merkezi, 2023 - Continues
Head of Department, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2022 - Continues
Vice Dean, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, 2022 - Continues
Bölüm Akademik Teşvik Değerlendirme Komisyonu Üyesi, Erzincan Binali Yildirim University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2020 - Continues
Erzincan Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2015 - Continues
Erzincan Üniversitesi, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2016 - 2017

Courses

Numerical Solutions of Delayed Differential Equations-II, Postgraduate, 2023 - 2024
Differential Equations 2, Undergraduate, 2023 - 2024
Graduation Thesis, Undergraduate, 2023 - 2024
Teaching Practice, Undergraduate, 2023 - 2024
Numerical Analysis 2, Undergraduate, 2023 - 2024, 2022 - 2023
Vocational Foreign Language 2, Undergraduate, 2023 - 2024
Iteration Methods of Differential and Difference Equations-II, Postgraduate, 2023 - 2024
Document Preparation with LaTeX, Postgraduate, 2023 - 2024
Vocational Foreign Language 1, Undergraduate, 2023 - 2024, 2022 - 2023
Numerical Analysis 1, Undergraduate, 2023 - 2024, 2022 - 2023
Differential Equations 1, Undergraduate, 2023 - 2024, 2022 - 2023
Iterative Methods for Differential and Difference Equations-I, Postgraduate, 2023 - 2024
Numerical Analysis, Undergraduate, 2022 - 2023
Differential Equations, Undergraduate, 2022 - 2023

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Method of Exact Difference Schemes for the Numerical Solution of Parameterized Singularly Perturbed Problem**
YAPMAN Ö., KUDU M., Amiraliyev G. M.
Mediterranean Journal of Mathematics, vol.20, no.3, 2023 (SCI-Expanded)
- II. **An efficient numerical method for a singularly perturbed Volterra-Fredholm integro-differential equation**
Durmaz M. E., YAPMAN Ö., KUDU M., Amiraliyev G. M.
Hacettepe Journal of Mathematics and Statistics, vol.52, no.2, pp.326-339, 2023 (SCI-Expanded)
- III. **Convergence analysis of the homogeneous second order difference method for a singularly perturbed Volterra delay-integro-differential equation**
YAPMAN Ö., AMİRALİ G.
Chaos, Solitons and Fractals, vol.150, 2021 (SCI-Expanded)

- IV. **A novel second-order fitted computational method for a singularly perturbed Volterra integro-differential equation**
Yapman Ö., Amiraliyev G.
INTERNATIONAL JOURNAL OF COMPUTER MATHEMATICS, vol.97, no.6, pp.1293-1302, 2020 (SCI-Expanded)
- V. **Convergence analysis of fitted numerical method for a singularly perturbed nonlinear Volterra integro-differential equation with delay**
Yapman Ö., Amiraliyev G. M., Amirali I.
JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, vol.355, pp.301-309, 2019 (SCI-Expanded)
- VI. **ON THE VOLTERRA DELAY-INTEGRO-DIFFERENTIAL EQUATION WITH LAYER BEHAVIOR AND ITS NUMERICAL SOLUTION**
Amiraliyev G., Yapman Ö.
MISKOLC MATHEMATICAL NOTES, vol.20, pp.75-87, 2019 (SCI-Expanded)
- VII. **A fitted approximate method for a Volterra delay-integro-differential equation with initial layer**
Amiraliyev G., Yapman Ö., Kudu M.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.48, pp.1417-1429, 2019 (SCI-Expanded)

Refereed Congress / Symposium Publications in Proceedings

- I. **Second Order Numerical Method for a Singularly Perturbed Volterra Integro-Differential Equation**
YAPMAN Ö., AMİRALİ G.
7th International Conference on Applied Analysis and Mathematical Modeling ICAAMM18, İstanbul, Turkey, 20 - 24 June 2018, pp.305
- II. **Fitted Difference Method For Singularly Perturbed Volterra Delay Integro-Differential Equation**
AMİRALİ G., YAPMAN Ö.
Caucasian Mathematics Conference II (CMC II), Van, Turkey, 22 - 24 August 2017, pp.31-32
- III. **A Fitted Numerical Method For A Quasilinear Singularly Perturbed Volterra Delay-Integro-Differential Equation**
YAPMAN Ö., AMİRALİYEVE G., AMİRALİ İ.
International Conference on Differential and Difference Equations & Applications 2017, Amadora, Portugal, 5 - 09 June 2017, pp.160
- IV. **CONVERGENCE ANALYSIS OF DIFFERENCE METHOD FOR VOLTERRA DELAY INTEGRO DIFFERENTIAL EQUATION**
AMİRALİ G., YAPMAN Ö.
2nd International Conference on Analysis and Its Applications (ICAA2016), Kırşehir, Turkey, 12 - 15 July 2016

Scientific Refereeing

TURKISH JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, June 2024
 JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, Journal Indexed in SCI-E, February 2024
 International Journal of Applied and Computational Mathematics, Other Indexed Journal, July 2023
 JOURNAL OF APPLIED MATHEMATICS AND COMPUTING, Journal Indexed in SCI-E, May 2023
 MISKOLC MATHEMATICAL NOTES, Journal Indexed in SCI-E, March 2023
 JOURNAL OF COMPUTATIONAL AND APPLIED MATHEMATICS, Journal Indexed in SCI-E, December 2022
 BOUNDARY VALUE PROBLEMS, Journal Indexed in SCI-E, November 2022
 HELIYON, Journal Indexed in SCI-E, August 2022
 CMES-2022, Conference Paper (Full Text), July 2022
 JOURNAL OF APPLIED MATHEMATICS AND COMPUTING, Journal Indexed in SCI-E, April 2022
 JOURNAL OF APPLIED MATHEMATICS AND COMPUTING, Journal Indexed in SCI-E, January 2022
 TURKISH JOURNAL OF MATHEMATICS, Journal Indexed in SCI-E, December 2021

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Journal Indexed in SCI-E, November 2021
SAKARYA UNIVERSITY JOURNAL OF SCIENCE, National Scientific Refreed Journal, May 2021
Gazi University Journal of Science, Journal Indexed in ESCI, March 2020
Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, January 2020
Journal of Computational and Applied Mathematics, SCI Journal, August 2019

Metrics

Publication: 11
Citation (WoS): 79
Citation (Scopus): 80
H-Index (WoS): 5
H-Index (Scopus): 5

Congress and Symposium Activities

Van Gölü Uygulamalı Matematik ve Mühendislik Yaz Okulu, Attendee, Van, Turkey, 2022
International Congress of Mathematicians ICM 2018, Attendee, Rio-De-Janeiro, Brazil, 2018
7th International Conference on Applied Analysis and Mathematical Modeling ICAAMM18, Attendee, İstanbul, Turkey, 2018
Caucasian Mathematics Conference II (CMC II), Attendee, Van, Turkey, 2017
International Conference on Differential and Difference Equations & Applications 2017, Attendee, Amadora, Portugal, 2017
2nd International Conference on Analysis and Its Applications, Attendee, Kırşehir, Turkey, 2016

Scholarships

YLSY, Ministry of Education, 2010 - 2014

Awards

Yapman Ö., ÇAKMAK GÜREL Z., Yayın Teşvik Ödülü, Tübitak, December 2023
Yapman Ö., Yayın Teşvik Ödülü, Tübitak, October 2023
Yapman Ö., Amiralı G., Yayın Teşvik Ödülü, Tübitak, December 2021
Yapman Ö., Amiralı G., Yayın Teşvik Ödülü, Tübitak, February 2020
Yapman Ö., Amiralı G., Yayın Teşvik Ödülü, Tübitak, October 2019
Yapman Ö., Amiralı G., Yayın Teşvik Ödülü, Tübitak, September 2019