

## Asst. Prof. ÖMER YAPMAN

### Personal Information

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**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

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  
Lead Coordinator, Erzincan Binali Yildirim University, Pedagojik Formasyon Koordinatörlüğü, 2024 - 2024  
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

## Jury Memberships

Doctorate, Doctorate, Van Yüzüncü Yıl Üniversitesi, June, 2024

## 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.  
Haceteppe 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., AMİRALİYEV 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

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, Journal Indexed in ESCI, August 2024  
 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