

## Asst. Prof. ELİF NURAY YILDIRIM

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### International Researcher IDs

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## Education Information

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- I. Doctorate, Firat University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2016 - 2021
- II. Postgraduate, Central European University, Hungary 2012 - 2013
- III. Postgraduate, Afyon Kocatepe University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2011 - 2013
- IV. Undergraduate, Afyon Kocatepe University, Fen-Edebiyat Fakültesi, Matematik Bölümü, Turkey 2007 - 2011

## Foreign Languages

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- I. English, C1 Advanced

## Dissertations

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- I. Doctorate, Bazı Diferansiyel Denklemlerin ÜreticiÇekirdekli Hilbert Uzayı Metodu ile SayısalÇözümleri, Firat University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2021
- II. Postgraduate, Sturm-liouville problems and boolean differential equations, Afyon Kocatepe University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2013
- III. Postgraduate, Sturm-liouville problems and boolean differential equations, Central European University, 2013

## Research Areas

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Differential Equations, Functional Analysis

## Academic Titles / Tasks

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- I. Assistant Professor, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2022 - Continues
- II. Research Assistant, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2013 - 2022

## Academic and Administrative Experience

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- I. Rectorate Commissioner, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2024 - Continues

- II. Rectorate Commissioner, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2024 - Continues
- III. Öğrenci Toplulukları Komisyon Üyesi, Istanbul Commerce University, İnsan ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2019 - Continues
- IV. Erasmus Program Department Coordinator, Istanbul Commerce University, İnsan Ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2016 - Continues

## Courses

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- I. Lineer Cebir, Undergraduate, 2024 - 2025
- II. Fonksiyonel Analiz 1, Undergraduate, 2023 - 2024
- III. Matematik 1, Undergraduate, 2023 - 2024
- IV. Fonksiyonel Analiz 2, Undergraduate, 2022 - 2023
- V. Vocational English 1, Undergraduate, 2023 - 2024
- VI. Mathematics 1, Undergraduate, 2023 - 2024
- VII. Kompleks Fonksiyonlar Teorisi, Postgraduate, 2021 - 2022

## Published journal articles indexed by SCI, SSCI, and AHCI

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- I. **Viscoelastic effects on the double-diffusive oscillatory flow in a fluid-saturated porous layer**  
Raghunatha K., Vinod Y., Inc M., Yildirim E. N.  
Modern Physics Letters B, vol.37, no.36, 2023 (SCI-Expanded)
- II. **Reproducing Kernel Functions And Homogenizing Transforms**  
Yildirim E., Akgul A., Inc M.  
Thermal Science, vol.25, 2021 (SCI-Expanded)
- III. **Complexiton and solitary wave solutions of the coupled nonlinear Maccari's system using two integration schemes**  
Inc M., Aliyu A. I., Yusuf A., Baleanu D., Nuray E.  
Modern Physics Letters B, vol.32, no.2, 2018 (SCI-Expanded)

## Articles Published in Other Journals

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- I. **Statistical Convergence of Matrix Sequences**  
NURAY YILDIRIM E.  
Konuralp journal of mathematics, vol.12, no.1, pp.74-79, 2024 (Peer-Reviewed Journal)
- II. **Reproducing kernel method for the solutions of non-linear partial differential equations**  
Yildirim E., Akgül A., Inc M.  
Arab Journal of Basic and Applied Sciences, vol.28, no.1, pp.80-86, 2021 (Scopus)
- III. **New Reproducing Kernels and Homogenizing Transforms for some Boundary Value Problems**  
NURAY YILDIRIM E.  
İstanbul Ticaret Üniversitesi Fen Bilimleri Dergisi, vol.19, no.38, pp.234-243, 2021 (Peer-Reviewed Journal)
- IV. **On Solutions of a Higher Order Nonhomogeneous Ordinary Differential Equation**  
YILDIRIM E. N., AKGÜL A.  
Fundamental journal of mathematics and applications (Online), vol.3, no.2, pp.153-160, 2020 (Peer-Reviewed Journal)
- V. **Sosyal Medya ve Edebiyat: İçeriden Dışarıya Bir Bakış Denemesi**  
NURAY E.

HECE: AYLIK EDEBIYAT DERGISI, no.213, pp.106-113, 2014 (Non Peer-Reviewed Journal)

VI. **Boyalı Çalgı**

NURAY E.

HECE: AYLIK EDEBIYAT DERGISI, no.204, pp.132-134, 2013 (Non Peer-Reviewed Journal)

## Books & Book Chapters

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I. **O Korkunç Mahâret**

Nuray Yıldırım E.

İz Yayıncılık, İstanbul, 2017

## Refereed Congress / Symposium Publications in Proceedings

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I. **RKHS method for nonhomogenous initial value problems**

NURAY YILDIRIM E.

10th INTERNATIONAL CONFERENCE ON ENGINEERING & NATURAL SCIENCES, Turkey, 16 May 2021

II. **On Solutions of a Higher Order Nonhomogeneous Ordinary Differential Equation By a Numerical Method**

NURAY YILDIRIM E.

1. INTERNATIONAL CONGRESS ON MATHEMATICS AND GEOMETRY, Ankara, Turkey, 09 December 2020

III. **Reproducing Kernel Functions and Homogenizing Transforms for Solution of Higher Order Nonlinear Ordinary Differential Equations**

NURAY YILDIRIM E.

International Conference on Mathematical Modelling, Applied Analysis and Computation, Jaipur, India, 7 - 09 August 2020

IV. **Approximate Solutions of Non-Linear Partial Differential Equations by a new Method**

NURAY YILDIRIM E., AKGÜL A., İNÇ M.

INTERNATIONAL CONFERENCE ON COMPUTATIONAL METHODS IN APPLIED SCIENCES, İstanbul, Turkey, 12 - 16 July 2019

## Activities in Scientific Journals

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- I. İstanbul Ticaret Üniversitesi Fen Bilimleri Dergisi, Foreign Language Redactor, 2020 - Continues

## Scientific Refereeing

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- I. Journal of Universal Mathematics, Other Indexed Journal, December 2024  
II. Research Updates in Mathematics and Computer Science, Chapter Scientific / Professional Book Published by Renowned Publishing Houses, March 2024  
III. Journal of Universal Mathematics, Other Indexed Journal, February 2024

## Artistic Activity

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- I. Nuray Yıldırım E., 6. Uluslararası Dostluk Film Festivali, Festival, October 2024

- II. Nuray Yıldırım E., 15. International İstanbul Poetry and Literature Festival, Festival, September 2024
- III. NURAY YILDIRIM E., International Young Poets Meeting, December 2016
- IV. NURAY YILDIRIM E., TMD Analiz Yaz okulu, July 2016
- V. NURAY YILDIRIM E., Sosyal Medya ve Edebiyat (Panel), April 2014