

## Asst. Prof. GÜLİSTAN İSKENDEROĞLU

### Personal Information

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### International Researcher IDs

ScholarID: EP6OKAEAAAAJ

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Publons / Web Of Science ResearcherID: AAK-1792-2020

ScopusID: 57215083412

Yoksis Researcher ID: 343541



### Education Information

Doctorate, Istanbul Commerce University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey  
2013 - 2020

Postgraduate, L.N. Gumilev Avrasya Devlet Üniversitesi, Mechanics and Mathematics Faculty,  
Department of Fundamental Mathematics, Kazakhstan 2011 - 2013

Undergraduate, Kuzey Kazakistan Devlet Üniversitesi, Faculty of Information Technologies,  
Mathematics, Kazakhstan 2007 - 2011

### Foreign Languages

English, C1 Advanced

Russian, C2 Mastery

### Research Areas

Differential Equations, Topological Groups, Lie Groups

### Academic Titles / Tasks

Assistant Professor, Istanbul Commerce University, İnsan ve Toplum Bilimleri Fakültesi, Matematik Bölümü, 2022 -  
Continues

Lecturer PhD, Istanbul Commerce University, Mimarlık ve Tasarım Fakültesi, Mimarlık Bölümü, 2020 - 2022

Lecturer PhD, Istanbul Sabahattin Zaim University, 2020 - 2022

Research Assistant, L.N. Gumilev Avrasya Devlet Üniversitesi, 2012 - 2013

### Courses

Bitirme Projesi, Undergraduate, 2023 - 2024

Kompleks Analiz 2, Undergraduate, 2023 - 2024

Reel Analiz 1, Undergraduate, 2023 - 2024

Matematik 2, Undergraduate, 2023 - 2024  
Analitik Geometri, Undergraduate, 2023 - 2024  
Matematik 1, Undergraduate, 2023 - 2024  
Topoloji 1, Undergraduate, 2023 - 2024  
Kompleks Analiz 1, Undergraduate, 2023 - 2024  
Kompleks Analiz 2, Undergraduate, 2022 - 2023  
Soyut Matematik, Undergraduate, 2023 - 2024  
Topoloji 1, Undergraduate, 2022 - 2023  
Kompleks Analiz 1, Undergraduate, 2022 - 2023  
Reel Analiz 1, Undergraduate, 2022 - 2023  
Matematik 2, Undergraduate, 2021 - 2022  
Topoloji 1, Undergraduate, 2021 - 2022  
Matematik 1, Undergraduate, 2021 - 2022  
Matematik 2, Undergraduate, 2020 - 2021  
Matematik, Undergraduate, 2020 - 2021  
Matematik 1, Undergraduate, 2020 - 2021

## Advising Theses

GÜLİSTAN İ., Probabilistic seismic hazard assessment of southeastern Kazakhstan with application of GIS technologies, Doctorate, A.KUDABAYEVA(Student), Continues

## Jury Memberships

Doctorate, Doctorate, İstanbul Ticaret Üniversitesi, February, 2023

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

- I. **Application of some nonclassical methods for p-defocusing complex Klein–Gordon equation**  
Yokus A., İSKENDEROĞLU G., KAYA D.  
Optical and Quantum Electronics, vol.55, no.5, 2023 (SCI-Expanded)
- II. **Chirped self-similar pulses and envelope solutions for a nonlinear Schrödinger's in optical fibers using Lie group method**  
İSKENDEROĞLU G., KAYA D.  
Chaos, Solitons and Fractals, vol.162, 2022 (SCI-Expanded)
- III. **Symmetry analysis of initial and boundary value problems for fractional differential equations in Caputo sense**  
İSKENDEROĞLU G., KAYA D.  
Chaos, Solitons and Fractals, vol.134, 2020 (SCI-Expanded)
- IV. **Lie group analysis for initial and boundary value problem of time-fractional nonlinear generalized KdV partial differential equation**  
KAYA D., İSKENDEROĞLU G.  
Turkish Journal of Mathematics, vol.43, no.3, pp.1263-1275, 2019 (SCI-Expanded)

## Articles Published in Other Journals

- I. **Lie symmetry analysis of Caputo time-fractional  $K(m,n)$  model equations with variable coefficients**  
İskenderoğlu G., Kaya D.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES, vol.42, no.3, pp.885-899, 2024 (ESCI)

- II. **Symmetry Analysis and Conservation Laws of the Boundary Value Problems for Time-Fractional Generalized Burgers' Differential Equation**  
ISKENDERÖGLÜ G., KAYA D.  
Fundamental journal of mathematics and applications (Online), vol.2, no.2, pp.139-147, 2019 (Peer-Reviewed Journal)
- III. **ON LIE GROUP ANALYSIS OF BOUNDARY VALUE PROBLEM WITH CAPUTO FRACTIONAL DERIVATIVE**  
İskenderoğlu G., Kaya D.  
Sigma Journal of Engineering and Natural Sciences, vol.10, pp.369-376, 2019 (Scopus)
- IV. **Symmetry solution on fractional equation**  
ISKANDAROVA G., KAYA D.  
An International Journal of Optimization and Control: Theories & Applications (IJOCTA), vol.7, no.3, pp.255-259, 2017 (Peer-Reviewed Journal)

### Refereed Congress / Symposium Publications in Proceedings

- I. **Euler-Bernoulli beam equation: invariant equations and solutions**  
İSKENDERÖĞLU G., KAYA D.  
ICAAM 2022, Turkey, 31 October - 06 November 2022
- II. **On Lie group analysis of boundary value problem with Caputo fractional derivative**  
İSKENDERÖĞLU G., KAYA D.  
ICOMAA 2019, Turkey, 3 - 05 May 2019
- III. **Symmetry Analysis and Conservation Laws of the Boundary Value Problems for Time-Fractional Generalized Burgers' Differential Equation**  
ISKANDAROVA G., KAYA D.  
ICAA 2018, Turkey, 11 - 14 September 2018
- IV. **An application for time-fractional  $K(m,m)$  model equations by symmetry method**  
ISKANDAROVA G., KAYA D.  
ICAAM 2018, Cyprus (Kkctc), 6 - 09 September 2018
- V. **Lie Group Analysis and Galilean Group Analysis for Partial Differential Equations**  
ISKANDAROVA G., KAYA D.  
ICOMAA 2018, Turkey, 11 - 13 May 2018
- VI. **Symmetry solution on fractional equation**  
ISKANDAROVA G., KAYA D.  
CMES-2017, Turkey, 20 - 22 May 2017
- VII. **Group analysis method for time-fractional nonlinear generalized Burgers differential equation**  
İSKENDERÖĞLU G., KAYA D.  
SDEA-III, Turkey, 14 - 17 August 2017
- VIII. **Nikolskii's inequality for Net spaces**  
ISKANDAROVA G.  
International scientific conference of students, graduate students and young scientists "Lomonosov-2013", Kazakhstan, 24 - 26 May 2013, vol.1, pp.1
- IX. **Various metrics inequality in Net spaces**  
ISKANDAROVA G.  
V Republican Student Scientific Conference on mathematics, mechanics and computer science, 2013, Kazakhstan, 18 - 21 April 2013

### Supported Projects

Iskenderođlu G., TUBITAK Project, Analysis of Dynamic and Topological Symmetries in Next Generation Neural Population Models, 2024 - 2025

Iskenderođlu G., Project Supported by Other Official Institutions, Lineer Olmayan Kısmi diferansiyel denklemler için Klasik Dönüşüm Yöntemleri ve Uygulamaları, 2018 - 2019

## **Scientific Refereeing**

FRACTALS, SCI Journal, April 2020

## **Scholarships**

Türkiye Bursları, Other Government Agencies, 2013 - 2019

Targeted Grants and Scholarships, Official Institutions of Foreign Countries, 2011 - 2013

State Scholarship, Official Institutions of Foreign Countries, 2007 - 2011