

## Asst. Prof. Nazlı KADIOĞLU KARACA

### Personal Information

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### International Researcher IDs

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Yoksis Researcher ID: 49263



### Education Information

Doctorate, Ataturk University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2011 - 2017

Postgraduate, Inonu University, Fen Bilimleri Enstitüsü, Matematik, Turkey 2009 - 2011

Undergraduate, Inonu University, Fen Edebiyat Fakültesi, Matematik, Turkey 2004 - 2009

### Foreign Languages

English, B2 Upper Intermediate

### Dissertations

Doctorate, BANACH UZAYLARDA OPERATÖR DENKLEMLERİN ÇÖZÜMLERİ İÇİN YENİ YAKLAŞIM METOTLARI , Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2017

Postgraduate, LİNEER OLMAYAN KUADRATİK VOLTERRA İNTEGRAL DENKLEMLERİN MONOTON ÇÖZÜMLERİ, Atatürk Üniversitesi, Fen Bilimleri Enstitüsü, Matematik, 2011

### Research Areas

Mathematics, Functional Analysis, Natural Sciences

### Academic Titles / Tasks

Assistant Professor, Ataturk University, Fen Fakültesi, Matematik, 2018 - Continues

Research Assistant, Ataturk University, Fen Fakültesi, Matematik, 2011 - 2018

### Academic and Administrative Experience

Fakülte Yönetim Kurulu Üyesi, Ataturk University, Fen Fakültesi, Matematik, 2019 - 2022

Deputy Head of Department, Ataturk University, Fen Fakültesi, Matematik, 2020 - 2021

## Courses

İLERİ ANALİZ II, Postgraduate, 2023 - 2024  
Fourier Analizi, Undergraduate, 2022 - 2023  
Genel Matematik I, Undergraduate, 2023 - 2024  
Özel Fonksiyonlar, Undergraduate, 2023 - 2024  
Matematik I, Undergraduate, 2023 - 2024  
İleri Analiz I, Postgraduate, 2021 - 2022  
Matematik, Undergraduate, 2021 - 2022  
Differential Equations, Undergraduate, 2021 - 2022  
Matematik Tarihi ve Felsefesi, Undergraduate, 2020 - 2021  
Matematik, Undergraduate, 2021 - 2022  
Differential Equations, Undergraduate, 2021 - 2022  
Matematik II, Undergraduate, 2020 - 2021, 2019 - 2020  
Matematik I, Undergraduate, 2019 - 2020, 2018 - 2019  
Analiz I, Undergraduate, 2018 - 2019  
Matematik, Undergraduate, 2019 - 2020

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

- I. **Approximation of fixed points for a new class of generalized non-expansiv mappings in Banach spaces**  
Abdeljawad T., Karaca N., YILDIRIM İ., Mukheimer A.  
AIMS Mathematics, vol.9, no.5, pp.11958-11974, 2024 (SCI-Expanded)
- II. **On the convergence and data dependence results for multistep Picard-Mann iteration process in the class of contractive-like operators**  
YILDIRIM İ., ABBAS M., KARACA N.  
Journal of Nonlinear Science and Applications, vol.9, no.6, pp.3773-3786, 2016 (SCI-Expanded)
- III. **On the convergence of an iteration method for continuous mappings on an arbitrary interval**  
KADIOĞLU N., YILDIRIM İ.  
FIXED POINT THEORY AND APPLICATIONS, 2013 (SCI-Expanded)

## Articles Published in Other Journals

- I. **On approximating fixed points of a new class of generalized nonexpansive mappings in uniformly convex hyperbolic space**  
kadioglu n.  
Manas Journal of Engineering, vol.11, no.2, pp.223-228, 2023 (Peer-Reviewed Journal)
- II. **Convergence of the S-iteration process for the multi-valued generalized  $(\alpha - \beta)$ -nonexpansive mappings in Banach spaces**  
Kadioğlu Karaca N.  
International Journal of Nonlinear Analysis and Applications, vol.14, no.1, pp.2007-2018, 2023 (Peer-Reviewed Journal)
- III. **Fixed Point Theorem for Reich Contraction Mapping in Convex b-Metric Spaces**  
KARACA N., YILDIRIM İ.  
The Aligarh Bulletin of Mathematics (TABMATHS), 2021 (Peer-Reviewed Journal)
- IV. **Convergence of a Newton-like S-iteration process in R**  
KARACA N., ABBAS M., YILDIRIM İ.  
Creative Mathematics and Informatics, 2017 (Peer-Reviewed Journal)
- V. **A CONVERGENCE ANALYSIS OF THREE-STEP NEWTON-LIKE METHOD UNDER WEAK CONDITIONS IN BANACH SPACES**

KARACA N., YILDIRIM İ.

Bulletin of the Transilvania University of Brasov, 2017 (Peer-Reviewed Journal)

**VI. APPROXIMATING FIXED POINTS OF NONEXPANSIVE MAPPINGS BY A FASTER ITERATION PROCESS**

KARACA N., YILDIRIM İ.

Journal of Advanced Mathematical Studies, 2015 (Peer-Reviewed Journal)

### **Refereed Congress / Symposium Publications in Proceedings**

- I. **Fixed Point Theorems for a New Class Of Generalized Nonexpansive Mappings in Banach Spaces**  
Kadioğlu Karaca N., Yıldırım İ.  
The Seventh International Conference on Computational Mathematics and Engineering Sciences (CMES-2023), Elazığ, Turkey, 20 - 21 May 2023, pp.145
- II. **SOME CONVERGENCE RESULTS FOR A NEW GENERALIZED NONEXPANSIVE MAPPINGS IN UNIFORMLY CONVEX HYPERBOLIC SPACE**  
Karaca N.  
The Sixth International Conference on Computational Mathematics and Engineering Sciences (CMES-2022), Ordu, Turkey, 20 - 22 May 2022, pp.129
- III. **Generalized alpha-beta Nonexpansive Multivalued Mappings and its Properties**  
Yıldırım İ., Karaca N.  
1st INTERNATIONAL CONGRESS ON NATURAL SCIENCES (ICNAS-2021), 10 - 12 September 2021
- IV. **On the Local and Semi-Local Convergence of a New Newton-Like Method in Banach Spaces**  
KARACA N., YILDIRIM İ.  
4th International Conference on Pure and Applied Sciences: Renewable Energy, İstanbul, Turkey, 23 - 25 November 2017
- V. **Polynomiography Via Different Iterative Methods**  
KARACA N., YILDIRIM İ.  
4th International Conference on Pure and Applied Sciences: Renewable Energy, İstanbul, Turkey, 23 - 25 November 2017
- VI. **A FIXED POINT PROOF OF THE CONVERGENCE OF A NEWTON LIKE METHOD OBTAINED BY THE NORMAL S ITERATION PROCESS**  
KARACA N., YILDIRIM İ.  
International Conference on Analysis and Its Applications (ICAA-2016), 12 - 15 July 2016
- VII. **Existence of Coupled Fixed Point for Kannan and Chatterjea-Type Contractions**  
KARACA N., YILDIRIM İ.  
28. Ulusal Matematik Sempozyumu, Turkey, 7 - 09 September 2015
- VIII. **Approximating Fixed Points of Nonexpansive Mappings by a Faster Iteration Process**  
KADIOĞLU N., YILDIRIM İ.  
Algerian-Turkish International days on Mathematics, 12 - 14 September 2013
- IX. **On the Convergence of an Iteration Method for Continuous Mappings on an Arbitrary Interval**  
KADIOĞLU N., YILDIRIM İ.  
International Congress in Honour of Professor H. M. Srivastava, 23 - 26 August 2012

### **Supported Projects**

YILDIRIM İ., ÖZDEMİR M., KARACA N., Project Supported by Higher Education Institutions, BANACH UZAYLARINDA LİNEER OLMAYAN DENKLEMLERİN ÇÖZÜMÜ İÇİN GENELLEŞTİRİLMİŞ NEWTON METOTLARI VE BU METOTLAR YOLUYLA BAZI POLİNOMGRAFİLER, 2016 - 2018

## **Metrics**

Publication: 18

Citation (WoS): 5

Citation (Scopus): 8

H-Index (WoS): 2

H-Index (Scopus): 2