

**Assoc. Prof. NAZİFE ERKURŞUN  
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**Personal Information**

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**International Researcher IDs**

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Publons / Web Of Science ResearcherID: F-9145-2019

ScopusID: 57197854348

Yoksis Researcher ID: 140772

**Education Information**

Doctorate, Middle East Technical University, Fen Fakültesi, Matematik, Turkey 2006 - 2010

Postgraduate, Middle East Technical University, Fen Fakültesi, Matematik, Turkey 2002 - 2006

Undergraduate, Dokuz Eylül University, Buca Eğitim Fakültesi, Matematik Öğretmenliği, Turkey 1997 - 2001

**Foreign Languages**

German, B2 Upper Intermediate

English, C1 Advanced

**Dissertations**

Doctorate, Convergence of Lotz-Rabiger Nets on Banach Spaces, Orta Doğu Teknik Üniversitesi, Risk Analizi A.B.D., Matematik (Dr), 2010

Postgraduate, Basis in nuclear Fréchet spaces, Orta Doğu Teknik Üniversitesi, Risk Analizi A.B.D., Matematik (YI) (Tezli), 2006

**Research Areas**

Mathematics, Dynamic Systems and Ergodic Theory, Functional Analysis, Operators, Natural Sciences

**Academic Titles / Tasks**

Associate Professor, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2023 - Continues  
Assistant Professor, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2018 - 2023  
Assistant Professor, Hacettepe University, Fen Fakültesi, Matematik Bölümü, 2014 - 2018  
Research Assistant, Selcuk University, Faculty Of Science, Department Of Mathematics, 2010 - 2014  
Research Assistant, Middle East Technical University, Faculty Of Arts And Sciences, Department Of Mathematics, 2002 - 2010

## Academic and Administrative Experience

Hacettepe Üniversitesi, Fen Fakültesi, Matematik Bölümü, 2014 - Continues

## Courses

Uygulamalı Fonksiyonel Analiz, Postgraduate, 2020 - 2021  
Spektral Teori, Doctorate, 2020 - 2021  
Kompleks Fonksiyonlar Teorisi, Undergraduate, 2020 - 2021  
Fonksiyonel Analiz, Postgraduate, 2020 - 2021  
Ergodik Teori, Postgraduate, 2017 - 2018  
BİLGİSAYAR DESTEK.MATE.PRO.I, Undergraduate, 2017 - 2018, 2016 - 2017  
Fonksiyonel Analiz, Undergraduate, 2017 - 2018, 2016 - 2017  
Gerçel Analiz, Postgraduate, 2017 - 2018  
Kompleks Analiz, Undergraduate, 2017 - 2018  
ÇALIŞMA METODLARI I, Undergraduate, 2017 - 2018, 2016 - 2017  
Analiz III, Undergraduate, 2017 - 2018  
Analiz III, Matematik Bölümü, Undergraduate, 2016 - 2017  
Analiz III, İlköğretim Matematik Öğretmenliği, Undergraduate, 2016 - 2017  
Operatör Yarıgrupları ve Ergodik Teoriye Giriş, Postgraduate, 2016 - 2017  
Analiz I, Matematik Bölümü, Undergraduate, 2016 - 2017

## Advising Theses

Erkurşun Özcan N., Topolojik Vektör Latisleri Üzerinde Tanımlı Operatörlerin Oluşturduğu Ailelerin Özelliklerinin İncelenmesi, Postgraduate, A.SENA(Student), 2024  
Erkurşun Özcan N., Riesz Uzayları Üzerinde Tanımlı Bazı Özel Operatörler Ve Operatör Yarıgruplarının İncelenmesi, Postgraduate, Ö.BAL(Student), 2024  
Erkurşun Özcan N., RIESZ UZAYLARINDA NETLERİN YAKINSAKLIKLARI ÜZERİNE, Postgraduate, E.HAN(Student), 2023  
Erkurşun Özcan N., THEORY OF ORTHOGONALLY ADDITIVE OPERATORS, Postgraduate, S.BOLAT(Student), 2023  
Erkurşun Özcan N., Order compact and unbounded order compact operators on Riesz spaces, Postgraduate, Ş.Ece(Student), 2020  
Erkurşun Özcan N., Some results on operator theory based on unbounded convergence , Doctorate, N.ANIL(Student), 2020  
ERKURŞUN ÖZCAN N., ERKURŞUN ÖZCAN N., Sıralı Banach uzayları üzerinde tanımlı homojen Markov zincirlerinin Cesaro ortalamalarının pertürbasyon sınırları, Postgraduate, F.ÖZBAY(Student), 2017

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

- On Fragments on Lattice Normed Vector Lattices**  
BOLAT S., ERKURŞUN ÖZCAN N., Gezer N. A.

Results in Mathematics, vol.78, no.6, 2023 (SCI-Expanded)

- II. **An Extension of the Zero-Two Law on  $L_p$ -Spaces**  
ERKURŞUN ÖZCAN N., Mukhamedov F.  
Israel Journal of Mathematics, vol.254, no.1, pp.461-477, 2023 (SCI-Expanded)
- III. **On orthogonally additive operators in  $C$ -complete vector lattices**  
ERKURŞUN ÖZCAN N., Pliev M.  
BANACH JOURNAL OF MATHEMATICAL ANALYSIS, vol.16, no.1, 2022 (SCI-Expanded)
- IV. **SPECTRAL CONDITIONS FOR UNIFORM  $P$ -ERGODICITIES OF MARKOV OPERATORS ON ABSTRACT STATES SPACES**  
ERKURŞUN ÖZCAN N., Mukhamedov F.  
GLASGOW MATHEMATICAL JOURNAL, vol.63, no.3, pp.682-696, 2021 (SCI-Expanded)
- V. **Order compact and unbounded order compact operators**  
ERKURŞUN ÖZCAN N., GEZER N. A., Ozdemir S. E., Urganci I. M.  
TURKISH JOURNAL OF MATHEMATICS, vol.45, no.2, pp.634-646, 2021 (SCI-Expanded)
- VI. **Stability Estimates of Markov Semigroups on Abstract States Spaces**  
ERKURŞUN ÖZCAN N., Mukhamedov F.  
MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.17, no.2, 2020 (SCI-Expanded)
- VII. **Unbounded asymptotic equivalences of operator nets with applications**  
ERKURŞUN ÖZCAN N., Gezer N. A.  
POSITIVITY, vol.23, no.4, pp.829-851, 2019 (SCI-Expanded)
- VIII. **Unbounded absolutely weak Dunford-Pettis operators**  
ERKURŞUN ÖZCAN N., Gezer N. A., Zabeti O.  
TURKISH JOURNAL OF MATHEMATICS, vol.43, no.6, pp.2731-2740, 2019 (SCI-Expanded)
- IX. **ON ERGODIC PROPERTIES OF OPERATOR NETS ON THE PREDUAL OF VON NEUMANN ALGEBRAS**  
Ozcan N.  
STUDIA SCIENTIARUM MATHEMATICARUM HUNGARICA, vol.55, no.4, pp.479-486, 2018 (SCI-Expanded)
- X. **Komls properties in Banach lattices**  
Emelyanov E. Y., Erkursun-Ozcan N., Gorokhova S. G.  
ACTA MATHEMATICA HUNGARICA, vol.155, no.2, pp.324-331, 2018 (SCI-Expanded)
- XI. **Asymptotic behavior of operator sequences on  $KB$ -spaces**  
ERKURŞUN ÖZCAN N.  
POSITIVITY, vol.22, no.3, pp.803-814, 2018 (SCI-Expanded)
- XII. **Compact-like operators in lattice-nonmed. spaces**  
Aydin A., Emelyanov E. Y., Ozcan N., Marabeh M. A. A.  
INDAGATIONES MATHEMATICAE-NEW SERIES, vol.29, no.2, pp.633-656, 2018 (SCI-Expanded)
- XIII. **Uniform ergodicities and perturbation bounds of Markov chains on base norm spaces**  
ERKURŞUN ÖZCAN N., Mukhamedov F.  
QUAESTIONES MATHEMATICAE, vol.41, no.6, pp.863-876, 2018 (SCI-Expanded)
- XIV. **On quasi-compact Markov nets**  
BARTOSZEK W., Erkursun N.  
ERGODIC THEORY AND DYNAMICAL SYSTEMS, vol.31, pp.1081-1094, 2011 (SCI-Expanded)
- XV. **Lotz-Rabiger's nets of Markov operators in  $L_1$ -spaces**  
Emel'yanov E., Erkursun N.  
JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.371, no.2, pp.777-783, 2010 (SCI-Expanded)
- XVI. **An extension of Sine's counterexample**  
Emel'yanov E. Y., Erkursun N.  
POSITIVITY, vol.13, no.1, pp.125-127, 2009 (SCI-Expanded)

## Articles Published in Other Journals

- I. **UNIFORM ERGODICITIES OF MARKOV SEMIGROUPS ON ABSTRACT STATES SPACES**  
ERKURŞUN ÖZCAN N., Mukhamedov F.  
Journal of Mathematical Sciences (United States), vol.266, no.3, pp.448-460, 2022 (Scopus)
- II. **SPACES OF  $u$  tau-DUNFORD-PETTIS AND  $u$  tau-COMPACT OPERATORS ON LOCALLY SOLID VECTOR LATTICES**  
ERKURŞUN ÖZCAN N., Gezer N. A., Zabeti O.  
MATEMATICKI VESNIK, vol.71, no.4, pp.351-358, 2019 (ESCI)
- III. **ON THE NUMERICAL RANGE WITH RESPECT TO A FAMILY OF PROJECTIONS**  
Dada W., Kerner J., ERKURŞUN ÖZCAN N.  
METHODS OF FUNCTIONAL ANALYSIS AND TOPOLOGY, vol.24, no.4, pp.297-304, 2018 (ESCI)
- IV. **STABILITY AND LOWER-BOUND FUNCTIONS OF C-0-MARKOV SEMIGROUPS ON KB-SPACES**  
Ozcan N.  
COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.67, no.1, pp.260-265, 2018 (ESCI)
- V. **Asymptotically absorbing nets of positive operators**  
Emel'yanov E. Y., Erkurşun N.  
Siberian Advances in Mathematics, vol.22, no.4, pp.243-260, 2012 (Scopus)

### Refereed Congress / Symposium Publications in Proceedings

- I. **STABILITY AND PERTURBATIONS OF  $C_0$ -MARKOV SEMIGROUPS ON ABSTRACT STATE SPACES**  
ERKURŞUN ÖZCAN N., Mukhamedov F.  
38th international workshop of Infinite Dimensional Analysis and Quantum Probability and Related Topics (IDAQ), Noda, Japan, 2 - 06 October 2017, pp.143-151
- II. **Uniform ergodicities and perturbation bounds of Markov chains on ordered Banach spaces**  
Ozcan N., Mukhamedov F.  
37th International Conference on Quantum Probability and Related Topics (QP), Kuantan, Malaysia, 22 - 26 August 2016, vol.819
- III. **Quasi-compactness and Uniform Convergence of Markov Operator Nets on KB-spaces**  
Ozcan N.  
7th Positivity Conference, Leiden, Netherlands, 22 - 26 July 2013, pp.171-178

### Supported Projects

ERKURŞUN ÖZCAN N., Bal Ö., Project Supported by Higher Education Institutions, Banach latisleri üzerinde tanımlı demi-Levi ve demi-kuasi Levi  $C_0$ -yarıgruplarının özelliklerinin incelenmesi üzerine, 2024 - Continues

ERKURŞUN ÖZCAN N., Bolat S., GEZER N. A., EMEL'YANOV E., Project Supported by Higher Education Institutions, Dikey Toplamsal Operatörlerin Dinamik Teorisi, 2021 - 2024

ERKURŞUN ÖZCAN N., TUBITAK Project, Sınırsız Kompakt Ve Sınırsız Montel Operatörleri İncelenmesi, 2018 - 2019

ERKURŞUN ÖZCAN N., Project Supported by Higher Education Institutions, Ergodik teoremlerinin ve martingale yaklaşım teoremlerinin birleştirilmesi-Kakutani Problem, 2015 - 2017

ERKURŞUN ÖZCAN N., Project Supported by Higher Education Institutions, KB-uzayları üzerinde tanımlı Markov operatörlerinin atraktörleri, 2015 - 2016

ERKURŞUN ÖZCAN N., Project Supported by Higher Education Institutions, Bazı olan sıralı Banach uzayları üzerinde tanımlı Markov LR-netlerin ergodik özellikleri, 2015 - 2015

### Student Project

## Metrics

Publication: 24

Citation (WoS): 71

Citation (Scopus): 104

H-Index (WoS): 5

H-Index (Scopus): 7

## Awards

Erkurşun Özcan N., Ulusal Genç Bilim Kadımlarına Destek, Unesco - Loreal, September 2020

Erkurşun Özcan N., GEBİP, Türkiye Bilimler Akademisi, December 2019

Erkurşun Özcan N., Araştırma Teşvik Ödülü, Odtu Prof. Dr. Mustafa N.Parlar Araştırma Ve Eğitim Vakfı, November 2019

Erkurşun Özcan N., Yılm Doktora Tezi Ödülü, Orta Doğu Teknik Üniversitesi, June 2011

## Non Academic Experience

Islamic University of Malaysia

AG Funktionalanalysis, University of Tübingen, Germany

University of Ulm, Germany

Gdansk University of Technology, Poland