

## Assoc. Prof. Yusuf ZEREN

### Personal Information

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**Post Address:** Yıldız Teknik Üniversitesi, Davutpaşa Kampüsü, Fen Edebiyat Fakültesi, Matematik Bölümü, E-2017, Esenler, İstanbul

### Education Information

Doctorate, Ankara University, Faculty Of Science, Department Of Mathematics, Turkey 1997 - 2002

Post Graduate, Harran University, Faculty Of Science And Letters, Turkey 1994 - 1996

Under Graduate, Firat University, Matematik, Turkey 1989 - 1993

### Dissertations

Doctorate, Türevlenebilir fonksiyonlara lineer pozitif integral operatörler aileleriyle yaklaşımının asimptotik değeri, Ankara University, Faculty Of Science, Department Of Mathematics, 2002

Post Graduate, Bazı dizi uzayları ve matris dönüşümleri, Harran University, Faculty Of Science And Letters, Department Of Mathematics, 1996

### Research Areas

Mathematics, Functional Analysis, General Mathematics, Abstract Harmonic Analysis, Natural Sciences

### Academic Titles / Tasks

Associate Professor, Yıldız Teknik Üniversitesi, Faculty of Arts & Science, Matematik, 2015 - Continues

Assistant Professor, Yıldız Technical University, Faculty of Arts & Science, Department of Mathematics, 2010 - 2015

Assistant Professor, Harran University, Faculty Of Science And Letters, Department Of Mathematics, 2005 - 2010

Research Assistant, Harran University, Faculty Of Science And Letters, Department Of Mathematics, 2002 - 2005

Research Assistant, Ankara University, Faculty Of Science, Department Of Mathematics, 1997 - 2002

Research Assistant, Harran University, Faculty Of Science And Letters, Department Of Mathematics, 1995 - 1997

### Courses

Matematik 1, Under Graduate, 2019 - 2020

Matematik 1, Under Graduate, 2019 - 2020

Uzmanlık Alan Dersi(Doktora), Doctorate, 2019 - 2020

Yüksek Lisans Tezi, Post Graduate, 2019 - 2020

Matematik 1, Under Graduate, 2019 - 2020

Uzmanlık Alan Dersi(Yüksek Lisans), Post Graduate, 2019 - 2020

Matematik 1, Under Graduate, 2019 - 2020

Doktora Tezi, Doctorate, 2019 - 2020

### Advising Theses

Zeren Y., Korovkin Tipli İntegral Operatörlerin İstatistiksel Yakınsaklığı, Doctorate, C.Karaçam(Student), Continues

ZEREN Y., İkinci dereceden süreksiz bir diferansiyel operatörün spektral özellikleri, Doctorate, F.ŞİRİN(Student), Continues

Zeren Y., Teorem İspatlayıcı Kullanarak Matematiksel Sonuçlar Elde Etme, Post Graduate, K.AKSOY(Student), Continues

Zeren Y., Homojen Olmayan  $P(x)$ -Laplace Denklemi İçin Değişken Üslü Hardy Eşitsizliği, Doctorate, K.ŞİMŞİR(Student), Continues

Zeren Y., Yeniden Düzenlenmiş-Değişmez Uzaylarda Katı Singüler Gömmeler, Post Graduate, E.DENİZ(Student), 2019

Zeren Y., Banach Fonksiyon Uzayları Üzerinde Fourier Serisi, Post Graduate, S.YAVUZ(Student), 2019

Zeren Y., Hardy-Littlewood maksimal operatörünün değişken üslü lebesgue uzayında sınırlılığı, Post Graduate, M.DİKMEN(Student), 2017

## Jury Memberships

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Ticaret Üniversitesi, December, 2019

PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, İstanbul Ticaret Üniversitesi, June, 2019

## Articles Published in Journals That Entered SCI, SSCI and AHCI Indexes

- **ON BOUNDEDNESS OF FRACTIONAL MAXIMAL OPERATOR IN WEIGHTED  $L_p(\cdot)$  SPACES**  
MAMEDOV F. I. , ZEREN Y.  
MATHEMATICAL INEQUALITIES & APPLICATIONS, vol.19, pp.1-14, 2016 (Journal Indexed in SCI)
- **A Necessary and Sufficient Condition for Hardy's Operator in the Variable Lebesgue Space**  
MAMEDOV F., ZEREN Y.  
ABSTRACT AND APPLIED ANALYSIS, 2014 (Journal Indexed in SCI)
- **On Equivalent Conditions for the General Weighted Hardy Type Inequality in Space  $L_p(\cdot)$**   
Mamedov F. I. , ZEREN Y.  
ZEITSCHRIFT FUR ANALYSIS UND IHRE ANWENDUNGEN, vol.31, pp.55-74, 2012 (Journal Indexed in SCI)
- **NECESSARY AND SUFFICIENT CONDITIONS FOR THE BOUNDEDNESS OF THE RIESZ POTENTIAL IN MODIFIED MORREY SPACES**  
Guliyev V. S. , Hasanov J. J. , ZEREN Y.  
JOURNAL OF MATHEMATICAL INEQUALITIES, vol.5, pp.491-506, 2011 (Journal Indexed in SCI)
- **On a two-weighted estimation of maximal operator in the Lebesgue space with variable exponent**  
Mamedov F. I. , ZEREN Y.  
ANNALI DI MATEMATICA PURA ED APPLICATA, vol.190, pp.263-275, 2011 (Journal Indexed in SCI)
- **On the limiting case for boundedness of the B-Riesz potential in B-Morrey spaces**  
Guliyev V. S. , Hasanov J. J. , Zeren Y.  
ANALYSIS MATHEMATICA, vol.35, pp.87-97, 2009 (Journal Indexed in SCI)
- **Pointwise and integral estimates for the B-Riesz potential in terms of B-maximal and B-fractional maximal functions**  
Guliev V. S. , GARAKHANOVA N., ZEREN Y.  
SIBERIAN MATHEMATICAL JOURNAL, vol.49, pp.1008-1022, 2008 (Journal Indexed in SCI)
- **Some properties of the B-Riesz potential in B-Morrey spaces.**  
ZEREN Y.  
Integral Transforms and Special Functions, pp.607-612, 2008 (Journal Indexed in SCI Expanded)
- **On the Riesz potential in Morrey spaces, associated with the Laplace-Bessel differential operator**  
Zeren Y.  
INTEGRAL TRANSFORMS AND SPECIAL FUNCTIONS, vol.19, pp.607-612, 2008 (Journal Indexed in SCI)

## Articles Published in Other Journals

- **SOME PROPERTIES FOR HIGHER ORDER COMMUTATORS OF HARDY-TYPE INTEGRAL OPERATOR ON HERZ–MORREY SPACES WITH VARIABLE EXPONENT**

AKIN L., ZEREN Y.

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BILIMLERI DERGISI, vol.10, pp.157-163, 2019 (Refereed Journals of Other Institutions)

- **Some questions of harmonic analysis in weighted Morrey type spaces**

ZEREN Y.

AFRIKA MATEMATIKA, vol.30, pp.129-150, 2019 (Journal Indexed in ESCI)

- **On Morrey-type classes of harmonic functions**

ZEREN Y., Abdullayeva R. H. , Çetin S.

RENDICONTI DEL CIRCOLO MATEMATICO DI PALERMO, vol.67, pp.501-516, 2018 (Journal Indexed in ESCI)

- **Approximation To Generalized Taylor Derivatives By Integral Operator Families**

AKIN L., ZEREN Y.

MSU J. OF SCI., vol.5, pp.421-423, 2017 (Refereed Journals of Other Institutions)

- **Compactification of Weighted Hardy Operator in Variable Exponent Lebesgues Spaces**

MAMEDOV F., ZEREN Y., AKIN L.

Asian Journal of Mathematics and Computer Research, vol.17, pp.38-47, 2017 (Refereed Journals of Other Institutions)

- **On some Hardy-Sobolev's type variable exponent inequality and its application**

Mamedov F. I. , Mammadli S. M. , ZEREN Y.

Transactions Issue Mathematics, Azerbaijan National Academy of Sciences, vol.37, pp.102-110, 2017 (Refereed Journals of Other Institutions)

- **Two weight inequalities for the maximal operator in lebesgue space with variable exponent.**

ZEREN Y.

Journal of Mathematical Sciences, vol.173, pp.701-716, 2011 (Refereed Journals of Other Institutions)

- **On limiting case of the Sobolev theorem for B-Riesz potential in B-Morrey spaces**

Zeren Y., Hasanov J. J.

Arab Journal of Mathematical Sciences, vol.13, pp.27-38, 2007 (Refereed Journals of Other Institutions)

- **Two-weight norm inequalities for some anisotropic sublinear operators**

ZEREN Y., guliyev v.

Turk J. Math, 2006 (Refereed Journals of Other Institutions)

## Refereed Congress / Symposium Publications in Proceedings

- **Using HOL4 for the Reliability Verification of Parity Checking Circuit**

Deniz E., Aksoy K., Tahar S., ZEREN Y.

2nd International Conference on Mathematical advances and Applications (ICOMAA2019), 3 - 05 Mayıs 2019

- **In-service Teachers' Understanding of Geometric Reflections: Motion and Mapping view**

ZEREN Y., ŞİRİN F.

2nd International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 3 - 05 Mayıs 2019, pp.74

- **A variable exponent boundedness of the Steklov operator**

ZEREN Y., ŞİRİN F.

2nd International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 3 - 05 Mayıs 2019, pp.94

- **On Spectral Properties of Second Order Discontinuous Differential Operator in  $\mathbb{R}^n$**

ZEREN Y., ŞİRİN F.

2nd International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 3 - 05 Mayıs 2019, pp.71

- **On Spektral Properties of Discontinuous Differential Operators With Second Order**

ZEREN Y., ŞİRİN F.

2nd International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 3 - 05 Mayıs 2019

- **On the Boundedness of Fractional Maximal Operator with Variable Kernel on Herz-Morrey spaces**

AKIN L., ZEREN Y., Düşünceli F.

International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 Mayıs 2018, pp.98

• **On Weighted Zorko Subspaces and Riesz type Theorems for Analytic Functions**

ZEREN Y., YAVUZ S.

International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 Mayıs 2018, pp.162

• **An Increase Theorem for Positive Solutions of The Parabolic Equation second order**

Deniz E., ZEREN Y., Guliyev A., YAVUZ S.

International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 Mayıs 2018, pp.43

• **On solvability of some nonlinear eigenvalue problem in variable exponent Lebesgue spaces**

MAMEDOV F. I. , ZEREN Y., Mammadli S. M.

International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 Mayıs 2018, pp.21

• **Basis Properties of Trigonometric Systems in Weighted Morrey Spaces**

BİLALOV B., ZEREN Y., Çetin Ş.

International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 Mayıs 2018, pp.19

• **On a solvability for some variable exponent eigenvalue problem**

ZEREN Y., AKIN L., ŞİMŞİR K., Kazar C.

International Conference on Mathematical Advances and Applications, İstanbul, Turkey, 11 Mayıs 2018, pp.163

• **Fejer's Theorem and It's Statistical Version in  $L_p(\mathbb{R})$**

ZEREN Y.

Modern Problems of Mathematics and Mechanics, Baku, Azerbaijan, 06 Aralık 2017, pp.231-233

• **On the fractional maximal operator on some critical weighted Herz spaces with variable exponent Lebesgue spaces**

AKIN L., ZEREN Y., DÜŞÜNCELİ F.

Modern Problems of Mathematics and Mechanics, Baku, Azerbaijan, 6 - 08 Aralık 2017, pp.21-22

• **On some compactness result in weighted variable exponent Lebesgue space**

ZEREN Y., AKIN L., ŞİMŞİR K.

Modern Problems of Mathematics and Mechanics, Baku, Azerbaijan, 6 - 08 Aralık 2017, pp.230

• **Fourier Series on Banach Function Space**

YAVUZ S., ZEREN Y.

International Conference on Operators in Morrey-Type Spaces and Applications, Kırşehir, Turkey, 10 Haziran - 13 Ekim 2017

• **Approximation To Generalized Riemann Derivatives By Integral Operator Families**

AKIN L., ZEREN Y., DÜŞÜNCELİ F.

Caucasian Mathematics Conference, CMC II, VAN, TURKEY, Van, Turkey, 22 - 24 Ağustos 2017, pp.26

• **Some Questions of Harmonic Analysis in Weighted Morrey Type Spaces**

ZEREN Y.

OMTSA -2017, 10 - 13 Temmuz 2017

• **The Boundedness of The Hardy-Littlewood Maximal Operator**

Dikmen M., ZEREN Y.

International Conference on Operators in Morrey-Type Spaces and Applications, Kırşehir, Turkey, 10 - 13 Haziran 2017

• **Uncountable Bessel System in Non-Seperable Hilbert Spaces**

SAÇLI Y., ZEREN Y.

International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 Mayıs 2017

•  **$\mu$ -statistical Convergence and  $\mu$ -stat Fundemantality**

KARAÇAM C., ZEREN Y., BİLALOV B.

International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 Mayıs 2017

• **A Variable Exponent Hardy's Inequality for Some Nonlinear Equation and Its Application**

ŞİMŞİR K., ZEREN Y., MAMEDOV F.

International Conference on Mathematics and Engineering, İstanbul, Turkey, 10 - 12 Mayıs 2017

• **Approximation To Generalized Derivatives By Integral Operator Families**

AKIN L., ZEREN Y.

ICMME 2017, Şanlıurfa, Turkey, 11 - 13 Mayıs 2017

- **BOUNDEDNESS OF THE CALDERON ZYGMUNDSINGULAR INTEGRAL OPERATOR AND ITS COMMUTATORS ON MODIFIED MORREY SPACES**  
Armutçu H., ZEREN Y., Guliyev V.  
INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATIONS, 12 - 15 Temmuz 2016
- **COMPACTNESS OF MAXIMAL OPERATOR IN WEIGHTED LEBESGUE SPACES WITH VARIABLE EXPONENT**  
AKIN L., ZEREN Y.  
INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATIONS, 12 - 15 Temmuz 2016
- **COMPACTNESS OF FRACTIONAL MAXIMAL OPERATOR IN WEIGHTED  $L_p \times 0$  L SPACE**  
ZEREN Y., AKIN L.  
INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATIONS, 12 - 15 Temmuz 2016
- **ON ONE KIND OF POSITIVE OPERATORS IN LEBESGUE SPACE OF HARMONIC FUNCTIONS**  
ZEREN Y., ŞİRİN F.  
2nd INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATION
- **ON SOME PROPERTIES OF POISSON AND CAUCHY TYPE INTEGRALS IN WEIGHTED MORREY TYPE SPACES**  
ZEREN Y., ÇETİN Ş.  
2nd INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATION
- **Compactness of Fractional Maximal Operator in Weighted  $L^p(x)(0,1)$  Spaces**  
ZEREN Y., AKIN L.  
2nd INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATION
- **BOUNDEDNESS OF THE CALDERON-ZYGMUND SINGULAR INTEGRAL OPERATOR AND ITS COMMUTATORS ON MODIFIED MORREY SPACES**  
ZEREN Y., ARMUTÇU H., S. GULIYEV V.  
2nd INTERNATIONAL CONFERENCE ON ANALYSIS AND ITS APPLICATION

## Supported Projects

Zeren Y., TÜBİTAK International Bilateral Joint Cooperation Program Project, Frame Properties of the System of Eigenfunctions of a Second Order Discontinuous Differential Operator, 2019 - 2021

Zeren Y., Akın L., Project Supported by Higher Education Institutions, İletişim Cihazlarının Yapılandırılmasında Matematiksel Modeller, 2017 - 2018

ZEREN Y., Project Supported by Higher Education Institutions, Maksimal, Potansiyel ve Singüler İntegral Operatörlerinin Modifiye edilmiş Morrey Uzaylarında Sınırlılığı, 2015 - 2016

ZEREN Y., Project Supported by Higher Education Institutions, Ağırlıklı Ve Değişken Üslü Lebesgue Uzayında Hardy Operatörünün Kompaktlığı, 2014 - 2015

## Activities in Scientific Journals

SIGMA JOURNAL OF ENGINEERING AND NATURAL SCIENCES-SIGMA MUHENDISLIK VE FEN BİLİMLERİ DERGİSİ, Special Issue Editor, 2018 - Continues

## Scientific Refereeing

Erzincan Üniversitesi Fen Bilimleri Enstitüsü Dergisi, National Scientific Refreed Journal, February 2018

## Tasks In Event Organizations

Zeren Y., 2nd International Conference on Mathematical Advances and Applications (ICOMAA2019), Scientific Congress, İstanbul, Turkey, Mayıs 2019

Zeren Y., International Conference on Mathematical Advances and Applications (ICOMAA2018), Scientific Congress, İstanbul, Turkey, Mayıs 2018

Zeren Y., Eğitimcilerin Eğitimi Çalıştayı, Workshop Organization, Batman, Turkey, Haziran 2008

## **Invited Congress and Symposium Activities**

2nd International Conference on Mathematical Advances and Applications (ICOMAA), Working Group, İstanbul, Turkey, 2019

4th International Conference on Analysis and its Applications (ICAA), Working Group, Kırşehir, Turkey, 2018

International Conference on Mathematical Advances and Applications (ICOMAA), Working Group, İstanbul, Turkey, 2018

Modern Problems of Mathematics and Mechanics, Working Group, Baku, Azerbaijan, 2017

2nd International Conference on Analysis and its Applications (ICAA), Working Group, Kırşehir, Turkey, 2016

Mathematical Analysis, Differential Equations and their Applications (MADEA7), Working Group, Baku, Azerbaijan, 2015

International Conference on Recent Advances in Pure and Applied Mathematics (ICRAPAM14), Working Group, Antalya, Turkey, 2014

International Conference on Applied Analysis and Mathematical Modeling (ICAAMM2013), Working Group, İstanbul, Turkey, 2013

International Conference on Applied Analysis and Algebra, Working Group, İstanbul, Turkey, 2012

International Conference on Analysis and its Applications, Working Group, Aligarh, India, 2011

International Conference on Applied Analysis and Algebra, Working Group, İstanbul, Turkey, 2011

III. Ankara Matematik Günleri Sempozyumu, Working Group, Ankara, Turkey, 2008

II. Türk Dünyası Matematik Sempozyumu, Working Group, Sakarya, Turkey, 2007

Eğitimcilerin Eğitimi Semineri, Working Group, Şanlıurfa, Turkey, 2005

International Mathematics Symposium, Working Group, Baku, Azerbaijan, 2005

## **Citations**

Total Citations (WOS):39

h-index (WOS):4

## **Scholarships**

NATO-D, NATO, 2004 - 2004

NATO-B1, NATO, 2003 - 2003

NATO-A2, NATO, 2002 - 2002