

Assoc. Prof. GİZEM SEYHAN ÖZTEPE

Office Phone: [+90 312 212 6720](tel:+903122126720) Extension: 1240

Fax Phone: [+90 312 223 5000](tel:+903122235000)

Email: gseyhan@ankara.edu.tr

Web: <https://avesis.ankara.edu.tr/gseyhan>

Address: Ankara Üniversitesi Fen Fakültesi, Matematik Bölümü Degol Cad.

06100 Tandoğan-Çankaya /Ankara

International Researcher IDs

ScholarID: V3o35SkAAAAJ

ORCID: 0000-0002-8170-7029

Publons / Web Of Science ResearcherID: B-9001-2018

ScopusID: 56003553200

Yoksis Researcher ID: 121360



Education Information

- I. Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2009 - 2013
- II. Postgraduate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2006 - 2009
- III. Postgraduate, Gazi University, Eğitim Bilimleri Enstitüsü, Eğitim Bilimleri Enstitüsü, Turkey 2005 - 2007
- IV. Undergraduate, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey 2001 - 2005

Foreign Languages

- I. English, B2 Upper Intermediate

Dissertations

- I. Doctorate, Parçalı sürekli argümentli impulsiv diferensiyel denklemler, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2013
- II. Postgraduate, Parçalı sürekli argümentli diferensiyel denklemler, Ankara University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2009

Research Areas

Differential Equations, Functional Equations

Academic Titles / Tasks

- I. Associate Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 2020 - Continues
- II. Assistant Professor, Ankara University, Fen Fakültesi, Matematik Bölümü, 2017 - 2020
- III. Research Assistant, Ankara University, Fen Fakültesi, Matematik Bölümü, 2008 - 2017

Courses

- I. Difference Equations, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021
- II. Differential Equations, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
- III. Difference Equations, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019
- IV. Differential Equations, Undergraduate, 2024 - 2025, 2023 - 2024, 2022 - 2023
- V. Systems of Difference Equations, Undergraduate, 2022 - 2023, 2021 - 2022
- VI. Diferansiyel Denklemler, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020
- VII. Systems of Difference Equations, Undergraduate, 2022 - 2023
- VIII. Difference Equations, Doctorate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2017 - 2018
- IX. Differential Equations, Undergraduate, 2021 - 2022, 2020 - 2021
- X. Mathematics, Undergraduate, 2021 - 2022
- XI. Mathematics I, Undergraduate, 2021 - 2022
- XII. Calculus II, Undergraduate, 2020 - 2021
- XIII. Mathematics I, Undergraduate, 2021 - 2022
- XIV. Mathematical Modelling, Undergraduate, 2019 - 2020
- XV. Differential Equations, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018
- XVI. Mathematics II, Undergraduate, 2018 - 2019
- XVII. Calculus II, Undergraduate, 2018 - 2019
- XVIII. Calculus I, Undergraduate, 2019 - 2020, 2018 - 2019, 2017 - 2018, 2016 - 2017
- XIX. Calculus I, Undergraduate, 2017 - 2018
- XX. Calculus -II, Undergraduate, 2017 - 2018
- XXI. Mathematics I, Undergraduate, 2018 - 2019

Advising Theses

- I. Seyhan Öztepe G., Sürekli dinamik sistemlerin kararlılık ve çatallanma analizi, Postgraduate, N.BURKANKULU(Student), 2022

Jury Memberships

- I. Post Graduate, Post Graduate, Ankara Üniversitesi, January, 2024
- II. Doctoral Examination, Doctoral Examination, Ankara Üniversitesi, July, 2023
- III. Doctorate, Doctorate, Ankara Üniversitesi, July, 2023
- IV. PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Ankara Üniversitesi, January, 2021

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **An investigation on the Lasota-Ważewska model with a piecewise constant argument**
SEYHAN ÖZTEPE G.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.50, no.5, pp.1500-1508, 2021 (SCI-Expanded)
- II. **Oscillation of first-order differential equations with several non-monotone retarded arguments**
BEREKETOĞLU H., KARAKOÇ F., SEYHAN ÖZTEPE G., Stavroulakis I. P.
GEORGIAN MATHEMATICAL JOURNAL, vol.27, no.3, pp.341-350, 2020 (SCI-Expanded)
- III. **BEHAVIOR OF SOLUTIONS OF A NONLINEAR IMPULSIVE SYSTEM WITH PIECEWISE CONSTANT MIXED**

ARGUMENTS

Buyukkahraman M. L., SEYHAN ÖZTEPE G., BEREKETOĞLU H.

MISKOLC MATHEMATICAL NOTES, vol.21, no.2, pp.733-746, 2020 (SCI-Expanded)

IV. **Existence and qualitative properties of solutions of a second order mixed type impulsive differential equation with piecewise constant arguments**

Oztepe G.

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.46, no.6, pp.1077-1091, 2017 (SCI-Expanded)

V. **QUALITATIVE PROPERTIES OF A THIRD-ORDER DIFFERENTIAL EQUATION WITH A PIECEWISE CONSTANT ARGUMENT**

Bereketoğlu H., Lafci M., Seyhan Öztepe G.

ELECTRONIC JOURNAL OF DIFFERENTIAL EQUATIONS, vol.2017, 2017 (SCI-Expanded)

VI. **On the Oscillation of a Third Order Nonlinear Differential Equation with Piecewise Constant Arguments**

BEREKETOĞLU H., Lafci M., SEYHAN ÖZTEPE G.

MEDITERRANEAN JOURNAL OF MATHEMATICS, vol.14, no.3, 2017 (SCI-Expanded)

VII. **ASYMPTOTIC CONVERGENCE OF SOLUTIONS OF A SCALAR q -DIFFERENCE EQUATION WITH DOUBLE DELAYS**

Bereketoglu H., KAVGACI M. E., Oztepe G.

ACTA MATHEMATICA HUNGARICA, vol.148, no.2, pp.279-293, 2016 (SCI-Expanded)

VIII. **Asymptotic constancy for impulsive differential equations with piecewise constant argument**

Bereketoğlu H., Seyhan Öztepe G.

BULLETIN MATHEMATIQUE DE LA SOCIETE DES SCIENCES MATHEMATIQUES DE ROUMANIE, vol.57, no.2, pp.181-192, 2014 (SCI-Expanded)

IX. **CONVERGENCE OF THE SOLUTION OF AN IMPULSIVE DIFFERENTIAL EQUATION WITH PIECEWISE CONSTANT ARGUMENTS**

BEREKETOĞLU H., SEYHAN ÖZTEPE G.

MISKOLC MATHEMATICAL NOTES, vol.14, no.3, pp.801-815, 2013 (SCI-Expanded)

X. **On a second order differential equation with piecewise constant mixed arguments**

Bereketoglu H., Seyhan G., Karakoc F.

CARPATHIAN JOURNAL OF MATHEMATICS, vol.27, no.1, pp.1-12, 2011 (SCI-Expanded)

XI. **Oscillatory and Periodic Solutions of Impulsive Differential Equations with Piecewise Constant Argument**

KARAKOÇ F., BEREKETOĞLU H., SEYHAN ÖZTEPE G.

ACTA APPLICANDAE MATHEMATICAE, vol.110, no.1, pp.499-510, 2010 (SCI-Expanded)

XII. **Advanced Impulsive Differential Equations with Piecewise Constant Arguments**

Bereketoglu H., Seyhan G., Ogun A.

MATHEMATICAL MODELLING AND ANALYSIS, vol.15, no.2, pp.175-187, 2010 (SCI-Expanded)

Articles Published in Other Journals

I. **Bifurcations and Dynamics in Modified Two Population Neuronal Network Models**

Choudhury S. R., Oztepe G.

Discontinuity, Nonlinearity, and Complexity, vol.10, no.2, pp.237-257, 2021 (Scopus)

II. **Oscillation and Periodicity of a Second Order Impulsive Delay Differential Equation with a Piecewise Constant Argument**

S. Oztepe G., Karakoç F., Bereketoğlu H.

Communications in Mathematics, vol.25, no.2, pp.89-98, 2017 (Scopus)

III. **CONVERGENCE OF SOLUTIONS OF AN IMPULSIVE DIFFERENTIAL SYSTEM WITH A PIECEWISE CONSTANT ARGUMENT**

Oztepe G.

COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, vol.66, no.2, pp.115-129, 2017 (ESCI)

IV. Multiple scales and energy analysis of coupled Rayleigh Van der Pol oscillators with time delayed displacement and velocity feedback Hopf bifurcations and amplitude death

Seyhan Öztepe G., Choudhury S. R., Bhatt A.

Far East Journal of Dynamical Systems, vol.26, no.1, pp.31-59, 2015 (Peer-Reviewed Journal)

V. Convergence in an impulsive advanced differential equations with piecewise constant argument

Seyhan Öztepe G., Bereketoğlu H.

BULLETIN OF MATHEMATICAL ANALYSIS AND APPLICATIONS, vol.4, no.3, pp.57-70, 2012 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

I. Complex Behaviors of a Predator-Prey Model Discretized by Piecewise Constant Arguments

Seyhan Öztepe G.

29th International Conference on Difference Equations and Applications 24-28 Jun 2024 Paris (France), Paris, France, 24 - 28 June 2024, pp.95

II. Some Bifurcations of a Fractional Order Discrete Prey-Predator Model

Seyhan Öztepe G., Lafcı M.

2nd International E-Conference on Mathematical and Statistical Science: A Selcuk Meeting, Konya, Turkey, 5 - 07 June 2023, pp.195

III. Detection of The Bifurcation of Chen's Chaotic Attractor

Seyhan Öztepe G.

8th International Conference on Intuitionistic Fuzzy Sets and Contemporary Mathematics (IFSCOM-2022), Mersin, Turkey, 16 - 19 June 2022, pp.58

IV. An Investigation on the Lasota-Wazewska model with a Piecewise Constant Argument

Seyhan Öztepe G.

8th International Conference on Intuitionistic Fuzzy Sets and Contemporary Mathematics (IFSCOM-2022), Mersin, Turkey, 16 - 19 June 2022, pp.57

V. Some Properties of a Differential Equation with Piecewise Constant Arguments

SEYHAN ÖZTEPE G., LAFCI M., BEREKETOĞLU H.

The 25th International Conference on Difference Equations and Applications (ICDEA 2019), 24 - 28 June 2019

VI. Oscillation of a Third Order Nonlinear Differential Equation with Piecewise Constant Arguments

LAFCI M., BEREKETOĞLU H., SEYHAN ÖZTEPE G.

International Conference on Mathematics and Mathematics Education (ICMME 2017), 11 - 13 May 2017

VII. Oscillation of a second order impulsive delay differential equation with a piecewise constant argument

SEYHAN ÖZTEPE G., KARAKOÇ F., BEREKETOĞLU H.

International Conference on Applied Mathematics and Analysis, 11 - 16 July 2016

VIII. Some Results on a Third Order Differential Equation with a Piecewise Constant Argument

LAFCI M., BEREKETOĞLU H., SEYHAN ÖZTEPE G.

The 11th Aims Conference in Dynamical Systems Differential Equations and Applications, 1 - 05 July 2016

IX. İleri tipten parçalı sürekli argümentli impulsive denklemlerin çözümlerinin yakınsaklığı

SEYHAN ÖZTEPE G.

11. Ankara Matematik Günleri, Turkey, 26 - 27 May 2016

X. Oscillation of Mixed Type Third Order Nonlinear Differential Equation with Piecewise Constant Arguments

LAFCI M., SEYHAN ÖZTEPE G.

International Conference on Pure and Applied Mathematics (ICPAM 2015), 25 - 28 August 2015

- XI. **Parçalı Sürekli Argümentli Impulsive Diferensiyel Denklemler**
SEYHAN ÖZTEPE G.
Ankara Üniversitesi Matematik Bölüm Semineri, Turkey, 23 October 2013
- XII. **Parçalı Sürekli Argümentli Diferensiyel Denklemlerin Çözümlerinin Yakınsaklığı Üzerine**
SEYHAN ÖZTEPE G., BERKETOĞLU H.
8. Ankara Matematik Günleri, Turkey, 13 - 14 June 2013
- XIII. **Advanced Impulsive Differential Equations with Piecewise Constant Arguments**
SEYHAN ÖZTEPE G.
The International Conference on the Theory, Methods and Applications of Nonlinear Equations, 17 - 21 December 2012
- XIV. **Oscillatory and Periodic Solutions of Impulsive Differential Equations with Piecewise Constant Argument**
Karakoç F., Bereketoğlu H., Seyhan Öztepe G.
The 11th International Workshop on Dynamical Systems and Applications, Ankara, Turkey, 26 - 28 June 2012, pp.16
- XV. **Oscillation of Impulsive Differential Equations with Piecewise Constant Argument**
KARAKOÇ F., BERKETOĞLU H., SEYHAN ÖZTEPE G.
Joint Mathematics Meetings, 6 - 09 January 2011
- XVI. **Oscillation of Impulsive Differential Equations with Piecewise Constant Argument**
Karakoç F., Bereketoğlu H., Seyhan Öztepe G.
AMS-MAA 2011 Joint Mathematics Meeting, Louisiana, United States Of America, 6 - 09 January 2011, pp.167
- XVII. **On a Second Order Differential Equation with Piecewise Constant Mixed Arguments**
Seyhan Öztepe G., Bereketoğlu H., Karakoç F.
The 6th International Conference: Dynamical Systems and Applications, Antalya, Turkey, 10 - 14 July 2010
- XVIII. **Some Results on an Advanced Impulsive Differential Equation with Piecewise Constant Argument**
ÜNAL A., SEYHAN ÖZTEPE G., BERKETOĞLU H.
International Conference of Mathematical Sciences, 4 - 10 August 2009
- XIX. **İkinci Basamaktan Parçalı Sürekli Argümentli Bir Diferensiyel Denklemin Salınımlı ve Periyodik Çözümleri Üzerine**
SEYHAN ÖZTEPE G., BERKETOĞLU H.
III. Ankara Matematik Günleri Sempozyumu, Turkey, 22 - 23 May 2008

Activities in Scientific Journals

- I. COMMUNICATIONS FACULTY OF SCIENCES UNIVERSITY OF ANKARA-SERIES A1 MATHEMATICS AND STATISTICS, Assistant Editor/Section Editor, 2021 - Continues

Memberships / Tasks in Scientific Organizations

- I. International Society of Difference Equations, Member, 2023 - Continues, United States Of America
- II. American Mathematical Society, Member, 2016 - Continues, United States Of America

Scientific Refereeing

- I. CARPATHIAN JOURNAL OF MATHEMATICS, SCI Journal, May 2024
- II. HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, Journal Indexed in SCI-E, August 2023
- III. HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, SCI Journal, September 2022

Scientific Consultations

- I. TÜBİTAK, Project Consultancy, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey, 2022 - Continues
- II. TÜBİTAK, Project Consultancy, Ankara University, Fen Fakültesi, Matematik Bölümü, Turkey, 2021 - 2021

Metrics

Publication: 36
Citation (WoS): 112
Citation (Scopus): 121
H-Index (WoS): 6
H-Index (Scopus): 6

Congress and Symposium Activities

- I. 29th International Conference on Difference Equations and Applications 24-28 Jun 2024 Paris (France), Attendee, Paris, France, 2024
- II. 2nd International E-Conference on Mathematical and Statistical Science: A Selcuk Meeting, Attendee, Konya, Turkey, 2023
- III. 8th International Conference on Intuitionistic Fuzzy Sets and Contemporary Mathematics (IFSCOM-2022), Attendee, Mersin, Turkey, 2022
- IV. 8th International Conference on Intuitionistic Fuzzy Sets and Contemporary Mathematics (IFSCOM-2022), Attendee, Mersin, Turkey, 2022
- V. The 25th International Conference on Difference Equations and Applications (ICDEA 2019), Attendee, London, England, 2019
- VI. International Conference on Mathematical Advances and Applications (ICOMAA-2018), Attendee, İstanbul, Turkey, 2018
- VII. International Conference on Applied Mathematics and Analysis (ICAMA 2016), In memory of Prof. Hüseyin Şirin Hüseyin, Attendee, Ankara, Turkey, 2016
- VIII. 11. Ankara Matematik Günleri, Attendee, Ankara, Turkey, 2016
- IX. Ankara Üniversitesi Matematik Bölüm Semineri, Invited Speaker, Ankara, Turkey, 2015
- X. 8. Ankara Matematik Günleri, 13-14 Haziran 2013, Çankaya Üniversitesi., Attendee, Ankara, Turkey, 2013
- XI. The International Conference on the Theory, Methods and Applications of Nonlinear Equations., Attendee, Texas, United States Of America, 2012
- XII. The 6th International Conference: Dynamical Systems and Applications, Attendee, Antalya, Turkey, 2010
- XIII. International Conference of Mathematical Sciences 2009 (ICMS 2009), Attendee, İstanbul, Turkey, 2009
- XIV. 3. Ankara Matematik Günleri Sempozyumu, Attendee, Ankara, Turkey, 2008

Scholarships

- I. 2219 Doktora Sonrası Araştırma Burs Programı , TUBİTAK, 2014 - 2015
- II. 2211 Yurt İçi Doktora burs Programı, TUBİTAK, 2009 - 2013