

## Asst. Prof. MEHTAP LAFCI BÜYÜKKAHRAMAN

### Personal Information

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### International Researcher IDs

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### Education Information

Associate Degree, Anadolu University, Açıköğretim Fakültesi, Görsel-İşitsel Teknikler Ve Medya Yapımcılığı Bölümü, Turkey 2016 - 2020

Doctorate, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), Turkey 2011 - 2017

Postgraduate, Gazi University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), Turkey 2008 - 2010

Undergraduate, Gazi University, Fen Fakültesi, Matematik Bölümü, Turkey 2004 - 2008

### Dissertations

Doctorate, Parçalı sürekli argümentli kısmi türevli denklemler, Ankara University, Fen Bilimleri Enstitüsü, Matematik (Dr), 2017

Postgraduate, Saçılma teorisi ve elektromanyetik dalga saçılması, Gazi University, Fen Bilimleri Enstitüsü, Matematik (YI) (Tezli), 2010

### Academic Titles / Tasks

Usak University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2023 - Continues

Research Assistant, Usak University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2017 - 2023

Research Assistant, Ankara University, Fen Fakültesi, Matematik Bölümü, 2012 - 2017

Research Assistant, Usak University, Fen-Edebiyat Fakültesi, Matematik Bölümü, 2010 - 2012

### Academic and Administrative Experience

Usak University, 2023 - Continues

Usak University, 2022 - Continues

Usak University, 2019 - 2021

### Courses

Matematik (Ziraat Fakültesi), Undergraduate, 2022 - 2023, 2021 - 2022

Matematik II (Harita Mühendisliği), Undergraduate, 2022 - 2023

Mesleki İngilizce I, Undergraduate, 2022 - 2023

Lisans Tezi I, Undergraduate, 2022 - 2023  
Lisans Tezi II, Undergraduate, 2022 - 2023  
Mesleki İngilizce II, Undergraduate, 2022 - 2023  
Temel Matematik, Undergraduate, 2021 - 2022  
Zaman Skalası I, Undergraduate, 2021 - 2022, 2019 - 2020  
Matematik II (Mühendislik Fakültesi), Undergraduate, 2019 - 2020  
Matematik, Undergraduate, 2019 - 2020  
Zaman Skalası II, Undergraduate, 2019 - 2020  
Matematik I (Mühendislik Fakültesi), Undergraduate, 2019 - 2020  
Sunum Hazırlama, Undergraduate, 2019 - 2020

## Articles Published in Other Journals

- I. **Behavior of the solutions of a single-species population model with piecewise constant argument**  
LAFCI BÜYÜKKAHRAMAN M.  
IRANIAN JOURNAL OF MATHEMATICAL SCIENCES AND INFORMATICS, 2023 (ESCI)
- II. **On the Mackey-Glass Model with Piecewise Constant Argument**  
LAFCI BÜYÜKKAHRAMAN M.  
APPLICATIONS AND APPLIED MATHEMATICS-AN INTERNATIONAL JOURNAL, vol.17, no.2, pp.601-612, 2022  
(Peer-Reviewed Journal)
- III. **The existence of the bounded solutions of a second order nonhomogeneous nonlinear differential equation**  
LAFCI BÜYÜKKAHRAMAN M.  
Communications Faculty of Sciences University of Ankara Series A1: Mathematics and Statistics, vol.70, no.2, pp.612-621, 2021 (ESCI)
- IV. **On oscillation of fourth order delay differential equations**  
LAFCI BÜYÜKKAHRAMAN M.  
Malaysian Journal of Mathematical Sciences, vol.14, no.2, pp.321-333, 2020 (ESCI)
- V. **On a certain impulsive differential system with piecewise constant arguments**  
LAFCI M., BEREKETOĞLU H.  
MATHEMATICAL SCIENCES, vol.8, no.1, 2014 (Peer-Reviewed Journal)

## Refereed Congress / Symposium Publications in Proceedings

- I. **A Mathematical Model to Study the Fundamental Functions of Phagocytes and Inflammatory Cytokines Post-Myocardial Infarction**  
LAFCI BÜYÜKKAHRAMAN M.  
Third Computational Science, Mathematical Modeling, and Engineering Conference (BEYOND 2023), Ankara, Turkey, 19 - 20 October 2023
- II. **A Mathematical Modeling of Post-Myocardial Infarction**  
LAFCI BÜYÜKKAHRAMAN M.  
2nd International E-Conference on Mathematical and Statistical Sciences: A Selçuk Meeting, Turkey, 5 - 07 June 2023
- III. **Mathematical Modeling of Myocardial Infarction Treatment with Stem Cells**  
LAFCI BÜYÜKKAHRAMAN M., V. KOJOUHAROV H., CHEN B., LIAO J.  
XXII International Conference on Mechanics in Medicine and Biology (ICMMB 2022), Bologna, Italy, 19 - 21 September 2022
- IV. **Convergence of the Solution of Impulsive Nicholson's Blowflies Model with Piecewise Constant Argument**

LAFCI BÜYÜKKAHRAMAN M.

7th Int. IFS and Contemporary Mathematics Conference (IFSCOM 2021), Turkey, 25 - 29 May 2021

- V. **On Oscillation of Nonlinear Impulsive Differential Equations System with Piecewise Constant Mixed Arguments**

LAFCI BÜYÜKKAHRAMAN M.

4th International Conference on Mathematics "An Istanbul Meeting for World Mathematicians", Turkey, 27 - 30 October 2020

- VI. **Mathematical Modeling of Left Ventricular Remodeling for Post-Myocardial Infarction**

LAFCI BÜYÜKKAHRAMAN M., K SABINE G., KOJOUHAROV H., CHEN B., R MCMAHAN S., LIAO J.

Siam Conference on Life Sciences (LS20), United States Of America, 11 June - 02 July 2020

- VII. **Mathematical Modeling and Stability Analysis of Left Ventricular Remodeling Post-Myocardial Infarction**

LAFCI BÜYÜKKAHRAMAN M., K SABINE G., KOJOUHAROV H., CHEN B., LIAO J., R MCMAHAN S.

Mathematical Modelling in Biomedicine (MBB), 30 September - 04 October 2019

- VIII. **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

- IX. **Mathematical Modeling of Left Ventricular Remodeling Post-Myocardial Infarction with and without Treatment**

LAFCI M., K SABINE G., KOJOUHAROV H., CHEN B., R MCMAHAN S., LIAO J.

Biology and Medicine Through Mathematics (BAMM 2019), 15 - 17 May 2019

- X. **Mathematical Modeling of Post-Myocardial Infarction Left Ventricular Remodeling**

LAFCI M., SABINE G. K., KOJOUHAROV H. V., CHEN CHARPENTIER B. M., MCMAHAN S. R., LIAO J.

AWM Research Symposium 2019, 6 - 07 April 2019

- XI. **Experimental and Mathematical Modeling of Intracellular Calcium Dynamics for Anticancer Effects Evaluation in Esophageal Cancer**

CHANG Y., FUNK M., LAFCI M., STEPHENSON E., KOJOUHAROV H., CHEN B., PAN Z.

Experimental Biology 2019, 6 - 09 April 2019, vol.33

- XII. **On Periodicity of Solutions of an Impulsive Differential Equation with Piecewise Constant Arguments**

LAFCI M.

37th Southeastern-Atlantic Regional Conference on Differential Equations (SEARCDE 2017), 7 - 08 October 2017

- XIII. **On a Partial Differential Equation with Piecewise Constant Arguments**

LAFCI M., BEREKETOĞLU H.

Caucasian Mathematics Conference II (CMC-II), 22 - 24 August 2017

- XIV. **On a Partial Differential Equation with Piecewise Constant Mixed Argument**

LAFCI M., BEREKETOĞLU H.

2nd International Conference on Computational Mathematics and Engineering Sciences (CMES 2017), 20 - 22 May 2017

- XV. **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

- XVI. **Qualitative properties of solutions of a partial differential equation with a piecewise constant argument**

LAFCI M., BEREKETOĞLU H.

5th International Eurasian Conference On Mathematical Sciences and Applications (IEMCSA 2016), 16 - 19 September 2016

- XVII. **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

- XVIII. **Parçalı Sürekli Argümentli Lineer Olmayan Bir Diferensiyel Denklemin Periyodik Çözümleri**

LAFCI M., BEREKETOĞLU H.

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

**XIX. Periodicity of Solutions of a Nonlinear Impulsive Differential Equation with Piecewise Constant Arguments**

LAFCI M.

17th International Conference on Applied Mathematics and Approximation Theory (ICAMAT 2015), 9 - 10 November 2015

**XX. 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 August - 28 May 2015

**XXI. Existence of Periodic Solutions of a Certain Impulsive Differential System with Piecewise Constant Arguments**

LAFCI M., BERKETOĞLU H.

3rd International Eurasian Conference on Mathematical Sciences and Applications (IECMSA 2014), 25 - 28 August 2014

**XXII. On a Certain Impulsive Differential System with Piecewise Constant Argument**

LAFCI M., BERKETOĞLU H.

International Conference on Nonlinear Differential and Difference Equations : Recent Developments and Applications, 27 - 30 May 2014

## **Metrics**

Publication: 27

Citation (Scopus): 1

H-Index (Scopus): 1