

## **Asst. Prof. BURAK KAYA**

### **Personal Information**

**Birthyear:** 1988

**Email:** burakk@metu.edu.tr

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### **Education Information**

Doctorate, Rutgers, The State University Of New Jersey, New Brunswick Campus, Graduate School-New Brunswick, Department Of Mathematics, United States Of America 2010 - 2016

Under Graduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey 2006 - 2010

### **Foreign Languages**

English, C1 Advanced

### **Dissertations**

Doctorate, Cantor minimal systems from a descriptive perspective, Rutgers, The State University Of New Jersey, New Brunswick Campus, Graduate School-New Brunswick, Department Of Mathematics, 2016

### **Research Areas**

Mathematics, Dynamic Systems and Ergodic Theory, General Algebraic Systems, General Topology, Mathematical Logic and Foundations, Natural Sciences

### **Academic Titles / Tasks**

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2018 - Continues

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2017 - 2018

Research Assistant, Rutgers, The State University of New Jersey, New Brunswick Campus, Graduate School-New Brunswick, Department Of Mathematics, 2010 - 2016

### **Courses**

INTRODUCTION TO MATHEMATICAL LOGIC AND MODEL THEORY, Under Graduate, 2019 - 2020

CALCULUS WITH ANALYTIC GEOMETRY, Under Graduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021

TOPOLOGY, Post Graduate, 2020 - 2021

BASIC ALGEBRAIC STRUCTURES, Under Graduate, 2018 - 2019

FUNDAMENTALS OF MATHEMATICS, Under Graduate, 2018 - 2019, 2019 - 2020

ANALYSIS, Post Graduate, 2019 - 2020

CALCULUS OF FUNCTIONS OF SEVERAL VARIABLES, Under Graduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019

SUPERVISED INDEPENDENT STUDY & RESEARCH, Under Graduate, 2019 - 2020

SET THEORY, Under Graduate, 2016 - 2017, 2017 - 2018, 2018 - 2019

LEBESGUE INTEGRAL, Under Graduate, 2017 - 2018

## Advising Theses

Kaya B., Some new bounds on closed ordinal Ramsey numbers, Post Graduate, I.SAĞLAM(Student), 2020

## Designed Lessons

Kaya B., Talu E. Y. , Solak E., Mathematics for Informatics, Under Graduate, 2018 - 2019

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

### I. On the existence of kappa-existentially closed groups

Kaya B., Kegel O. H. , Kuzucuoglu M.

ARCHIV DER MATHEMATIK, vol.111, pp.225-229, 2018 (Journal Indexed in SCI)

### II. THE COMPLEXITY OF THE TOPOLOGICAL CONJUGACY PROBLEM FOR TOEPLITZ SUBSHIFTS

Kaya B.

ISRAEL JOURNAL OF MATHEMATICS, vol.220, no.2, pp.873-897, 2017 (Journal Indexed in SCI)

### III. The complexity of topological conjugacy of pointed Cantor minimal systems

Kaya B.

ARCHIVE FOR MATHEMATICAL LOGIC, vol.56, pp.215-235, 2017 (Journal Indexed in SCI)

## Citations

Total Citations (WOS):2

h-index (WOS):1