

## Asst. Prof. BURAK KAYA

### Personal Information

**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

Undergraduate, 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

### 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, Undergraduate, 2019 - 2020, 2021 - 2022

INTRODUCTION TO FUNCTIONAL ANALYSIS, Undergraduate, 2021 - 2022

CALCULUS OF FUNCTIONS OF SEVERAL VARIABLES, Undergraduate, 2015 - 2016, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2020 - 2021

SUPERVISED INDEPENDENT STUDY & RESEARCH, Undergraduate, 2019 - 2020, 2021 - 2022

SET THEORY, Undergraduate, 2016 - 2017, 2017 - 2018, 2018 - 2019, 2020 - 2021  
CALCULUS WITH ANALYTIC GEOMETRY, Undergraduate, 2017 - 2018, 2018 - 2019, 2019 - 2020, 2020 - 2021  
TOPOLOGY, Postgraduate, 2020 - 2021  
BASIC ALGEBRAIC STRUCTURES, Undergraduate, 2018 - 2019  
FUNDAMENTALS OF MATHEMATICS, Undergraduate, 2018 - 2019, 2019 - 2020  
ANALYSIS, Postgraduate, 2019 - 2020  
LEBESGUE INTEGRAL, Undergraduate, 2017 - 2018

## Advising Theses

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

## Designed Lessons

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

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

- I. **ON THE CLOSED RAMSEY NUMBERS  $R\text{-cl}(\omega + n, 3)$**   
KAYA B., Saglam I.  
ISRAEL JOURNAL OF MATHEMATICS, vol.245, no.2, pp.963-989, 2021 (Journal Indexed in SCI)
- II. **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)
- III. **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)
- IV. **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