

## **Assoc. Prof. MUSTAFA GÖKHAN BENLİ**

### **Personal Information**

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### **International Researcher IDs**

ScholarID: -tF-FuwAAAAJ

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Publons / Web Of Science ResearcherID: ABA-1423-2020

ScopusID: 55173409900

Yoksis Researcher ID: 229832

### **Education Information**

Doctorate, Texas A&M University, Faculty of Sciences, Mathematics, United States Of America 2007 - 2013

Undergraduate Double Major, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, Turkey 2003 - 2005

Undergraduate, Middle East Technical University, Faculty of Arts and Sciences, Department of Statistics, Turkey 1999 - 2004

### **Foreign Languages**

English, C2 Mastery

German, B2 Upper Intermediate

### **Dissertations**

Doctorate, PRESENTATIONS AND STRUCTURAL PROPERTIES OF SELF-SIMILARGROUPS AND GROUPS WITHOUT FREE SUB-SEMIGROUPS, Texas A&M University, Faculty of Sciences, Mathematics, 2013

### **Research Areas**

Group Theory and Generalizations

### **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, 2015 - 2018

Assistant Professor, Middle East Technical University KKTC CAMPUS, Mathematics, 2014 - 2015

Assistant Professor, Texas A&M University, Science, Mathematics, 2013 - 2014

Research Assistant, Texas A&M University, Science, Mathematics, 2007 - 2013

Research Assistant, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2005 - 2007

## Academic and Administrative Experience

Fakülte Kurulu Üyesi, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2022 - Continues

Erasmus Program Institutional Coordinator, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2015 - Continues

Mevlana Exchange Program Institutional Coordinator, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2015 - Continues

## Courses

CALCULUS I, Undergraduate, 2023 - 2024

Lebesgue Integral, Undergraduate, 2022 - 2023

Calculus With Analytic Geometry, Undergraduate, 2023 - 2024, 2017 - 2018, 2016 - 2017, 2015 - 2016, 2014 - 2015

Basic Algebraic Structures, Undergraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019, 2015 - 2016

Research and Ethics in Mathematics, Postgraduate, 2022 - 2023, 2021 - 2022, 2019 - 2020, 2018 - 2019

Linear Algebra 1, Undergraduate, 2021 - 2022

Fundamentals of Mathematics, Undergraduate, 2022 - 2023, 2020 - 2021, 2019 - 2020, 2018 - 2019

Algebra II, Postgraduate, 2021 - 2022, 2018 - 2019

Basic Linear Algebra, Undergraduate, 2022 - 2023, 2021 - 2022, 2020 - 2021, 2019 - 2020

Calculus of Functions of Several Variables, Undergraduate, 2021 - 2022, 2017 - 2018, 2016 - 2017, 2015 - 2016

Abstract Algebra, Postgraduate, 2021 - 2022, 2018 - 2019

CALCULUS II , Undergraduate, 2020 - 2021

Point-Set Topology, Undergraduate, 2019 - 2020

Abstract Algebra, Undergraduate, 2017 - 2018, 2016 - 2017

## Advising Theses

Benli M. G., Kaya B., SOFIC GROUPS , Postgraduate, H.KAĞAN(Student), Continues

Benli M. G., RANDOM WALKS ON GROUPS AND AMENABILITY, Postgraduate, A.Mahmudov(Student), Continues

Benli M. G., TOPOLOGICAL FULL GROUP OF CANTOR MINIMAL SYSTEMS, Doctorate, A.Özdemir(Student), Continues

BENLİ M. G., Algebraic properties of the Richard Thompson's group F and its applications in cryptography, Postgraduate, H.YETER(Student), 2021

Benli M. G., Otomata grupları ve özbenzer gruplar, Postgraduate, B.NUR(Student), 2019

Benli M. G., Ürtiş Ç., Cantor Minimal Sistemlerin Topolojik Tam Grupları, Postgraduate, A.Özdemir(Student), 2017

## Published journal articles indexed by SCI, SSCI, and AHCI

### I. Descriptive complexity of subsets of the space of finitely generated groups

BENLİ M. G., KAYA B.

Expositiones Mathematicae, vol.40, no.4, pp.1116-1134, 2022 (SCI-Expanded)

### II. Universal groups of intermediate growth and their invariant random subgroups

BENLİ M. G., Grigorchuk R., Nagnibeda T.

FUNCTIONAL ANALYSIS AND ITS APPLICATIONS, vol.49, no.3, pp.159-174, 2015 (SCI-Expanded)

### III. On growth of random groups of intermediate growth

Benli M. G., Grigorchuk R., Vorobets Y.

GROUPS GEOMETRY AND DYNAMICS, vol.8, no.3, pp.643-667, 2014 (SCI-Expanded)

### IV. Amenable groups without finitely presented amenable covers

Benli M. G., Grigorchuk R., de la Harpe P.

BULLETIN OF MATHEMATICAL SCIENCES, vol.3, no.1, pp.73-131, 2013 (SCI-Expanded)

### V. PROFINITE COMPLETION OF GRIGORCHUK'S GROUP IS NOT FINITELY PRESENTED

Benli M. G.

INTERNATIONAL JOURNAL OF ALGEBRA AND COMPUTATION, vol.22, no.5, 2012 (SCI-Expanded)

### VI. INDICABLE GROUPS AND ENDOMORPHIC PRESENTATIONS

Benli M. G.

GLASGOW MATHEMATICAL JOURNAL, vol.54, no.2, pp.335-344, 2012 (SCI-Expanded)

## Articles Published in Other Journals

#### I. Uncountably many 2-generated just-infinite branch pro-2 groups

BENLİ M. G., Grigorchuk R.

ALGEBRA & DISCRETE MATHEMATICS, vol.19, no.1, pp.8-18, 2015 (ESCI)

#### II. On the condensation property of the lamplighter groups and groups of intermediate growth

BENLİ M. G., Rostislav G.

ALGEBRA & DISCRETE MATHEMATICS, vol.17, no.2, pp.222-231, 2014 (Scopus)

## Supported Projects

BENLİ M. G., Project Supported by Higher Education Institutions, Orta büyümlü grupların Schreier çizgelerinin spektrumları, 2016 - 2022

## Memberships / Tasks in Scientific Organizations

Türk Matematik Derneği, Member, 2023 - Continues, Turkey

## Scientific Refereeing

TUBITAK Project, 3501 - National Young Researcher Career Development Program, Middle East Technical University, Turkey, February 2024

ALGEBRA AND DISCRETE MATHEMATICS, Journal Indexed in ESCI, November 2023

TUBITAK Project, 1001 - Program for Supporting Scientific and Technological Research Projects, Gebze Technical University, Turkey, November 2022

INTERNATIONAL JOURNAL OF GROUP THEORY, Journal Indexed in ESCI, June 2022

Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, June 2022

Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, August 2020

BULETINUL ACADEMIEI DE ŞTIINTE A REPUBLICII MOLDOVA. MATEMATICA, Other Indexed Journal, June 2020

INTERNATIONAL JOURNAL OF GROUP THEORY, Journal Indexed in ESCI, June 2020

Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey, June 2020

Project Supported by Higher Education Institutions, BAP Research Project, Middle East Technical University, Turkey,

November 2018

TUBITAK Project, 1002 - Quick Support Program, Cukurova University, Turkey, September 2018

INTERNATIONAL JOURNAL OF GROUP THEORY, Journal Indexed in ESCI, June 2018

GROUPS, GEOMETRY, AND DYNAMICS, Journal Indexed in SCI-E, November 2017

HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, National Scientific Refreed Journal, June 2017

ALGEBRA AND DISCRETE MATHEMATICS, Journal Indexed in ESCI, June 2016

TURKISH JOURNAL OF MATHEMATICS, National Scientific Refreed Journal, June 2014

## Tasks In Event Organizations

Benli M. G., Koçak Benli D., Tuvay İ., Altunbulak Aksu F., Hafezieh R., Antalya Algebra Days XXI, Scientific Congress, İzmir, Turkey, Mayıs 2019

Benli M. G., Küçüksakallı Ö., Solak E., Betin Onur C., Group Theory in Ankara, Scientific Congress, Ankara, Turkey, Mayıs 2019

Solak E., Benli M. G., Küçüksakallı Ö., Kuzucuoğlu M., Talu E. Y., Koç A., 4th Cemal Koç Algebra Days, Scientific Congress, Ankara, Turkey, Nisan 2016

Benli M. G., Tuvay İ., Arslan S. F., Pierce D., Ersoy K., Berkman A., Antalya Algebra Days XVII, Scientific Congress, İzmir, Turkey, Mayıs 2015

## Metrics

Publication: 8

Citation (WoS): 19

Citation (Scopus): 19

H-Index (WoS): 2

H-Index (Scopus): 2

## Congress and Symposium Activities

6th Cemal Koç Algebra Days, Invited Speaker, İstanbul, Turkey, 2018

Second Romanian-Turkish Mathematics Colloquium, Galatasaray University, 2017, Invited Speaker, İstanbul, Turkey, 2017

IMBM Matematik Günleri, Invited Speaker, İstanbul, Turkey, 2017

4th Biennial International Group Theory, Invited Speaker, Kuala-Lumpur, Malaysia, 2017

Models and Groups, Istanbul 4, Invited Speaker, İstanbul, Turkey, 2015

Models and Groups, Istanbul 3, Invited Speaker, İstanbul, Turkey, 2014

27. Ulusal Matematik Sempozyumu, Invited Speaker, İstanbul, Turkey, 2014

AMS Sectional Meeting, University of Kansas, Lawrence March, 2012, Invited Speaker, Kansas, United States Of America, 2012

## Invited Talks

Çankaya Üniversitesi Matematik Bölümü Genel Semineri, "Descriptive complexity of subsets of the space of finitely generated groups", Seminar, Çankaya Üniversitesi, Turkey, December 2019

9. Salih Zeki Matematik Araştırma Projeleri Yarışması, "Permütasyonlar ve Oyunlar", Seminar, Darüşşafaka Eğitim Kurumları, Turkey, May 2018

Bilkent University Algebra Seminar, "Groups of intermediate growth", Seminar, İhsan Doğramacı Bilkent Üniversitesi, Turkey, December 2016

MAtematik Bölümü Genel Semineri, "On Random Groups of Intermediate Growth", Seminar, Mimar Sinan Güzel Sanatlar Üniversitesi, Turkey, December 2013  
University of Geneva Department of Mathematics Genral Seminar,"Profinite completions of branch groups", Seminar, University of Geneva, Switzerland, March 2013  
University of Geneva Department of Mathematics Genral Seminar,"Amenable groups without finitely presented amenable extensions", Seminar, Université de Genève (University of Genève), Switzerland, April 2012

## **Awards**

Benli M. G., L.F. Guseman Prize in Mathematics, Texas A&M Univerity, May 2012