

# Müge Saadetoğlu

## Address:

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**Nationality:** Turkish Cypriot

## EDUCATION AND QUALIFICATIONS

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### • PhD

- University of Southampton Oct. 2001- Mar. 2005
- Thesis Title: *Finiteness Conditions and Bestvina-Brady Groups*
- Supervisor: Prof. Ian J. Leary
- Area of Research: *Algebraic Topology*. More precisely, three main topics of Study have been Finiteness Properties, Bestvina-Brady Groups and Euler Characteristics.
- *The last six months of my research were spent as a visiting scholar at Ohio-State University Math Department (Oct. 04- Mar. 05).*

### • BSc

- University of Southampton 1998-2001
- Mathematics, First Class Honours
- Wide range of subjects in Pure Mathematics including Rings & Fields, Theory of Numbers, Algorithms, Hyperbolic Geometry, Topology, Group Theory and Applications, Topics in Applied Mathematics and Finite Mathematics

### • College

- Türk Maarif College, Nicosia, Cyprus 1995-1998
- High School Diploma: 4<sup>th</sup> highest GPA in School
- 2 A Levels: Mathematics (B), Turkish (A)  
9 O-levels including Maths and English, 6 grade A's

## WORK EXPERIENCE

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- *Assist. Prof. Dr.* at Eastern Mediterranean University, Gazimagusa, Mersin 10, Turkey: Mate306- Topoloji, Math206- Linear Algebra II, Math566- Linear Algebra (Graduate course), Math535- Topology (Graduate course) are few new courses taught in addition to the ones given below. (01.03.2010- Present)
- *Lecturer, Dr.* at Eastern Mediterranean University, Gazimagusa, Mersin 10, Turkey: Math151: Calculus I, Math106: Linear Algebra, Mate321: Cebire Giriş, Math124: Geometry, Mate307: Cebir, Math223: Linear Algebra, Math415: Introduction to Abstract Algebra, Mate104: Soyut Matematik II, Mate112: Soyut Matematik are among the courses taught so far. (2006 -2010).
- *Research Scholar* at Ohio-State University, Columbus, Ohio: I have interacted in research with staff of the Math Department, especially with my PhD supervisor Prof. Ian J Leary (17/09/04 – 30/03/05).
- *Postgraduate Teaching Assistant* at University of Southampton, UK: I delivered Maths tutorials for Engineering Foundation Year Students and for first year Maths undergraduates (2001-2004).
- *Private Tutor* at University of Southampton, UK: I have done private tutoring for two engineering foundation year students (Jan-Jun 2002).

## SCHOLARSHIPS

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- Fully funded by the Ohio-State university math department and by my PhD supervisor Prof. Ian Leary during my visit at Ohio-State as a research scholar. (17/09/04- 30/03/05).
- Fully funded by the University of Southampton and the Overseas Research Scholarships Committee for postgraduate studies (2001-2004).

- Awarded the only full British Chevening Scholarship given to Northern Cyprus in 1998 for undergraduate studies in UK (1998-2001).

## **PUBLICATIONS**

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- Avkan, A., Nagy, B. and Saadetoğlu, M., *Digitized Rotations of Closest Neighborhood on the Triangular Grid*, IWCMIA2018, International Workshop on Combinatorial Image Analysis Proceedings, (2018) 53-67.
- Leary, I. and Saadetoğlu, M., *A Topological Proof of a version of Artin's Induction Theorem*, Draft, To Appear.
- Leary, I. and Saadetoğlu, M., *The cohomology of Bestvina-Brady groups*, Groups, Geometry and Dynamics, **5** (2011), 121-138.
- Leary, I. and Saadetoğlu, M., *Ordinary homology of Bestvina-Brady groups*, Oberwolfach Report, Volume **3**, Issue **2**, (2006) 1191-1192.
- Leary, I. and Saadetoğlu, M., *Some groups of finite homological type*, Geometriae Dedicata, **119** (2006) 113-120.
- Saadetoğlu, M., *Finiteness Conditions and Bestvina-Brady Groups*, University of Southampton PhD Thesis, March 2005.

## **PRESENTATIONS-TALKS**

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- Have given a talk entitled 'A topological proof of a version of Artin's induction theorem' at General Seminars of M.E.T.U., Ankara, March 2015.
- Have given a presentation entitled 'A topological proof of a version of Artin's induction theorem' at International Congress of Mathematicians (ICM 2014) in Seoul, South Korea, August 2014.
- Have given a talk entitled 'Euler characteristics of some groups' at 2nd Joint EMU-METU (North Cyprus Campus) Seminar, May 2006.
- Have given a seminar at Eastern Mediterranean University in Cyprus, as invited speaker of Ping Zhang, on 'Groups which have FHT but not of type FP', April 2005.
- Have given a Topology seminar at Ohio-State University Math Department entitled 'Groups which have FHT but not of type FP', November 2004.
- Have given a talk in British Mathematical Colloquium 2004 entitled 'Group which has FHT but not of type FP.'
- Presented a poster in LMS Durham Symposium on 'Geometry and Cohomology in Group Theory' July 2003.

## **CONFERENCES ATTENDED**

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I have attended several maths conferences so far. Below I list the main ones:

- 19<sup>th</sup> International Workshop, IWCMIA 2018, Porto, Portugal, November 22-24, 2018.
- International Congress of Mathematicians, Seoul, South Korea, August, 2014.
- International Congress of Mathematicians, Madrid, Spain; 22-30 August 2006
- British Women in Mathematics Day, De Morgan House, London 25 May 2005
- London Mathematical Society (LMS) invited lectures, Southampton 5-9 July 2004
- Workshop in Münster, Germany entitled 'Classifying spaces for families of subgroups' June 2004
- British Mathematical Colloquium 2004, Belfast, April 2004
- British Topology Meeting 18, Manchester, September 2003
- LMS Durham Symposium on 'Geometry and Cohomology in Group Theory' Durham, July 2003
- 55<sup>th</sup> British Mathematics Colloquium, Birmingham, April 2003
- Topology Meeting, King's College London, 6 December 2002
- Discrete Groups and Analysis Workshop, Southampton, 5-7 September 2002
- Barcelona Conference on Algebraic Topology (BCAT), Barcelona, Spain, 2-6 July 2002
- 4<sup>th</sup> Postgraduate Group Theory Conference, Birmingham, 17-19 April 2002
- British (Applied) Mathematical Colloquium, Warwick, 8-11 April 2002
- 17<sup>th</sup> British Topology Meeting, Leicester, 5-7 April 2002

## **SUPERVISED STUDENTS**

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### **Ph.D. Supervision**

**Aydın Avkan;** ‘Discrete Rotations on the Triangular Plane’ (co-advisor with Benedek Nagy), ongoing.

### **M.Sc. Supervision**

**Aydın Avkan;** ‘Irreducible Representations of Some Finite Groups’, Eastern Mediterranean University, 2016.

**Sedef S. Emin;** ‘Invariants and Bestvina- Brady Groups’, Eastern Mediterranean University, 2015.

**Ajaeb ElFadel;** ‘Cryptography by means of Linear Algebra and Number Theory’, Eastern Mediterranean University, 2014.

**Cemaliye Kürt;** ‘Euler Characteristics of Groups; C.T.C. Wall’s Approach’, Eastern Mediterranean University, 2012.

## **COMPUTER SKILLS**

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- Latex, Microsoft Word, Excel, X-fig (working knowledge)
- C-programming, Visual Basic, Java (limited)

## **LANGUAGES**

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- Turkish (Mother-tongue), English (Fluent), German (Basic)

## **ACTIVITIES AND INTERESTS**

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I enjoy cinema, reading, cycling, walking, listening to music and keep fit classes. During my years at University of Southampton, I have also been an active member of the Staff Club Ladies Football team and the Turkish Society of the University of Southampton.