Tuğba Yesin

Sabancı University
Department of Mathematics

Contact Information

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Education

Ph.D. in Mathematics, Sabancı University, Present
Thesis: Arithmetic of Elliptic Curves and Rational Diophantine Tuples
Advisor: Mohammad Sadek
GPA: 3.81/4.0

Master of Science in Mathematics, Sabancı University, January 2017
Thesis: On Polynomials Over Finite Fields with Particular Value Sets
Advisor: Alev Topuzoğlu
GPA: 3.72/4.0

Bachelor of Science in Mathematics, İstanbul Bilgi University, July 2014
Graduation Project: Lie Algebra
Advisor: Pınar Uğurlu
GPA: 3.15/4.0

Research Interests

Elliptic Curves, Arithmetic of Dynamical Systems, Algebraic Number Theory

Publications, Preprints

1. *A Dynamical Analogue of a question of Fermat*, Mohammad Sadek and Tuğba Yesin, submitted.

2. *Divisibility by 2 on quartic models of elliptic curves and rational Diophantine D(q)-quintuples*, Mohammad Sadek and Tuğba Yesin, Revista de la Real Academia de Ciencias Exactas, Fisicas y Naturales - Serie A: Matematicas, RACSAM, volume 116 (2022), Article number: 139, (17 pp)

Academic Awards

September 2022 - Current,	"TÜBİTAK scholarship (Scientific and Technological Research Council of Turkey)", Sabancı University
September 2018 - September 2022,	"Full tuition Scholarship for Ph.D.", Sabancı University.
September 2014 - January 2017,	"Full tuition Scholarship for M.Sc.", Sabancı University.
September 2009 - June 2014,	"Full tuition Scholarship", İstanbul Bilgi University.

Talks

Palmetto Number Theory Series (PANTS)   *10 December 2022*
University of South Carolina, USA
A dynamical analogue of a question of Fermat

Algebra Seminars   *23 November 2022*
Sabancı University, Turkey
Divisibility by 2 on quartic models of elliptic curves and rational Diophantine $D(q)$-quintuples

Algebra Workshop III, Turkey   *5 November 2022*
ONLINE
Diophantine m-tuples and divisibility by 2 on quartic models of elliptic curves

Algebra, Geometry and Number Theory Seminar   *21 October 2022*
University of South Carolina, USA
Divisibility by 2 on quartic models of elliptic curves and rational Diophantine $D(q)$-quintuples

Spring Mathematics Meetings, Turkey   *30-31 October 2021*
ONLINE
Diophantine m-tuples

Diophantine m-tuples and related problems III
ONLINE
Participant
14-16 September 2022

SuSAAN summer school
Nesin Mathematics Village
Participant
6-17 June 2022

Directed Reading Program (DRP) Turkey
ONLINE
Mentor
June-August 2022

CIMPA summer school
IMBM, Boğaziçi University
Participant
23-27 August 2021

Elliptic curves and the special values of L-functions
ONLINE
Participant
2-7 August 2021

Journées Arithmétiques
Istanbul University
Participant
1-5 July 2019

Antalya Algebra Days
Nesin Mathematics Village
Participant
15-19 May 2019

Workhop on Finite Fields, Function Fields and Their Application
Karaköy Minevra Palas, Istanbul
Participant
26-27 April 2018

Bahar Mathematics Meeting
Bilkent University, Ankara
Participant
7-8 October 2017

Antalya Algebra Days
Nesin Mathematics Village
Participant
18-22 May 2016

TEACHING EXPERIENCE

Sabancı University - Teaching Assistant   September 2014-Present

Math 101 Calculus I
Math 102 Calculus II
Math 201 Linear Algebra
Math 203 Introduction to Probability
Math 204 Discrete Mathematics
Math 317 Elemantary Number Theory
***All these courses above are problem sessions and taught in English.

COMPUTER SKILLS

Mathematica, Magma, Latex

LANGUAGES

English, Turkish

REFERENCES

Mohammad Sadek   Sabancı University
e-mail : mohammad.sadek@sabanciuniv.edu

Alev Topuzoğlu   Sabancı University
e-mail : alev@sabanciuniv.edu