

Assoc. Prof. ÖMER KÜÇÜKSAKALLI

Personal Information

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International Researcher IDs

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Publons / Web Of Science ResearcherID: ABA-4131-2020

ScopusID: 36816194200

Yoksis Researcher ID: 164003

Education Information

Doctorate, University of Massachusetts Amherst, College of Natural Sciences, Department of Mathematics and Statistics, United States Of America 2006 - 2009

Postgraduate, University of Massachusetts Amherst, College of Natural Sciences, Department of Mathematics and Statistics, United States Of America 2004 - 2006

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

Foreign Languages

English, C1 Advanced

Dissertations

Doctorate, Class numbers of ray class fields of imaginary quadratic fields, University Of Massachusetts Amherst, Matematik Ve İstatistik Bölümü, 2009

Research Areas

Mathematics, Nonassociative Rings and Algebras, Algebraic Geometry, Commutative Rings and Algebras, Number Theory, Natural Sciences

Academic Titles / Tasks

Associate Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2016 - Continues

Assistant Professor, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2010 - 2016

Lecturer PhD, Middle East Technical University, Faculty of Arts and Sciences, Department of Mathematics, 2009 - 2010

Research Assistant, University of Massachusetts Amherst, College of Natural Science, Mathematics and Statistics, 2004 - 2009

Courses

Elliptic Curves, Postgraduate, 2022 - 2023, 2021 - 2022
Theory of Function Fields, Postgraduate, 2023 - 2024
Introduction to Number Theory, Undergraduate, 2023 - 2024
Linear Algebra I, Undergraduate, 2022 - 2023, 2018 - 2019
Abstract Algebra, Undergraduate, 2022 - 2023
Algebraic Number Theory, Postgraduate, 2022 - 2023, 2021 - 2022, 2017 - 2018
Calculus of Functions of Several Variables, Undergraduate, 2021 - 2022
Lie algebras, Postgraduate, 2022 - 2023
Algebra II, Postgraduate, 2020 - 2021
Calculus for Mathematics Students I, Undergraduate, 2020 - 2021, 2019 - 2020
Calculus with Analytic Geometry, Undergraduate, 2021 - 2022
Algebra I, Postgraduate, 2020 - 2021
Elementary Number Theory II, Undergraduate, 2019 - 2020
Calculus I, Undergraduate, 2020 - 2021
Introduction to Representation Theory, Undergraduate, 2018 - 2019
Linear Algebra II, Undergraduate, 2018 - 2019
Introduction to Differential Equations, Undergraduate, 2019 - 2020
Groups and Geometry, Undergraduate, 2019 - 2020
Ideals Varieties and Algorithms, Undergraduate, 2018 - 2019
Basic Algebraic Structures, Undergraduate, 2017 - 2018

Advising Theses

Küçüksakallı Ö., EXPLORING BERNOULLI NUMBERS AND THEIR APPLICATIONS, Postgraduate, A.ABDELRAZIK(Student), 2024
Küçüksakallı Ö., On the Jacobian matrices of generalized Chebyshev polynomials, Postgraduate, A.İLERİ(Student), 2023
Küçüksakallı Ö., Arithmetically exceptional lattès maps attached to elliptic curves without complex multiplication, Postgraduate, O.ODABAŞ(Student), 2023
KÜÇÜKSAKALLI Ö., Coefficients of folding polynomials attached to lie algebras of rank two, Postgraduate, M.AYDOĞDU(Student), 2021

Jury Memberships

Appointment to Academic Staff-Assistant Professorship, Appointment to Academic Staff-Assistant Professorship, Boğaziçi Üniversitesi, July, 2023
PhD Thesis Monitoring Committee Member, PhD Thesis Monitoring Committee Member, Orta Doğu Teknik Üniversitesi, December, 2022

Designed Lessons

Küçüksakallı Ö., Algorithmic Number Theory, Postgraduate, 2022 - 2023
Küçüksakallı Ö., Elliptic Curves, Postgraduate, 2021 - 2022

Published journal articles indexed by SCI, SSCI, and AHCI

- I. **Value sets of folding polynomials over finite fields**
KÜÇÜKSAKALLI Ö.
TURKISH JOURNAL OF MATHEMATICS, vol.43, no.3, pp.1407-1413, 2019 (SCI-Expanded)
- II. **Value sets of bivariate folding polynomials over finite fields**
KÜÇÜKSAKALLI Ö.
FINITE FIELDS AND THEIR APPLICATIONS, vol.54, pp.253-272, 2018 (SCI-Expanded)
- III. **Arithmetic exceptionality of generalized Lattes maps**
KÜÇÜKSAKALLI Ö., ÖNSİPER M. H.
JOURNAL OF THE MATHEMATICAL SOCIETY OF JAPAN, vol.70, no.2, pp.823-832, 2018 (SCI-Expanded)
- IV. **On the arithmetic exceptionality of polynomial mappings**
KÜÇÜKSAKALLI Ö.
BULLETIN OF THE LONDON MATHEMATICAL SOCIETY, vol.50, no.1, pp.143-147, 2018 (SCI-Expanded)
- V. **Bivariate polynomial mappings associated with simple complex Lie algebras**
KÜÇÜKSAKALLI Ö.
JOURNAL OF NUMBER THEORY, vol.168, pp.433-451, 2016 (SCI-Expanded)
- VI. **Value sets of bivariate Chebyshev maps over finite fields**
KÜÇÜKSAKALLI Ö.
FINITE FIELDS AND THEIR APPLICATIONS, vol.36, pp.189-202, 2015 (SCI-Expanded)
- VII. **On the computation of generalized division polynomials**
KÜÇÜKSAKALLI Ö.
TURKISH JOURNAL OF MATHEMATICS, vol.39, no.4, pp.547-555, 2015 (SCI-Expanded)
- VIII. **Value sets of Lattes maps over finite fields**
Kucuksakalli O.
JOURNAL OF NUMBER THEORY, vol.143, pp.262-278, 2014 (SCI-Expanded)
- IX. **On the units generated by Weierstrass forms**
KÜÇÜKSAKALLI Ö.
LMS JOURNAL OF COMPUTATION AND MATHEMATICS, vol.17, pp.303-313, 2014 (SCI-Expanded)
- X. **A RECURRENCE RELATION FOR BERNOULLI NUMBERS**
KÜÇÜKSAKALLI Ö.
HACETTEPE JOURNAL OF MATHEMATICS AND STATISTICS, vol.42, no.4, pp.319-329, 2013 (SCI-Expanded)
- XI. **Class numbers of ring class fields of prime conductor**
KÜÇÜKSAKALLI Ö.
ACTA ARITHMETICA, vol.153, no.3, pp.251-269, 2012 (SCI-Expanded)
- XII. **CLASS NUMBERS OF RAY CLASS FIELDS OF IMAGINARY QUADRATIC FIELDS**
Kucuksakalli O.
MATHEMATICS OF COMPUTATION, vol.80, no.274, pp.1099-1122, 2011 (SCI-Expanded)

Articles Published in Other Journals

- I. **A Proof of the Lucas-Lehmer Test and its Variations by Using a Singular Cubic Curve**
KÜÇÜKSAKALLI Ö.
JOURNAL OF INTEGER SEQUENCES, vol.21, no.6, 2018 (ESCI)

Refereed Congress / Symposium Publications in Proceedings

- I. **Value sets of Lattes maps over finite fields**
KÜÇÜKSAKALLI Ö.

The 12th International Conference on Finite Fields and Their Applications, New York, United States Of America, 13 - 17 July 2015

II. **Weierstrass Formları Tarafından Üretilen Tersinir Elemanlar Üzerine**

KÜÇÜKSAKALLI Ö.

10. Ankara Matematik Günleri, Ankara, Turkey, 11 - 12 June 2015

III. **On the units generated by Weierstrass forms**

KÜÇÜKSAKALLI Ö.

Algorithmic Number Theory Symposium XI, Gyeongju, South Korea, 6 - 11 August 2014, vol.17, pp.303-313

Supported Projects

Küçüksakallı Ö., TUBITAK Project, Eğri Tabanlı Kriptografiye Matematiksel Bakış 112T011, 2012 - 2014

Metrics

Publication: 16

Citation (WoS): 17

Citation (Scopus): 17

H-Index (WoS): 3

H-Index (Scopus): 3