

Dr. Cihan Pehlivan

Koç University, Department of Mathematics
Istanbul, Turkey

Email: cihanp@gmail.com

Research Area

- *Analytic Number Theory, Elliptic Curves, Sieve Methods, Primitive Roots*

Current Position

- *TUBİTAK Postdoctoral Researcher at Koç University*

Education

- **Università degli Studi Roma Tre** Rome, Italy
Ph.D. in Mathematics 2012-2015
 - Ph.D Advisor: Prof. Dr. Francesco Pappalardi
 - Ph.D. Thesis Title: *Some average results connected with reductions of groups of rational numbers*
 - Courses: Number Theory, Algebraic Number Theory, Analytic Number Theory
 - Seminars: Chebotarev Density Theorem
- **Boğaziçi University** Istanbul, Turkey
M.Sc. in Mathematics 2008-2011
 - M. Sc. Advisor: Assist. Prof. Özlem Beyarslan
 - M. Sc. Thesis Title: *O-minimal Structures*
 - Relevant courses: Algebra I-II, Real Analysis I-II, Topology, Complex Analysis I-II, Functional Analysis
- **Bilgi University** Istanbul, Turkey
B.S. in Financial Mathematics 2003-2007
 - B.S. Advisor: Prof. Dr. Alövsat Müslümov
 - B.S. Thesis Title: *Co-integrated Pairs and Pair Trading Strategy in Turkish Stock Market*
- **Middle East Technical University** Ankara, Turkey
Electrical and Electronics Engineering 1998-2002(left)

Papers

- The average multiplicative order of a finitely generated subgroup of rationals modulo primes (accepted to IJNT).
<http://www.worldscientific.com/doi/pdf/10.1142/S1793042116501281?src=recsys>

- Average r -rank Artin conjecture (joint work with Lorenzo Menici, accepted to Acta Arithmetica).
<https://www.impan.pl/pl/wydawnictwa/czasopisma-i-serie-wydawnicze/acta-arithmetica/all/174/3/91625/average-r-rank-artin-conjecture>
- Some remarks on unfair permutations (joint work with Umit Işlak and İlker Arslan, in preparation).
- On a generalization of uniformly random permutations (joint work with Umit Işlak and İlker Arslan, in preparation).
- Densities related to subgroups of \mathbb{Q}^* (joint work with Francesco Pappalardi, in preparation).

Grants and Awards

- Antalya Mathematical Olympiad: Third Place, 1998.
- CIMPA-ICTP: Travel Grant, 2013.
- Università degli Studi Roma Tre: Ph.D Grant, 2012-2015.
- TÜBİTAK postdoctoral fellowship: December 2015- December 2016.

Teaching Experience

- **Istanbul Kemerburgaz University** Istanbul, Turkey
Summer School 2015
– Calculus 1, Calculus 2
- **Nesin Math Village** Izmir, Turkey
Summer School Aug. 2014
– Introduction to Analytic Number Theory
- **Nesin Math Village** Izmir, Turkey
Summer School Aug. 2013
– Algebraic Number Theory, Artin's Conjecture
- **Boğaziçi University, Department of Mathematics** Istanbul, Turkey
Teaching Assistant 2010,2011
– Calculus, Complex Analysis, Introduction to Mathematical Structures
- **Bahçeşehir University, Department of Mathematics** Istanbul, Turkey
Teaching Assistant 2009
– Calculus, Linear Algebra

Workshops and Schools

- **ECC** Izmir, Turkey
Summer School- Computational Algebraic Number Theory 01 Sept. -04 Sept. 2016
- **CIMPA-ICTP** Manila, Philippines
Research School-Algebraic Curves Over Finite Fields 22 July-02 Aug. 2013
 - Elliptic Curves Modulo Primes, Elliptic Curves Over Finite Fields, Zeta Series and Applications, Explicit Construction of Elliptic Curves, Finite Fields
- **Nesin Math Village** Izmir, Turkey
Winter School 1-11 Feb. 2011
 - Sieve Methods, Introduction to Modular Forms, Introduction to Analytic Number Theory, Algebra for Number Theory
- **Nesin Math Village** Izmir, Turkey
Winter School 22-31 Jan. 2011
 - Commutative Algebra
- **Feza Gursey Institute** Istanbul, Turkey
Workshop Dec. 2011
 - Analytic Number Theory
- **Nesin Math Village** Istanbul, Turkey
Summer School Aug.-Sep. 2010
 - Fourier Analysis, Ergodic Theory, Iwasawa Theory, Between Set Theory and Linear Algebra

Talks

- **Università Roma Tre**
Seminar October 2013
 - Average Order of Carmichael's Lambda Function
- **Università Roma Tre**
Seminar March 2013
 - Dirichlet's Class Number Formula
- **Università Roma Tre**
Seminar Nov 2012
 - Average Multiplicative Order of an Integer
- **Università Roma Tre**
Seminar May 2012
 - Artin's Primitive Root Conjecture

Miscellaneous

Computer Skills: C, MATLAB, PARI, SAGE, L^AT_EX.

Languages: Turkish (Native), English (Fluent), Italian (Basic).

Other Interests: Photography.

References

- **Prof. Dr. Francesco Pappalardi**
Università Roma Tre
pappa@mat.uniroma3.it
+39 6 57338243
- **Assist. Prof. Özlem Beyarslan**
Boğaziçi University
ozlem.beyarslan@boun.edu.tr
+90 212 359 6535
- **Prof. Dr. Alövsat Müslümov**
ADA University
amuslimov@ada.edu.az
+994 50 250 5627
- **Assist. Prof. Ümit Işlak**
Georgia Institute of Technology
uislak6@math.gatech.edu
+1 213-841-2009
- **Assist. Prof. Ayhan Dil**
Akdeniz University
adil@akdeniz.edu.tr
+90 242 3102380