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RESEARCH INTERESTS:

Topics related to **Analytic Number Theory**, such as:

- prime numbers
- multiplicative number theory
- additive number theory
- the Riemann zeta-function
- character and exponential sums
- sequences
- lattice points
- cryptography

Publications

- Cobeli Cristian, Laurențiu Panaitopol, Vâjâitu Marian, Zaharescu Alexandru, **Some asymptotic formulas involving primes in arithmetic progressions.** *Comentarii Mathematici Universitatis Sancti Pauli* **43** (2004), no. 1, 23--35.
- Boca Florin P., Cobeli Cristian, Zaharescu Alexandru, **On the distribution of the Farey sequence with odd denominators.** *Michigan Math. J.* **51** (2003), no. 3, 557--573.
- Cobeli Cristian, Ford Kevin, Zaharescu Alexandru, **The jumping champions of the Farey series.** *Acta Arith.* **110** (2003), no. 3, 259--274.
- Cobeli Cristian, Zaharescu Alexandru, **The Haros-Farey sequence at two hundred years.** *Acta Univ. Apulensis Math. Inform.* No. 5 (2003), 1--38.
- Cobeli Cristian, Gonek Steve, Zaharescu Alexandru, **The distribution of patterns of inverses modulo a prime.** *J. Number Theory* **101** (2003), no. 2, 209--222.
- Cobeli Cristian, Iordache Adrian, Zaharescu Alexandru, **The relative size of consecutive odd denominators in Farey series.** *Integers* 3 (2003), A7, 14 pp. (electronic).
- Cobeli Cristian, Vâjâitu Marian, Zaharescu Alexandru, **Distribution of gaps between the inverses mod q .** *Proc. Edinb. Math. Soc. (2)* **46** (2003), no. 1, 185--203.

- Cobeli Cristian, Zaharescu Alexandru, **A question on the distribution of points on a curve over a finite field.** *Acta Univ. Apulensis Math. Inform.* No. 4 (2002), 65--76.
- Cobeli Cristian, Vâjâitu Marian, Zaharescu Alexandru, **A class of algebraic-exponential congruences modulo Sp .** *Acta Math. Univ. Comenian. (N.S.)* **71** (2002), no. 1, 113--117.
- Cobeli Cristian, Vâjâitu Marian, Zaharescu Alexandru, **On the set $Sax+bg \pmod{p}$.** *Port. Math. (N.S.)* **59** (2002), no. 2, 195--203.
- Cobeli Cristian, Groza G., Vâjâitu Marian, Zaharescu Alexandru, **Generalization of a theorem of Steinhaus.** *Colloq. Math.* **92** (2002), no. 2, 257--266.
- Cobeli Cristian, Zaharescu Alexandru, **On the distribution of the $SF \pmod{p}$ -points on an affine curve in Sr dimensions.** *Acta Arith.* **99** (2001), no. 4, 321--329.
- Boca Florin P., Cobeli Cristian, Zaharescu Alexandru, **A conjecture of R. R. Hall on Farey points.** *J. Reine Angew. Math.* **535** (2001), 207--236.
- Augustin Volker, Boca Florin P., Cobeli Cristian, Zaharescu Alexandru, **The Sh -spacing distribution between Farey points.** *Math. Proc. Cambridge Philos. Soc.* **131** (2001), no. 1, 23--38.
- Cobeli Cristian, Zaharescu Alexandru, **Generalization of a problem of Lehmer.** *Manuscripta Math.* **104** (2001), no. 3, 301--307.
- Cobeli Cristian, Gonek Steve, Zaharescu Alexandru, **On the distribution of small powers of a primitive root.** *J. Number Theory* **88** (2001), no. 1, 49--58.
- Cobeli Cristian, Vâjâitu Marian, Zaharescu Alexandru, **Equidistribution of rational functions of primes mod Sq .** *J. Ramanujan Math. Soc.* **16** (2001), no. 1, 63--73.
- Cobeli Cristian, Zaharescu Alexandru, **Distribution of a sparse set of fractions modulo Sq .** *Bull. London Math. Soc.* **33** (2001), no. 2, 138--148.
- Cobeli Cristian, Zaharescu Alexandru, **The order of inverses mod Sq .** *Mathematika* **47** (2000), no. 1-2, 87--108 (2002).
- Cobeli Cristian, Vâjâitu Marian, Zaharescu Alexandru, **Average estimates for the number of tuples of inverses \pmod{p} in short intervals.** *Bull. Math. Soc. Sci. Math. Roumanie (N.S.)* **43(91)** (2000), no. 2, 155--164.
- Boca Florin P., Cobeli Cristian, Zaharescu Alexandru, **Distribution of lattice points visible from the origin.** *Comm. Math. Phys.* **213** (2000), no. 2, 433--470.
- Cobeli Cristian, Crânc smaru Marcel, Zaharescu Alexandru, **A cellular automaton on a torus.** *Portugal. Math.* **57** (2000), no. 3, 311--323.
- Cobeli Cristian, Vâjâitu Marian, Zaharescu Alexandru, **The sequence $S_n \pmod{p}$.** *J. Ramanujan Math. Soc.* **15** (2000), no. 2, 135--154.
- Cobeli Cristian, Zaharescu Alexandru, **An exponential congruence with solutions in primitive roots.** *Rev. Roumaine Math. Pures Appl.* **44** (1999), no. 1, 15--22.
- Cobeli Cristian, Zaharescu Alexandru, **On the distribution of primitive roots mod Sp .** *Acta Arith.* **83** (1998), no. 2, 143--153.
- Cobeli Cristian, Vâjâitu Marian, Zaharescu Alexandru, **Graham's conjecture under Riemann hypothesis.** *J. Number Theory* **31** (1989), no. 1, 80--87.