




PERSONAL INFORMATION

Alexandru A. Popa

-  Institute of mathematics "Simion Stoilow" of the Romanian Academy
Calea Grivitei 21, Bucharest, Romania
-  aapopa@gmail.com
-  <http://imar.ro/~apopa/>

Date of birth 15/06/1975 | Nationality Romanian

WORK EXPERIENCE

- 2008-present **Institute of Mathematics "Simion Stoilow" of the Romanian Academy**
Currently Research Scientist I
- 2008-2009 **College of the Holy Cross**
Visiting Assistant Professor
- 2006-2008 **University of Pennsylvania**
Lecturer
- 2003-2006 **Princeton University**
Lecturer

EDUCATION

- 1998-2003 **Harvard University, Ph.D. in mathematics**
Thesis: Central values of L-series over real quadratic fields
Advisor: B. H. Gross
- 1994-1998 **Princeton University, B.A. Summa cum Laude in Mathematics**

RESEARCH INTERESTS

Number Theory: modular forms, automorphic representations

GRANTS

DIRECTOR:

- Proiect de cercetare exploratorie PN-III-P4-ID-PCE-2020-2498 financed by the Romanian Council of Scientific Research and UEFISCDI at IMAR, 2021–2023
- Marie Curie International Reintegration grant financed by the European Comision at IMAR, October 2009–September 2013

MEMBER:

- PCE grant financed by CNSCSIS at IMAR, October 2017–December 2019 (director Sebastian Burciu)
- Young researcher team grant financed by CNSCSIS at IMAR, November 2015–October 2017 (director Vicențiu Pașol)
- Young researcher team grant financed by CNSCSIS at IMAR, October 2011–October 2014 (director Ionel Popescu)

AWARDS

- "Gheorghe Lazar" award of the Romanian Academy, December 2016
- "Nicolae Dinculeanu" award of the Romanian Academy, presented at the Eighth Congress of the Romanian Mathematicians, Iași, June 2015
- Good Teaching Award for MAT 350, University of Pennsylvania, Fall 2007
- Teaching Award for excellence in teaching at Harvard University, Spring 2000
- George B. Covington Prize for overall undergraduate achievement in mathematics, Princeton University, 1998
- Member of Phi Beta Kappa academic honor society, 1998
- Andrew H. Brown Prize for junior independent work, Princeton University, 1997

RESEARCH VISITS

- Max Planck Institute for mathematics, Bonn, February 22–March 7, 2016
- Institut des Hautes Études Scientifique, Bur-sur-Yvette, October 13–November 13, 2014
- Max Planck Institute for mathematics, Bonn, January 21–February 20, 2014
- Max Planck Institute for mathematics, Bonn, February 1–March 15, 2013
- Alfréd Rényi Institute of Mathematics, Budapest, October 29–November 4, 2012
- International Centre for Theoretical Physics Trieste, June 18–29, 2012: School and Workshop on Computational Algebra and Number Theory,
- Max Planck Institute for mathematics, Bonn, February 11–29, 2012
- Max Planck Institute for mathematics, Bonn, April 10–May 10, 2010
- Max Planck Institute for mathematics, Bonn, July 6–August 6, 2008

RECENT CONFERENCE TALKS

- Automorphic forms conference, Budapest, Hungary, 5-9 September 2022
- Conferinta Cercetarii Stiintifice din Academia Romana, online, 23.11.2021
- Online conference on Automorphic forms, zoom, June 1-5, 2020
- 9th Congress of Romanian Mathematicians, Galati, June 29–July 3, 2019
- Transient Transcendence in Transylvania, Brasov, May 13-17, 2019
- Fifth Bucharest Number Theory Day, IMAR, July 2017
- Workshop for Young Researchers in Mathematics, 7th edition, IMAR, May 2017
- Conference on Geometric and combinatorial methods in number theory, June 2016, Iași
- Workshop for Young Researchers in Mathematics, May 2016, Constanta
- The 8th Congress of Romanian Mathematicians, June 2015, Iași
- Automorphic L-functions workshop, October 2014, University Lille 1

PUBLICATIONS

1. *Central values of Rankin L-series over real quadratic fields*. Compositio Math. 142 (2006), 811–866.
2. *Whittaker newforms for archimedean representations of $GL(2)$* . J. of Number Theory 128/6 (2008), 1637–1645.
3. *Rational decomposition of modular forms*. Ramanujan J. 26/3 (2011), 419–435.
4. (with V. Paşol) *Modular forms and period polynomials*. Proc. London Math. Soc. 107/4 (2013), 713–743.
5. (with F.P. Boca, V. Paşol, A. Zaharescu) *Pair correlation of angles between reciprocal geodesics on the modular surface*. Algebra and Number Theory 8-4 (2014), 999–1035.
6. (with F.P. Boca, A. Zaharescu) *Pair correlation of hyperbolic lattice angles*. Int. J. Number Theory 10/8 (2014), 1955–1989.
7. (with V. Paşol) *On the Petersson scalar product of arbitrary modular forms*. Proc. Amer. Math. Soc. 142 (2014), 753–760.
8. (with V. Paşol) *An algebraic property of Hecke operators and two indefinite theta series*. Forum Math. 27/2 (2015), 915–928.
9. (with D. Zagier) *A combinatorial refinement of the Kronecker-Hurwitz class number relation*. Proc. Amer. Math. Soc. 145/3 (2017), 1003–1008.
10. *On the trace formula for Hecke operators on congruence subgroups*. Proc. Amer. Math. Soc. 146/7 (2018), 2749–2764.
11. *On the trace formula for Hecke operators on congruence subgroups, II*. Research in the Math. Sciences (2018), 5:3.
12. (with R. Gaba) *A generalization of Ramanujan's congruence to modular forms of prime level*. J. of Number Theory 193 (2018), 48-73
13. (with D. Zagier) *An elementary proof of the Eichler-Selberg trace formula*. J. Reine Angew. Math. 762 (2020), 105-122
14. (with A. Diaconu, V. Paşol) *Quadratic Weyl group multiple Dirichlet series of Type $D_4^{(t)}$* . Amer. J. Math., to appear

Name: Alexandru A, Popa

Signature