Boris A. Datskovsky
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Curriculum Vitae

Personal Information:

Born 11/6/1960 in Moscow, U.S.S.R. Naturalized U.S. citizen.

Education:

Graduate: Harvard University, Department of Mathematics,
M.A. 6/81, Ph.D. 6/84.
Undergraduate: Columbia College, major in mathematics,
B.A. Summa Cum Laude 5/80.

Grants and Honors:

Visiting Position, Sonderforschungsbereich-170, Mathematisches Institut, Göttingen, Germany, July-August 1995

Fulbright Research Fellowship, Israel, 1993-94

Visiting Position, Sonderforschungsbereich-170, Mathematisches Institut, Göttingen, Germany, 1992-93

NSF Research Grant # DMS-8907432, 1989-91.

NSF Postdoctoral Fellowship in Mathematical Sciences, Grant # DMS-8605740, 1986-88.

Named Joseph L. Walsh Fellow, Harvard University, 1981-82.

Member Phi Betta Kappa.

Honourable mention (ranked 25th) in W.L. Putnam Mathematical Competition, 1979.

Recepient of Van Doren and Van Amringe mathematics prizes, Columbia University, 1976-80.

Professional Society Membership

Member of the American Mathematical Society.

Fields of Interest:

My main fields of interest are algebraic and analytic number theory. Related interests include combinatorics, modern algebra and algebraic geometry.

Academic Experience:

1994-Present: Professor, Department of Mathematics,
Temple University.
1990-1994: Associate Professor, Department of Mathematics,
Temple University
1988-1990: Assistant Professor, Department of Mathematics,
Temple University.
1986-1988: NSF Postdoctoral Fellow in Mathematical Sciences.
In residence at Harvard University.
1984-1986: Assistant Professor, Department of Mathematics,
Tufts University.

Service to the Department

Director of Advising and Coordinated Courses, 7/2016-Present
Associate Chair, 1/2013-6/2016
Director of Undergraduate Studies, 7/1998-1/2013
Graduate Chair, Department of Mathematics, 7/1996 - 7/1998
Assistant Chair, Department of Mathematics, 7/1995-7/1996.
Personnel Committee, Department of Mathematics, 7/2004-7/2006
Merit Committee, Department of Mathematics, 7/2004-7/2006
Current member of the following departmental committees:
Undergraduate Committee
Executive Committee (ex officio)

Service to the University

Educational Policies and Procedures Committee 11/2016-Present
College of Science and Technology Dean's Advisory Committee, 7/2016-Present
College of Science and Technology Undergraduate Committee, 9/01-6/2016, 9/2017-Present.
Graduate Board, Appeals Committee, 7/2007-2/2010
Honors Oversight Committee, 7/2006-7/2008
Quantitative Literacy Committee, Spring-Summer 2005.
Graduate Board, Program Review Committee, 9/1996-5/1999.

Thesis Supervision

Charles Osborne, Some Aspects of the Theory of Zeta Functions associated with the Space of Binary Cubic Forms, Ph.D. May 2010

Behailu Mammo, A Mean Value Theorem for Discriminants of Abelian Extensions of a Number Field, Ph.D., May 2005

Ibrahim Al Rasisi, A Mean Value Theorem for Class Numbers of Quadratic Extensions of Function Fields, Ph.D. thesis, August 2001.

Anna Godfrey, Elliptic Curve Cryptography, Master's Thesis, August 2007.

Gabriel Soloff, Prime generating Polynomials, Master's Thesis, August 2002.

Pallavi Pathak, Sublime Numbers, Master's thesis, May 2001.

Iyad Almreif, Galois Theory Related to Unsolvability by Radicals and Finite Abelian Groups, Master's Thesis, May 1998.

Dissertation Committee Service

Austin Daughton, Ph. D. 2012
Henok Mawi, Ph.D. 2010
Worku Bitew, Ph.D. 2008
Xiuhong Du, Ph. D. 2008
Linhong Wang, Ph.D. 2008
Jose Gimenez, Ph.D. 2007
David J. Desario, Ph.D. 2007
Tadele Mengesha, Ph.D. 2007
Wissam Raji, Ph. D. 2006
Melanie Butler, Ph.D. 2004
Mohammed Tesemma, Ph. D. 2004
Omer Yayenie, Ph.D. 2003
Jawahar Pathak, Ph. D. 2003
Marc Renault Ph.D. 2002
Kurt Ludwick, Ph.D. 2001
Yan Lyansky, Ph.D. 2001
Matthias Beck, Ph.D. 2000
Anne Edlin, Ph.D. 2000
Akalu Tefera, Ph.D. 2000
Paul Pasles, Ph.D. 1997

Visiting Positions

Technion, Israel Institute of Technology, Haifa, Israel, 1993-1994.

Sonderforschungsbereich 170, "Geometrie und Analysis," Goettingen, Germany 1992-1993.

Publications:

1. On zeta functions associated with the space of binary cubic forms with coefficients in a function field, Ph.D. thesis, Harvard University, 1984.

2. (with D. J. Wright) The adelic zeta function associated with the space of binary cubic forms, II: Local theory, J. Reine Angew. Math. 367 (1986), 27-75.

3. The adelic zeta function associated with the space of binary cubic forms with coefficients in a function field, Trans. Amer. Math. Soc. 299 (1987), 719-745.

4. (with D. J. Wright) Density of discriminants of cubic extensions, J. Reine Angew. Math. 386 (1988), 116-138.

5. (with E. Stitzinger) Cohomological criterion for extending derivations, J. of Algebra 119 (1988), 298-307.

6. A mean-value theorem for class numbers of quadratic extensions, Contemporary Mathematics, v.143 (1993), 179-242.

7. (with P. Guerzhoy) On Ramanujan congruences for modular forms of integral and half-integral weights, Proc. of AMS 124 (1996), 2283-2291.

8. On Dirichlet series whose coefficients are class numbers of binary quadratic forms, Nagoya Math. J. 142 (1996), 95-132.

9. (with P. Bateman and M. Knopp), Sums of squares and the preservation of modularity under congruence restrictions, in Symbolic Computation, Number Theory, Special Functions, Physics and Combinatorics, 59-71, Kluwer Academic Publishers, 2001.

10. On the number of monochromatic Schur triples, Adv. in Appl. Math. 31 (2003), 193-198.

11. (with P. Guerzhoy) Searching for Kummer congruences in an infinite slope family, Math. Comp. 73 (2004), 861-868.

12. (with Behailu Mammo) A mean value theorem for discriminants of abelian extensions of a number field, J. of Number Theory 127 (2007), 301-325.

13. (with P. Guerzhoy) p-Adic interpolation of Taylor coefficients of modular forms, Math. Ann. 340 (2008), no. 2, 465-476.