

# CURRICULUM VITAE

## Personal details

Name: Sergey Rybakov  
Date of birth: May 23, 1982  
Place of birth: Moscow  
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## Education

1995-1999 Moscow State school N 57.

1999-2004 Undergraduate student of Moscow State University and Independent University of Moscow.

2004-2008 Graduate student of Moscow State University and Independent University of Moscow.

2008 Ph.D. Moscow State University

**Thesis title:** Zeta-functions of algebraic surfaces and curves of genus 3 over finite fields.

**Advisor:** Michael A. Tsfasman.

**Current positions:** 2010 Researcher, Poncelet laboratory (UMI 2615 of CNRS and Independent University of Moscow).

2007 Researcher, Institute for information transmission problems of the Russian Academy of Sciences.

**Interests:** Algebraic geometry, abelian varieties over finite fields, de Rham cohomology, p-adic cohomology.

## Published papers:

- (1) Zeta-functions of conic bundles and del Pezzo surfaces of degree 4 over finite fields. Russian Mathematical Surveys, Volume 60 (2005), 5, 986-987.
- (2) Zeta-functions of conic bundles and del Pezzo surfaces of degree 4 over finite fields. Moscow Math. Journal volume 5:4, 2005, 919 - 926.
- (3) Zeta-functions of bielliptic surfaces over finite fields. (in Russian) Russian Mathematical Notes 2, 2008, 278 - 290.
- (4) The groups of points on abelian varieties over finite fields. Cent. Eur. J. Math. 8(2), 2010, 282-288. arXiv:0903.0106v4
- (5) Finite group subschemes of abelian varieties over finite fields. arXiv:1006.5959
- (6) The groups of points on abelian surfaces over finite fields. arXiv:1007.0115

## Awards

2010 Moscow Mathematical Society Award for the work on groups of points on abelian varieties over finite fields.

## Visits

January 2004: ENS, Paris, France.

November 2007: IML, Marseille, France.

## Participation in schools and conferences, talks:

- (1) Arithmetique, geometrie et theorie des codes. C.I.R.M. Marseilee, France. May 19 - may 23, 2003.
- (2) Gauss-Dirichlet Conference, Gottingen, Georg-August-Universitat, June 20-24, 2005.
- (3) Summer School "Algebraic groups", Gottingen, Georg-August-Universitat, June 27 - July 15, 2005. Talk: Surfaces over non-algebraically closed fields.
- (4) Arithmetique, geometrie et theorie des codes. Marseilee, C.I.R.M., September 26 - September 30, 2005. Talk: On zeta functions of Kummer surfaces over finite fields.
- (5) Advanced School and Conference on Representation theory and Related Topics, International Center for Theoretical Physics (ICTP, Trieste, Italy), January 9-27, 2006.
- (6) GAEL XIV at Bedlewo, Poland, 06.03.2006- 10.03.2006.
- (7) Spring School "Abelian Varieties", Utrecht, Netherlands, May 2 - May 24, 2006.

- (8) Summer School Arithmetic Geometry, Mathematisches Institut Georg-August-Universität Göttingen, Germany, July 17 - August 11, 2006. Talk: Drinfeld modules.
- (9) NATO Advanced Study Institute on Higher-Dimensional Geometry over Finite Fields, Göttingen, Germany, June 25 - July 6, 2007.
- (10) Arithmetic, Geometry, Cryptography and Coding Theory. C.I.R.M. Marseille, France. November 5 - 9th, 2007.
- (11) Summer School on p-adic Cohomology, Department of Mathematics, University of Mainz, Germany, September 29 – Oktober 02, 2008.
- (12) Russian-Japanese school on representation theory. Kyoto University. January 13 – February 1, 2009. Talk: abelian varieties over finite fields.
- (13) Arithmetic, geometry, cryptography and coding theory. C.I.R.M. Marseille, France. March 30th - April 3th, 2009. Talk: Groups of points on abelian varieties over finite fields.
- (14) p-Adic Geometry and Homotopy Theory. Loen, Norway, August 2nd-8th, 2009.
- (15) Frobenius lifts. Lorentz Center, Leiden, Netherlands. October 5 – 9, 2009.
- (16) International Algebraic Conference dedicated to the 70th birthday of Anatoly Yakovlev, St. Petersburg, Russia, June 19 - 24, 2010. Talk: The groups of points on abelian surfaces over finite fields.
- (17) Zeta functions. Laboratoire CNRS J.-V. Poncelet and Independent University of Moscow. June 21 - 25, 2010 Talk: The groups of points on abelian surfaces over finite fields.
- (18) Arithmetic Days in Moscow, Steklov Mathematical Institute, Moscow, Russia, June 13-17, 2011. Talk: Constructible modules over de Rham algebra.
- (19) Global Fields, Independent University of Moscow, Russia, October 25-28, 2011 Talk: The groups of points on abelian surfaces over finite fields.