

Curriculum Vitae

Vladyslav Yaskin

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Personal

Citizenship: Ukraine
Visa status: H1B
Languages: English, Russian, Ukrainian

Research interests

- Convex Geometry
- Geometric Functional Analysis
- Geometric Tomography
- Applications of Harmonic Analysis to Convex Geometry

Education

May 2006: Ph.D. in Mathematics, University of Missouri-Columbia, USA
Advisor: Professor Alexander Koldobsky
June 1997: M.S. in Mathematics (Diploma with Honors), Kharkov State University, Ukraine
Advisor: Professor Yu. A. Aminov

Employment

August 2006 - present: Visiting Assistant Professor, Department of Mathematics
University of Oklahoma, Norman OK
May 2007 - August 2007: Postdoctoral Researcher, Lab. of Analysis and Applied Math.
Université de Marne-la-Vallée (Paris-Est), France
August 2001 - May 2006: Teaching Assistant, Department of Mathematics
University of Missouri, Columbia MO
January 2000 - January 2001 Teaching Assistant, Department of Mathematics
Kharkov State University, Ukraine
January 1998 - January 2001 Junior Research Fellow, Department of Mathematics
Kharkov State University, Ukraine

Grants and Awards

2007: European Network PHD, FP6 Marie Curie Actions, RTN, Contract MCRN-511953
2007: MU Distinguished Dissertation Award (University of Missouri-Columbia)
2003: Mathematics Distinguished Teaching Award (Department of Mathematics,
University of Missouri-Columbia)

Publications

• Book

A. Koldobsky, V. Yaskin, *The Interface between Convex Geometry and Harmonic Analysis*, CBMS Regional Conference Series, 108, American Mathematical Society, Providence RI, 2008, 107 pp.

• Papers

- (1) P. Goodey, V. Yaskin, M. Yaskina, *Fourier transforms and the Funk-Hecke theorem in convex geometry*, submitted.
- (2) V. Yaskin, *On strict inclusions in hierarchies of convex bodies*, Proc. Amer. Math. Soc., to appear.
- (3) V. Yaskin, *Modified Shephard's problem on projections of convex bodies*, Israel J. Math., to appear.
- (4) A. Koldobsky, A. Pajor and V. Yaskin, *Inequalities of the Kahane-Khinchin type and sections of L_p -balls*, Studia Math., to appear.
- (5) N. J. Kalton, A. Koldobsky, V. Yaskin and M. Yaskina, *The geometry of L_0* , Canadian J. Math. **59** No. 5 (2007), 1029–1049.
- (6) V. Yaskin, *A solution to the lower dimensional Busemann-Petty problem in the hyperbolic space*, J. Geom. Anal., **16** No. 4 (2006), 735–745.
- (7) V. Yaskin and M. Yaskina, *Centroid bodies and comparison of volumes*, Indiana University Math. J., **55** No. 3 (2006), 1175–1194.
- (8) V. Yaskin, *The Busemann-Petty problem in hyperbolic and spherical spaces*, Advances in Math., **203** (2006), 537–553.
- (9) A. Koldobsky, V. Yaskin and M. Yaskina, *Modified Busemann-Petty problem on sections on convex bodies*, Israel J. Math., **154** (2006), 191–208.
- (10) V. Yaskin, *Totally geodesic submanifolds of surfaces with the revolution group $SO(2) \times SO(2)$* , Kharkov University Vestnik, **475**, (2000), 282–295. (Russian)
- (11) V. Yaskin, *Totally geodesic submanifolds of hypersurfaces of revolution in the Euclidean space*, Mat. Fiz. Anal. Geom., **6** (1999), No 1/2, 182–188. (Russian)

Talks at conferences and seminars

- Third annual conference of the EU network "Phenomena in High Dimensions", Samos (Greece), June 25-29, 2007.
- Analysis seminar, Université de Marne-la-Vallée (France), June 19, 2007.
- Fourth International Workshop on Convex Geometry - Analytic Aspects, Cortona (Italy), June 3-9, 2007.
- Special Analysis Seminar, University of Missouri, Columbia, MO, April 17, 2007.
- AMS Sectional Meeting, Special Session on Fourier Analysis and Convexity, Stevens Institute of Technology, Hoboken, NJ, April 14-15, 2007.
- Joint Mathematics Meetings, AMS Special Session on Radon Transforms, Convex Geometry, and Geometric Analysis, New Orleans, LA, January 5-8, 2007.
- Workshop on Harmonic Analysis and Applications, LSU, Baton Rouge, LA, January 3-4, 2007.

- Probabilistic and Combinatorial Approach in Analysis, CBMS/NSF Regional Research Conference in Mathematical Sciences, Kent State University, Kent OH, August 6-12, 2006.
- Banach spaces and their applications in Analysis, a conference in honor of Nigel Kalton's 60th birthday, Miami University, Oxford OH, May 22-27, 2006.
- 2006 Midwest Geometry Conference, University of Oklahoma, Norman OK, May 5-7, 2006.
- AMS Sectional Meeting, Special Session on Geometry of Banach Spaces and Connections with Other Areas, Miami FL, April 1-2, 2006.
- Colloquium, University of Akron, Akron OH, March 17, 2006.
- Colloquium, Case Western Reserve University, Cleveland OH, February 13, 2006.
- Colloquium, Case Western Reserve University, Cleveland OH, January 27, 2006.
- Colloquium, Kent State University, Kent OH, January 26, 2006.
- Joint Mathematics Meetings, AMS Special Session on Recent Trends in Convex and Discrete Geometry, San Antonio, TX, January 12-15, 2006.
- Conference on Convex Geometry and High Dimensional Phenomena, Vienna (Austria), July 20-27, 2005.
- Analysis seminar, Universidad de Zaragoza, Zaragoza (Spain), June 16, 2005.
- Educational Workshop on Geometric Inequalities, Florence (Italy), May 16-20, 2005.
- Analysis seminar, Kansas State University, Manhattan, KS, February 23, 2005.
- Analysis seminar, University of Missouri-Columbia, October 5, 2004.
- SUMIRFAS, Texas A&M University, College Station, TX, August 6-8, 2004.
- Geometry seminar, Institute for Low Temperature Physics and Engineering, Kharkov (Ukraine), July 7, 2004.
- First Karazin Scientific Readings, Kharkov National University, Kharkov (Ukraine), June 14-16, 2004.
- Geometry and Nonlinearity Seminar, Warsaw University, Warsaw (Poland), November, 2000.
- 3-rd International Conference on Geometry "in the large", Cherkassy (Ukraine), June, 1999.
- Geometry Seminar, Kharkov State University, Kharkov (Ukraine), 1997 - 1999.

Participation in Workshops

- Workshop on Fourier analytic methods in convex geometry, American Institute of Mathematics, Palo Alto, CA, August 20-24, 2007.
- Fourth International Workshop on Convex Geometry - Analytic Aspects, Cortona (Italy), June 3-9, 2007.
- Workshop on Harmonic Analysis and Applications, LSU, Baton Rouge, LA, January 3-4, 2007.
- Probabilistic and Combinatorial Approach in Analysis, CBMS/NSF Regional Research Conference in Mathematical Sciences, Kent State University, Kent OH, August 6-12, 2006.
- The Interplay between Convex Geometry and Harmonic Analysis, CBMS/NSF Regional Research Conference in Mathematical Sciences, Kansas State University, Manhattan KS, July 29 - August 3, 2006.
- Asymptotic Theory of the Geometry of Finite Dimensional Spaces, Erwin Schrödinger Institute, Vienna (Austria), July - August 2005.

- Educational Workshop on Geometric Inequalities, in honor of the 65th birthday of Prof. Rolf Schneider, Firenze (Italy), May 16 - 20, 2005.
- Workshop in linear analysis, Texas A&M University, College Station, July 29 - August 13, 2004.
- MSRI summer school “Global behavior of minimal surfaces”, University of California-Berkeley, June 25 - July 6, 2001.
- Research group “Local and global behavior of surfaces in 4-dimensional Euclidean space”, International Banach Center, Warsaw (Poland), November 13 - 25, 2000.

Teaching experience

- University of Oklahoma:
 - Calculus III (Fall 2007-Spring 2008)
 - Calculus IV (Spring 2007)
 - Introduction to Ordinary Differential Equations (Fall 2006)
 - Linear Algebra I (Fall 2006)
- University of Missouri:
 - Elements of Calculus (WS 2006)
 - Calculus I (WS 2005 - FS 2005)
 - Finite Mathematics (WS 2004 - FS 2004)
 - College Algebra (FS 2003)
 - Calculus II (FS 2001 - WS 2003)
- Kharkov State University:
 - Analytic Geometry (WS 2000 - FS 2000)
 - Foundations of Geometry (FS 2000)
 - Seminar for undergraduates “Knots and Links” (FS 2000)
 - Seminar for undergraduates “Locally Euclidean Geometries” (FS 2000)
 - Seminar for undergraduates “Convex Bodies” (WS 1999 - FS 1999)

Use of technology in classroom

- Mathematica – for Calculus courses
- Graphing calculator TI - 86 – for College Algebra

Professional service

- Referee for International Mathematics Research Notices