

CURRICULUM VITAE

Personal Information

Name: Maria-Isavella (Marisa) Zymonopoulou
Date of Birth: May 3, 1973
Place of Birth: Athens, Greece
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Academic Information

- *May 2008:* PhD degree, “*Sections of complex convex bodies*”, Advisor: Prof. Alexander Koldobsky, Department of Mathematics, University of Missouri, Columbia.
- *May 2004:* MS degree at the Department of Mathematics, University of Crete. MS thesis: “*The Busemann-Petty problem*”. MS thesis advisor: Prof. S.Papadopoulou.
- *2002-2003:* Joined the Graduate program of the Department of Mathematics, University of Missouri.
- *May 2001:* Completion of courses requirements for MS degree at the Department of Mathematics, University of Crete.
- *September 1998:* BS degree in Pure Mathematics at the University of Crete. BS thesis: “*Isoperimetric Inequalities and Concentration of Measure*”. BS thesis advisor: Prof. A.Giannopoulos.

Publications

- *Isomorphic properties of Intersection bodies*, joint work with A. Koldobsky and G. Paouris. To appear in the Journal of Functional Analysis.
- *Positive definite distributions and normed spaces*, Advances in Mathematics **227** (2011), 986-1018. With Nigel J. Kalton.
- *The modified Complex Busemann-Petty problem*. Positivity **13** (2009), 717-733.

- *The Complex Busemann-Petty problem for arbitrary measures.*
Arch.Math. **91** (2008), 436-449.
- *The Complex Busemann-Petty problem on sections of convex bodies.*
Advances in Math. **218** (2008), 352-367. With A.Koldobsky and H.König.
- *Extremal Sections of Complex l_p -balls, $0 < p \leq 2$.*
Studia Mathematica **159** (2003), 185-194. With A.Koldobsky.

Preprints

- *A note on bodies of certain invariance.* In preparation.
- *Remarks on Complex Intersection Bodies,* joint work with G. Paouris and A. Koldobsky. In preparation.

Positions

- Visiting Assistant Professor, Department of Mathematics, University of Crete, Crete, Fall 2010.
- Visiting Fellow, Texas A&M, College Station, Texas, October-November 2009.
- Visiting Assistant Professor, Case Western Reserve University, August 2008-June 2009.
- Early Stage Researcher, European Network PHD, FP6 Marie Curie Actions, Lab. of Analysis and Applied Math. Université de Marne-la-Vallée, France, May-July 2007.

Conferences-Workshops

- Harmonic Analysis in Samos, Karlovasi, Samos, September 2009.
- Complex and Harmonic Analysis, Archanes, Crete, September 2009.
- Workshop on Affine Convex Geometric Analysis, Banff, Canada, January 2009.
- 1042nd AMS Eastern Section Meeting, Middletown, Connecticut, October 2008.
- 4th Annual Conference of the EU network "Phenomena in High Dimensions", Seville, Spain, June 2008.
- 12th Panhellenic Conference in Mathematical Analysis. Athens, Greece, May 2008.
- AIM Workshop: Fourier analytic methods in Convex geometry. Palo Alto, California, August 2007.
- 3rd Annual Conference of the EU network "Phenomena in High Dimensions", Samos, Greece, June 2007.

- Workshop on Convex Geometry-Analytic Methods. Cortona, Italy, June 2003.
- Workshop on Combinatorial and Number-Theoretic Methods in Harmonic Analysis. Erwin Schroedinger Institute, Vienna, Austria, March 2003.
- Workshop on Asymptotic Geometric Analysis. Vancouver, Canada, July 2002.
- Two-day meeting "Complex and Harmonic Analysis". Crete, Greece, May 2002.
- Workshop on Geometric Convex Analysis. Crete, Greece, July 2001.

Talks

- Analysis seminar, Department of Mathematics, University of Crete, March 2010.
- Banach Space seminar, Texas A&M, College Station, Texas, November 2009.
- Complex and Harmonic Analysis, Archanes, Crete, September 2009.
- Colloquium talk, Department of Mathematics, Polytechnic Institute of NYU, March 2009.
- Banach space seminar, Texas A&M, College Station, Texas, January 2009.
- Workshop on Affine Convex Geometric Analysis, Banff, Canada, January 2009.
- Colloquium talk, Department of Mathematics, Univ. of Aegean, Samos, December 2008.
- Series of lectures on "Spherical Harmonics and applications to Convex Geometry", Analysis seminar, CWRU, Fall 2008 and Spring 2009.
- Colloquium talk, Case Western Reserve University, October 2008.
- 1042nd AMS Eastern Section Meeting, Middletown, Connecticut, October 2008.
- 4th Annual Conference of the EU network "Phenomena in High Dimensions", Seville, Spain, June 2008.
- 12th Panhellenic Conference in Mathematical Analysis. Athens, Greece, May 2008.
- NSF-FRG Seminar on Fourier analytic and Probabilistic methods in Convexity. Columbia, Univ. of Missouri, Fall 2007.
- Graduate Seminar. Columbia, Univ. of Missouri, Winter 2003.
- Two-day meeting "Complex and Harmonic Analysis". Crete, Greece, May 2002 .
- Analysis Seminar. Columbia, Univ. of Missouri, Winter 2002.

Teaching experience

- Calculus for Science and Engineering III, Case Western Reserve University.
- Calculus I, Calculus II. Columbia, University of Missouri.
- Analysis I, Calculus I, Calculus III, Foundations of Mathematics. University of Crete.