

# Curriculum Vitae

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## Address

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## Personal data

Date of birth: January 26, 1973  
Place of birth: Athens, Greece  
Citizenship: Greek  
Military Service: March 2004-March 2005

## Research interests

Convex Geometry.  
Concentration of measure.  
Functional Analysis: local theory of Banach spaces.

## Education

2004, January : Ph.D. in Mathematics, University of Crete, Greece.  
1999, November: M.Sc. in Mathematics, University of Crete, Greece.  
1998, December: B.Sc. in Mathematics, University of Athens, Greece.

## Professional appointments

September 2007 - Present: Assistant Professor of Mathematics/Courant Instructor,  
Courant Institute of Mathematical Sciences, New York, U.S.A.

December 2005 - August 2007: Intra-European Marie-Curie Fellowship, Université de Marne-la-Vallée, Paris, France.

September 2005 - November 2005: Postdoctoral researcher, University of Athens, Athens, Greece.

March 2005 - September 2005: Postdoctoral researcher, Université de Marne-la-Vallée, Paris, France.

### Ph.D. Thesis

*Inequalities for the Volume of Sections and Projections of Convex Bodies.*

January 2004, Department of Mathematics, University of Crete, Greece.

Thesis advisor: A. Giannopoulos.

### M.Sc. Thesis

*The hyperplane conjecture for convex bodies.*

May 1999, Department of Mathematics, University of Crete, Greece.

Thesis advisor: A. Giannopoulos.

### Publications

1. *On the isotropic constant of non-symmetric convex bodies*, Geometric Aspects of Functional Analysis (Milman-Schechtman eds.), Lecture Notes in Mathematics **1745**, Springer, Berlin (2000), 238–243.
2. *On a local version of the Aleksandrov-Fenchel inequality for the quermassintegrals of a convex body*, with A. Giannopoulos and M. Hartzoulaki, Proc. Amer. Math. Soc. **130** (2002), 2403–2412.
3.  *$\Psi_2$ -estimates for linear functionals on zonoids*, Geometric Aspects of Functional Analysis (Milman-Schechtman eds.), Lecture Notes in Mathematics **1807**, Springer, Berlin (2003), 211–222.
4. *Quermassintegrals of a random polytope in a convex body*, with M. Hartzoulaki, Arch. Math. **80** (2003), 430–438.
5. *On the  $\psi_2$ -behavior of linear functionals on isotropic convex bodies*, Studia Math. **168** (2005), 285–299.
6. *Concentration of mass and central limit properties of isotropic convex bodies*, Proc. Amer. Math. Soc. **133** (2005), 565–575.
7. *Concentration of mass on the Schatten classes*, with O. Guédon, Ann. I. H. Poincaré - PR **43** (2007), 87–99.
8. *Concentration of mass on isotropic convex bodies*, Comptes Rendus Mathématique, **342** (2006), 179–182.
9. *Concentration of mass in convex bodies*, Geometric and Functional Analysis **16** (2006) 1021–1049.
10. *A note on subgaussian estimates for linear functionals on convex bodies*, with A. Giannopoulos and A. Pajor, Proc. Amer. Math. Soc. **135** (2007), 2599–2606.

11. *A stability result for mean width of  $L_p$ -centroid bodies*, with B. Fleury and O. Guédon, *Advances in Mathematics* **214** (2007) 865–877.
12. *High dimensional random sections of isotropic convex bodies*, with D. Alonso-Gutierrez, J. Bastero and J. Bernués (submitted).
13. *On the behaviour of the negative moments of the Euclidean norm on convex bodies* (in preparation).

### Teaching experience

1997-2003: Teaching Assistant at the Department of Mathematics of the University of Crete (11 semesters). Taught exercises for the following courses: Calculus, Introduction to Analysis, Linear Algebra.

2007-08: Calculus (Fall 2007) and Combinatorics (Spring 2008), New York University.

### Conferences

1. International Colloquium on Convexity, Kefermarkt, Austria, April 1999.
2. Workshop on Convex Geometric Analysis, Tel Aviv University, Tel Aviv, Israel, March 2000.
3. Two days of talks in Analysis (talk), Iraklion, Crete, June 2000.
4. Workshop on Convex Geometric Analysis, Anogia, Crete, Greece, August 2001.
5. Two days of talks in Analysis for young researchers (talk), Archanes, Crete, Greece, September 2001.
6. Third International Workshop on Convex Geometry-Analytic Aspects (talk), Cortona, Italy, June 2003.
7. Two days of talks in Functional Analysis (talk), Heraklion, Crete, Greece, June 2003.
8. 10<sup>th</sup> Panhellenic Analysis Conference (talk), Athens, Greece, October 2004.
9. Probabilistic Methods in High Dimension Phenomena, Université Paul Sabatier, Toulouse, France, January 2005.
10. Educational Workshop on Geometric Inequalities, Università degli Studi di Firenze, Italy, May 2005.
11. Phenomena in High Dimensions: first annual conference (talk), TU Vienna, Austria, July 2005.
12. Phenomena in High Dimensions: in analysis, combinatorics, convexity, probability and mathematical physics (talk), Centre Emile Borel at IHP, Paris, France, April - June 2006.
13. Phenomena in High Dimensions: second annual conference (plenary talk), Centre Emile Borel at IHP, Paris, France, June 2006.
14. Probabilistic and Combinatorial methods in Analysis (talk), Kent State University, Ohio State, USA, August 2006.

15. Convexity and Probability (talk), Freudenstadt, Germany, September 2006.
16. Convex Geometry (plenary talk), Oberwolfach, Germany, December 2006.
17. Affine invariants, randomness and approximation in convex geometry (talk), AMS Meeting, Stevens Institute of Technology, Hoboken, NJ, USA, April 2007.
18. Convex Geometry - Analytic aspects (plenary talk), Cortona, Italy, June 2007.
19. Phenomena in High Dimensions: third annual conference, Samos, Greece, June 2007.
20. Fourier analytic methods in convex geometry, American Institute of Mathematics, Palo Alto, California, U.S.A., August 2007.
21. Tools in high dimensional phenomena (plenary talk), Jaca, Spain, September 2007.
22. Algorithmic Convex Geometry (talk), American Institute of Mathematics, Palo Alto, California, U.S.A., November 2007.

### **Short visits, Scholarships and Fellowships**

1. 1999, April: Erwin Schrödinger Institute for Mathematical Physics, Vienna, Austria.
2. 2001, April - July: Institute of Mathematics of the Polish Academy of Sciences (Marie Curie Training Site).
3. 2002-03: Manassaki scholarship, Department of Mathematics, University of Crete.
4. 2003, September-December: Université Paris VI (Research Training Network "Analysis and Operators", predoctoral grant.
5. 2005, March-September: Université de Marne-la-Vallée (Research Training Network "Phenomena in High Dimensions", postdoctoral grant.
6. 2005, September-November: University of Athens, postdoctoral grant "Pythagoras".
7. December 2005 - August 2007 : Université de Marne-la-Vallée, Intra-European Marie-Curie Fellowship.
8. 2006, September: Universidad de Zaragoza, Zaragoza, Spain.
9. 2007, April: University of Columbia Missouri, Missouri State, USA.
10. 2007, April: University of Kent, Ohio, USA.

### **Invited Talks**

1. Institute of Mathematics, Polish Academy of Sciences (Functional Analysis Seminar), Warsaw, Poland, May 2001.
2. University of Łódź, Łódź, Poland, June 2001.

3. Université de Marne-la-Vallée, Paris, France, October and December 2003, April and June 2005, January and December 2006, January 2007.
4. Université Paris VI (Séminaire d'Analyse Fonctionnelle), Paris, France, November 2003.
5. Aristotle University of Thessaloniki, Department of Mathematics, Thessaloniki, Greece, November 2004.
6. University of Crete (Analysis Seminar), Crete, Greece, November 2005.
7. Universidad de Zaragoza (Analysis Seminar), Zaragoza, Spain, September 2006.
8. Polytechnic University of New York, Brooklyn, NY, U.S.A., October 2007.
9. Case Western Reserve University, Cleveland, Ohio, U.S.A., November 2007.
10. University of Alberta, Edmonton, Alberta, Canada, February 2008.
11. Texas AM, College Station, Texas, U.S.A., February 2008.