

Curriculum Vitae

Nikolaos Dafnis

Department of Mathematics, University of the Aegean.

Samos, Greece.

Personal Data

Family Status: Married +2.

Spoken Languages: Greek, English, French.

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Education

2010. PhD in Mathematics. University of Athens.
Probabilistic methods in Asymptotic Geometric Analysis.
THESIS ADVISOR: Professor A. Giannopoulos.
2003. MSc in Mathematics. University of Crete.
Majorizing measures for sub-Gaussian Processes .
THESIS ADVISOR: Professor A. Giannopoulos.
2000. BSc in Mathematics. University of Crete.
The Komlós conjecture.
THESIS ADVISOR: Professor A. Giannopoulos.

Research Interests

- Asymptotic Geometric Analysis
- Probabilistic Methods in Analysis and Geometry
- Convex Geometry
- Stochastic Geometry

Publications

1. **Remarks on the relation of log-concave and contoured distributions in \mathbb{R}^n** (with A. Tsolomitis).
Journal of Geometric Analysis **34** (2024), no.6, Paper No. 188, 16 pp.
2. **Random polytopes generated by contoured distributions.**
Journal of Mathematical Analysis and Applications **537** (2024), no.2, Paper no. 128430, 24 pp.
3. **An inequality for moments of log-concave functions on Gaussian random vectors** (with G. Paouris).
Geometric Aspects of Functional Analysis, 107-122. Lecture Notes in Mathematics, 2169 Springer, Cham, 2017
4. **Improved Hölder and reverse Hölder inequalities for correlated Gaussian random vectors** (with W-K Chen and G. Paouris).
Advances in Mathematics **280** (2015) 643-689.
5. **On mean outer radii of random polytopes** (with D. Alonso-Gutierrez, M. A. Hernandez Cifre and J. Prochno).
Indiana University Mathematics Journal **63** (2014), 579-595.
6. **Quermassintegrals and asymptotic shape of random polytopes in an isotropic convex body** (with A. Giannopoulos, A. Tsolomitis).
Michigan Mathematical Journal **62** (2013), 59-79.
7. **Estimates for the affine and dual affine quermassintegrals of convex bodies** (with G. Paouris).
Illinois Journal of Mathematics **56** (2012), 1005-1021.
8. **Small ball probability estimates, Ψ_2 -behavior and the hyperplane conjecture** (with G. Paouris).
Journal of Functional Analysis **258** (2010), 1933-1964.
9. **Asymptotic shape of a random polytope in a convex body** (with A. Giannopoulos and A. Tsolomitis).
Journal of Functional Analysis **257** (2009), 2820-2839.
10. **On the isotropic constant of random polytopes** (with A. Giannopoulos and O. Guédon).
Advances in Geometry **10** (2010), 311-321.

Professional Appointments

- 2019 - : Assistant Professor. University of the Aegean.
Department of Mathematics, Samos, Greece.
- 2016-2019 : Postdoctoral Fellow. Vienna University of Technology.
Institute of Discrete Mathematics and Geometry. Vienna, Austria.
- 2015-2016 : Postdoctoral Fellow. Technion - Israel Institute of Technology.
Department of Mathematics, Haifa, Israel.
- 2014-2015 : Postdoctoral Fellow. University of Crete.
Department of Mathematics. Heraklion, Greece.
- 2012-2014 : Visiting Assistant Professor. Texas A&M University.
Department of Mathematics. College Station, Texas, USA.
- 2011-2012 : Visiting Assistant Professor. University of Alberta.
Department of Mathematics. Edmonton, Alberta, Canada.
- 2011 : Visiting Assistant Professor. University of Crete.
Department of Mathematics. Heraklion, Greece.
- 2010 : Postdoctoral Fellow. Fields Institute.
Thematic Program "Asymptotic Geometric Analysis"
Toronto, Ontario, Canada.
- 2008-2009 : Teaching Position. Technological Institute of Piraeus. Greece.
- 2006-2007 : Teaching Position. Technological Institute of Piraeus. Greece.
- 2005-2006 : Teaching Position. Technological Institute of Piraeus. Greece.

Short visits and Scholarships

- 2007 : Early Stage Researcher in the framework of the Research Training
Network "Phenomena in High Dimensions"
Christian-Albrechts-Universität, Kiel, Germany.
- 2012-2015 : NSRF Scholarship "Supporting Postdoctoral Researchers" (E.U.
and the Greek Ministry of Education).
University of Crete - Texas A&M University.
- 2018-2020 Lise Meitner Grant - FWF Austrian Science Fund.
Technische Universität Wien.

Conferences - Talks

- 2019/12 : Workshop in Analysis, Department of Mathematics, University of the Aegean, Samos, Greece.
- 2017/09 : Convex and Integral Geometry, Goethe University Frankfurt am Main, Germany.
- 2017/09 : 19th ÖMG Congress and Annual DMV Meeting, Paris-Lodron University of Salzburg, Germany.
- 2016/12 : Symposium of Analysis. University of Aegean Samos, Greece.
- 2016/07 : Geometry Seminar. Institute of Discrete Mathematics and Geometry, Vienna University of Technology, Vienna, Austria.
- 2016/03 : Analysis Seminar. Department of Mathematics, University of Crete, Heraklion, Greece.
- 2016/03 : Probability Seminar, Technion - Israel Institute of Technology, Haifa, Israel.
- 2015/10 : PDE and Applied Mathematics Seminar, Technion - Israel Institute of Technology, Haifa, Israel.
- 2014/03 : Probability and Statistical Physics Seminar, University of Chicago, Chicago, Illinois, USA.
- 2014/03 : Informal Analysis Seminar, Kent State University, Kent, Ohio, USA.
- 2014/03 : Measure Theory Seminar, Kent State University, Kent, Ohio, USA.
- 2013/11 : Analysis Seminar, University of Missouri, Columbia, Missouri, USA.
- 2012/12 : Convex Geometry and its Applications. Oberwolfach, Germany.
- 2012/09 : Workshop on Asymptotic Geometric Analysis, Fields Institute, Toronto, Ontario, Canada.
- 2011/04 : Workshop on Asymptotic Geometric Analysis, Tel-Aviv University, Tel-Aviv, Israel.
- 2009/12 : Convex Geometry, Oberwolfach, Germany.
- 2009/07 : Concentration week "Probability in Asymptotic Geometry", College Station, Texas, USA.
- 2008/09 : Problems in Analysis. University of Aegean, Samos, Greece.
- 2008/05 : 12th Hellenic Conference in Analysis, Athens, Greece.
- 2008/05 : Geometry and Probability in Interaction, Toulouse, France.
- 2007/06 : Third Annual Conference of Marie Curie Research Training Network "Phenomena in High Dimensions", Samos, Greece.
- 2007/06 : Convex Geometry Analytic Aspects, Cortona, Italy.