Peter Pivovarov

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Appointments

As of 08/2012	**University of Missouri-Columbia** Assistant Professor	Columbia, MO
01/2011 - 07/2012	**Texas A&M University** Visiting Assistant Professor	College Station, TX
09/2010 - 12/2010	**Fields Institute** Postdoctoral Fellow Thematic Program on Asymptotic Geometric Analysis	Toronto, ON
06/2010 - 08/2010	**University of Alberta** Postdoctoral Fellow Supervisor: Nicole Tomczak-Jaegermann	Edmonton, AB

Education

09/2005 - 05/2010	**University of Alberta** Ph.D. Mathematics Thesis: Volume distribution & the geometry of high-dimensional random polytopes Supervisor: Nicole Tomczak-Jaegermann	Edmonton, AB
09/2003 - 09/2005	**University of Alberta** M.Sc. Mathematics Thesis: Banach-Mazur distance and random convex bodies Supervisor: Nicole Tomczak-Jaegermann	Edmonton, AB
09/1999 - 06/2003	**University of Calgary** B.Sc. Pure Mathematics (1^{st} Class Honours) Awarded Silver Medallion for the Dept. of Math and Stats	Calgary, AB

Grants

06/2013 - 05/2014	**University of Missouri Research Board Grant** Quantifying random phenomena in high dimensions
01/2011 - 07/2012	**Natural Sciences & Engineering Research Council of Canada** Postdoctoral Fellowship Award;

Fellowships

	Phenomena in High Dimensions European network	
02/2008 - 04/2008	University of Athens Supervisor: Apostolos Giannopoulos	Athens, Greece
05/2007 - 07/2007	Institute of Mathematics of the Polish Academy of Sciences Supervisor: Piotr Mankiewicz	Warsaw, Poland
04/2006 - 06/2006	Institut Henri Poincaré Marie-Curie Fellow	Paris, France

Graduate Scholarships

	Killam Trusts
05/2008 - 04/2010	Izaak Walton Killam Graduate Scholarship • Most prestigious graduate award(s) administered by the University of Alberta
2008	Dorothy J. Killam Memorial Graduate Prize • Awarded annually to the top Killam Memorial Scholarship recipient in each of the four discipline-specific divisions
	Natural Sciences and Engineering Research Council of Canada
09/2005 - 08/2007	Post-Graduate Scholarship D (Doctoral)
09/2003 - 08/2005	Post-Graduate Scholarship A (Master's)
	Government of Alberta
09/2007 - 08/2008	Ralph Steinhauer Award (Doctoral) • 1 of 8 awarded province-wide
09/2003 - 08/2004	Ralph Steinhauer Award (Master's)
	University of Alberta
2007	Josephine M. Mitchell Research Prize
2006	Josephine M. Mitchell Scholarship

Papers

1. G. Paouris, P. Pivovarov and J. Zinn, *A central limit theorem for projections of the cube*, to appear in Probab. Theory Related Fields (appeared online DOI 10.1007/s00440-013-0518-8).
2. G. Paouris and P. Pivovarov, *Small-ball probabilities for the volume of random convex sets*, Discrete Comput. Geom., 49 (2013), no. 3, 601-646.
3. G. Paouris and P. Pivovarov, *A probabilistic take on isoperimetric-type inequalities*, Adv. Math. 230 (2012), 1402-1422.
4. G. Paouris and P. Pivovarov, *Intrinsic volumes and linear contractions*, Proc. Amer. Math. Soc. 141 (2013), 1805-1808.
5. P. Pivovarov, *On the volume of caps and bounding the mean-width of an isotropic convex body*, Math. Proc. Cambridge Philos. Soc. 149 (2010), 317-331.
6. P. Pivovarov, *On determinants and the volume of random polytopes in isotropic convex bodies,* Geom. Dedicata 149 (2010), 45-58.
7. P. Pivovarov, *Volume thresholds for Gaussian and spherical random polytopes and their duals,* Studia Math. 183 (2007), 15-34.
8. P. Pivovarov, *Random convex bodies lacking symmetric projections, revisited through decoupling,* Lecture Notes in Math., vol. 1910, Springer, 2007, pgs 255-263.

Submitted

- D. Cordero-Erausquin, M. Fradelizi, G. Paouris, P. Pivovarov, *Volume of the polar of random sets and shadow systems*, 23 pgs.

Selected Talks

Conferences

03/2014	Geometric Tomography & Harmonic Analysis	Banff, AB
03/2013	Interplay of convex geometry and Banach space theory	Banff, AB
12/2012	Convex Geometry and its Applications	Oberwolfach, Germany
08/2012	Invariants in convex geometry and Banach space theory	AIM, Palo Alto, CA
06/2012	NSF/CBMS Small Deviation Probabilities	Huntsville, AL
04/2012	Convexity and Asymptotic Geometric Analysis	Montreal, QC
06/2011	Asymptotic Geometric Analysis and Convex Geometry (CMS)	Edmonton, AB
05/2011	Harmonic Analysis in Convex Geometry	Banff, AB
09/2010	Workshop on Asymptotic Geometric Analysis and Convexity	Toronto, ON
08/2010	Perspectives in High Dimensions Conference	Cleveland, OH
06/2010	Asymptotic Geometric Analysis Conference	St Petersburg, Russia
04/2010	Volume Inequalities	Banff, AB
05/2009	Canadian Abstract Harmonic Analysis Symposium (Laufest)	Edmonton, AB
07/2009	Probability in Asymptotic Geometry	College Station, TX
07/2008	Probabilistic Methods in Geometry	Bedlewo, Poland
06/2008	4^{th} Phenomena in High Dimensions Conference	Seville, Spain
06/2007	3^{rd} Phenomena in High Dimensions Conference	Samos, Greece
04/2007	Affine Invariants, Randomness, and Convex Geometry (AMS)	Hoboken, NJ
03/2007	PIMS CRG in Geometric and Harmonic Analysis.	Edmonton, AB
07/2005	1^{st} Phenomena in High Dimensions Conference	Vienna, Austria

Seminars

10/2012	University of Missouri: Analysis Seminar	Columbia, MO
12/2011	University of Texas: Analysis Seminar	Austin, TX
02/2011	Texas A&M University: Linear Analysis Seminar	College Station, TX
12/2010	Fields Institute: Young Researchers' Seminar	Toronto, ON
05/2007	Institute of Mathematics of the Polish Academy of Sciences	Warsaw, Poland

Teaching Experience

	University of Missouri	Columbia, MO
Present	Graduate Real Analysis II, Intro to Advanced Math	
08/2013 - 12/2013	Graduate Real Analysis I, Calculus III	
01/2013 - 05/2013	Matrix Theory	
08/2012 - 12/2012	Calculus III	
	Texas A&M University	College Station, TX
01/2012 - 05/2012	Mathematical Probability	
01/2011 - 05/2011	Topics in Applied Math I (applied linear algebra)	
	University of Alberta	Edmonton, AB
05/2009 - 06/2009	Calculus III	
02/2008	Calculus II (substitute lecturer for $(1/4)^{th}$ of the course)	
2005 - 2010	Tutorial sessions for Calculus I - III, Linear Algebra I	

Conferences organized

10/2013	American Mathematical Society, Fall Central Sectional Meeting: Special Session on *Convex Geometry and its Applications*	St. Louis, MO