

CURRICULUM VITAE - EMANUEL MILMAN

Date and place of Birth: January 12, 1977, Israel.

Nationality: Israeli.

Marital Status: Married.

E-Mail: emilman@math.toronto.edu .

Web-page: www.math.toronto.edu/emilman .

Phone: +1-416-946-5440.

Postal Address: Department of Mathematics, University of Toronto, 40 St. George Street,
Toronto, ON M5S 2E4, Canada.

Academic Appointments

Oct 2009 - present : Senior Lecturer at the Technion, Haifa.

Jul 2009 - present : Post-Doctoral fellow at the University of Toronto.

Sep 2008 - Jun 2009 : Post-Doctoral member at the Institute for Advanced Study, Princeton.

Jun 2008 - Aug 2008 : Researcher at the Technion, Haifa.

Sep 2007 - May 2008 : Post-Doctoral member at the Institute for Advanced Study, Princeton.

Education

Oct 2003 - Aug 2007 : The Weizmann Institute of Science, Israel.

Ph.D., Pure Mathematics.

Supervisor: Prof. Gideon Schechtman.

Thesis: *On the Distribution of Volume in Convex Bodies*.

Oct 1996 - Oct 2000 : Tel-Aviv University, Israel.

M.Sc. Summa Cum Laude, Pure Mathematics.

Supervisor: Prof. Ehud Lehrer.

Thesis: *Uniform Properties of Stochastic Games and Approachability*.

Grade point average: 99.

Oct 1993 - Oct 1996 : Tel-Aviv University, Israel.

B.Sc. Summa Cum Laude, Mathematics and Computer-Science.

Grade point average: 98.

Conferences Organized

Oct 29 - Nov 1, 2009, Boca Raton, Florida.

International Workshop on “Concentration, Functional Inequalities, and Isoperimetry”, including a Special Session of the AMS 2009 Fall Southeastern Meeting with same title.

Co-organized with Christian Houdré (Georgia Tech) and Mario Milman (FAU).

Editorials

Proceedings of International Workshop on “Concentration, Functional Inequalities, and Isoperimetry” - special volume in Contemporary Mathematics, 2010.

Co-edited with Christian Houdré (Georgia Tech), Michel Ledoux (Toulouse) and Mario Milman (FAU).

Awards

2007 The Gad Resheff Memorial Prize.

2007 Fulbright Post-Doctoral Scholar Award (declined).

2007 The Dr. Otto Schwarz Graduate Scholarship Fund Award.

2006 Dean’s list (top 3%) at the Weizmann Institute of Science.

2000 Awarded personal and team prizes for work in the IDF, including commendation for part in the Israel National Security Award.

1995-1998 Granted position of IDF Outstanding Student.

1995 Rector’s list (top 0.1%) at Tel-Aviv University.

1994-1999 Dean of Exact Sciences list at Tel-Aviv University.

1994-1997 Received 4-year scholarship from Tel-Aviv University under the “Uni-Discipline Program for Distinguished Students”.

1993 Shie Bleiman Award for highschool’s final project in technology.

Invited Talks

Jun 2009, Conference on the State of Geometry and Functional Analysis, Tel-Aviv University.

Apr 2009, Discrete Math Seminar, Rutgers University.

Apr 2009, Colloquium, Lehigh University.

Feb 2009, Members Seminar, Institute for Advanced Study.

Jan 2009, Functional Analysis Seminar, Technion.

Dec 2008, Colloquium, Polytechnic Institute of NYU.

Oct 2008, City University of New York. Probability Seminar.

Aug 2008, Weizmann Institute. Geometric Functional Analysis and Probability Seminar.

Jun 2008, Sevilla. Fourth annual conference on “Phenomena in High Dimensions”.
Jun 2008, Technion. Colloquium.
May 2008, CIRM, Luminy. Fifth Conference on “Probability in High Dimensions”.
May 2008, Case-Western Reserve University. Colloquium.
May 2008, Ohio-State University. PDE Seminar.
Apr 2008, Courant Institute. Differential Geometry and Topology Seminar.
Mar 2008, University of Missouri. Conference on “Asymptotic Convex Geometry”.
Feb 2008, MIT. PDE Seminar.
Nov 2007, Polytechnic University. Colloquium.
Nov 2007, AIM. Workshop on “Algorithmic Convex Geometry”.
Sep 2007, Fields Institute, Ottawa. Workshop on “Geometrization of Probability”.
Aug 2007, AIM. Workshop on “Fourier Analytic Methods in Convex Geometry”.
Jun 2007, Samos. Third annual conference on “Phenomena in High Dimensions”.
Jun 2007, Cortona. Educational Workshop on “Convex Geometry - Analytic aspects”.
May 2007, Ben-Gurion University. Israel Mathematical Union annual meeting.
Apr 2007, Tel-Aviv University. Geometric and Functional Analysis Seminar.
Sep 2006, Freudenstadt. Educational workshop on “Convexity and Probability”.
Jun 2006, IHP, Paris. Second annual conference on “Phenomena in High Dimensions”.
Apr 2006, Weizmann Institute. Geometric Functional Analysis and Probability Seminar.
Jul 2005, TU Vienna. First annual conference on “Phenomena in High Dimensions”.
Jun 2002, Hebrew University. Game Theory and Mathematical Economics Seminar.

Refereeing

Geometric and Functional Analysis, Journal of the EMS, Advances In Mathematics, Journal of Functional Analysis, Mathematische Annalen, Transactions of the AMS, Annales de l’institut Henri Poincaré (B), Journal of Topology and Analysis, Studia Mathematica, Israel Journal of Mathematics, Journal of Mathematical Analysis and Applications, GAFA seminar notes.

Academic Interests

Asymptotic Convex and Geometric Analysis, distribution of volume in convex bodies, metric entropy and covering numbers, empirical processes, general phenomena in high dimensions, interplay between geometry and spectral properties of Riemannian manifolds with density, isoperimetric, functional and concentration inequalities, geometry of isoperimetric minimizing surfaces, Geometric Measure Theory, diffusion semi-group and heat-kernel estimates in convex manifolds, optimal transport and the Monge-Ampère equation, convexity of solutions to parabolic PDE, classical Convex Geometry, “local theory” of Banach Spaces, convexity in graphs, Sobolev spaces, Radon transforms and Harmonic Analysis on Grassmann manifolds.