

Department of Pure Mathematics
School of Mathematical Sciences
Tel Aviv University

Shiri ARTSTEIN-AVIDAN, Ph.D.

CURRICULUM VITAE

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Date and place of birth:	September 28, 1978, Jerusalem
Marital status:	Married
No. of children:	Three

EDUCATION

1997-2000	B.Sc.,	Mathematics, Summa Cum Laude Tel Aviv University Date of award: 2000
2000-2004	Ph.D.	Mathematics, with distinction Tel Aviv University Date of award: 2004 Title of Doctoral Dissertation: Entropy Methods Name of Supervisor: Professor Vitali D. Milman.

ACADEMIC AND PROFESSIONAL EXPERIENCE

1999-2001	Teaching Assistant, Tel Aviv University
2001-2004	Instructor, Tel Aviv University
2004-2006	Veblen Research Instructor, Dep. of Math., Princeton University and School of Math., Institute for Advanced Study, Princeton NJ

2006-2009	Senior Lecturer, School of Math., Tel Aviv University, Tel Aviv, Israel
2009-2014	Professor (assoc.), School of Math., Tel Aviv University, Tel Aviv, Israel
2014-present	Professor (full), School of Math., Tel Aviv University, Tel Aviv, Israel

ACADEMIC AND PROFESSIONAL AWARDS

1997-2000	The Adi Lautman Program for Outstanding Students, Tel Aviv University.
1998	Dean's list, Tel Aviv University
1999	Dean's list, Tel Aviv University
2000	Rector's list, Tel Aviv University
2000	CheckPoint Com. prize for excellence in studies
2001	Excellent PhD student prize, Tel Aviv University
2001	The Knesset certificate of appreciation for excellent stu- dents
2003	The Wolf foundation research prize for PhD students.
2004/5	Rothschild Fellowship (declined)
2006	Haim Nessayahu Prize in Mathematics of the Israel Math- ematical Union
2006-2009	Alon Fellowship (of the Israeli Academy of Science)
2007	Sackler Cathedra for young faculty, Tel Aviv University.
2008	The Krill Prize for Excellence in Scientific Research, Wolf Foundation
2010	Coxeter Lecture series, Fields institute, September 17, 20 & 21, 2010, Toronto.
2015	Erdős Prize of the Israel Mathematical Union
2016	Tel Aviv University award for commitment to the ad- vancement of women in science
2016	Kadar Family Award for Outstanding Research

STUDENTS SUPERVISED

2007–2008	Tal Weisblatt, (M.Sc., joint supervision with Vitali Milman) The Santaló region of a log-concave function
2008–2009	Boaz Slomka, (M.Sc.) Characterizing isomorphisms associated to different convex structures
2008–2010	Dan Florentin (M.Sc., joint supervision with Vitali Milman), Convexity preserving maps
2008–2010	Orit Raz (M.Sc.), Fractional covering numbers
2012–2013	Yoav Nir (M.Sc., joint supervision with Yaron Ostrover) Minimizing closed characteriztics on convex bodies.
2009–2014	Boaz Slomka, (Ph.D.) Asymptotic analysis and convexity
2011–2014	Keshet Gutman-Einhorn (M.Sc.) Godebersen’s conjecture and measures of symmetry.
2010–2015	Dan Florentin (Ph.D., joint supervision with Vitali Milman), Inequalitites in Asymptotic Geometric Analysis.
2014–2016	David Katzin, Isotropic Measures and Maximizing Ellipsoids: Between John and Loewner.

CURRENT STUDENTS

2016–present	Hila Barel (M.Sc.)
2017–present	Shay Sadovsky (M.Sc.)

ACTIVE RESEARCH GRANTS

2015–2019	(PI) Israel Science Foundation personal research grant. Title: “Asymptotic Convex Geometric Analysis”. Amount: 224,000 NIS per year.
2013–2017	(PI) United States - Israel Binational Science Foundation research grant, joint with: B. Klartag, J. Solomon and Y. Rubinstein. Title: Applications of Monge-Ampere type equations. Amount: 39,000 US\$ per year.

OTHER ACTIVITIES

- 1999 Summer student at the Weizmann Institute, 1999 (research in combinatorics under the supervision of Professor Aviezri S. Fraenkel).
- 2002 Visiting PhD student, University College London, February-March and June 2002 (research in collaboration with Prof. Keith M. Ball).
- 2002 Attended the ICMS Instructural Conference on Combinatorial Aspects of Functional Analysis, Edinburgh, March 26 - April 4, 2002.
- 2002 Visiting PhD student, Universities Paris 6 and Paris 7, April-May 2002 (research in collaboration with Prof. Franck Barthe).
- 2003 Participated in Geometrie der Banachraum Workshop in Oberwolfach, April 13-19, 2003.
- 2003 Visiting PhD student, University Paris 6, June-August 2003.
- 2005 Summer guest of the Weizmann Institute, June and August 2005.
- 2006-present Co-organizer of the Asymptotic Geometric Analysis seminar at Tel Aviv University.
- 2008 Seville, Spain, part of the organizing committee of the 4th Annual Conference of the Phenomena in High Dimensions network, June 23-27, 2008.
- 2009 Member of the organizing committee of “The state of Geometry and Functional Analysis”, an international conference in honor of the 70th anniversary of Prof. Vitali Milman, June 24-30, 2009.
- 2012-2015 Speaker at “From Gauss to Google” - a program for the introduction of high school mathematics teachers to current research topics in mathematics.
- 2012 Eilat and Haifa, organizer of “ISF Workshop on Interactions Between Asymptotic Geometric Analysis and

- Mathematical Physics” and of the “Conference on Interactions Between Asymptotic Geometric Analysis and Mathematical Physics” May 3-10, 2012.
- 2014 Local organizer of the joint IMU-AMS meeting held at Bar-Ilan and Tel Aviv Universities, June 16-20, 2014.
- 2015 Organizer of the First Israeli conference for Women in Mathematics held at Tel Aviv Universities, August 9-13, 2015.
- 2015-2016 Member of the Tel Aviv University team of the qualifying program for high school mathematics teachers.
- 2016 Organizer of the Asymptotic Geometric analysis workshop at Oberwolfach, February 22-27, 2016.
- 2016 Organizer of the Second Israeli conference for Women in Mathematics, IAS Jerusalem, September, 2016.

ACTIVE PARTICIPATION IN SCIENTIFIC MEETINGS

- 2001 Oberwolfach, Workshop on Convex Geometry, April 22-28, 2001
- 2001 Rehovot, Functional Analysis Meeting of the Israel Mathematical Union, May 21, 2001
- 2001 Crete, Workshop on Convex Geometric Analysis, August 19-23, 2001
- 2002 Biarritz, European Mathematical Union Meeting on Analysis, May 7-12, 2003
- 2002 Paris, Geometry and Functional Analysis Day, May 31, 2002
- 2002 Cambridge, Probability Seminar, June 18, 2002
- 2002 Vancouver, Thematic Programme on Asymptotic Geometric Analysis, Summer 2002.
- 2002-2004 Tel Aviv, GAFA seminar: November 8, 2002; March 28, 2003; December 5, 2003; February 19, 2004; December 24, 2004
- 2003 Kiel, Conference on Banach Spaces and Convex Geometric Analysis, April 7-11, 2003

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- 2003 Zikhron-Yaakov, Israel Mathematical Union meeting, May 8-9, 2003
- 2003 Jerusalem, Combinatorics and Convexity Seminar at the Hebrew University, May 26, 2003
- 2003 Cortona, Workshop on Convex Geometry, June 9-14, 2003
- 2003 Paris, Geometry and Functional Analysis Day, June 27, 2003.
- 2004 Banff, Conference in Convex Geometric Analysis, July 10-15, 2004.
- 2004 Snowbird, Conference in Gaussian Measure and Geometric Convexity, July 18-23, 2004.
- 2004,2005 New York, Colloquium at Polytech. Uni., October 28, 2004; November 3, 2005.
- 2004 Princeton, Princeton University, Analysis Seminar, November 22, 2004.
- 2004 Princeton, Institute for Advanced Study, Discrete Math. Seminar, December 6, 2004.
- 2005 Jerusalem, Hebrew University, IAS Workshop "Contemporary Ramifications of Banach Space Theory", June 22, 2005.
- 2005 Vienna, Asymptotic Theory of the Geometry of Finite Dimensional Spaces School at the ESI, July 13.
<http://shrimp.bayou.uni-linz.ac.at/Vienna2005/pdf/artstein.pdf>
- 2005 New York, Columbia University, Probability seminar, October 14, 2005.
- 2005 Cleveland Ohio, Case Western Reserve University, Colloquium talk, November 18, 2005.
- 2006 Canberra Australia, Australian National University, Analysis and PDE seminar, March 27, 2006.
- 2006 Neve Ilan, Israel, IMU meeting, May 2006.
- 2006 Paris, Annual Conference of Phenomena in High Dimensions Network, June 2006.

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- 2006 Jerusalem, Hebrew University, Colloquium, November 17, 2006.
- 2007 Cortona, Italy, Fourth International Workshop on “Convex Geometry - Analytic Aspects”, June 3-9, 2007.
- 2007 Ottawa, Canada, gave a mini-course at “Geometrization of Probability”, Fields Institute Workshop, September 22-24, 2007.
- 2008 Budapest, Intuitive Geometry, in Memoriam László Fejes Tóth Alfréd Rényi Institute of Mathematics, June 30 - July 4, 2008.
- 2010 Bad Herrenalb, Workshop on Convex and Stochastic Geometry May 30 - June 4, 2010.
- 2010 Toronto, Thematic Program on Asymptotic Geometric Analysis September 2010.
- 2011 Cortona, Plenary talk at the Fifth International Workshop on “Convex geometry analytic aspects” June 12-18, 2011.
- 2011 Frankfurt, Plenary talk at “Convex and Integral Geometry” Goethe-University Frankfurt September 26-30, 2011.
- 2012 Israel, various talks on “Differential analysis of the polarity transform” Jerusalem Hebrew University Mathematics Colloquium, Feb 2nd; Rehovot, Weizmann Institute Mathematical Analysis and Applications Seminar May 22; Be’er Sheva, Ben Gurion University Mathematics Colloquium, June 19; Tel Aviv University applied mathematics seminar, May 1 2012.
- 2013 Banff, presented two talks at the conference “Interplay of convex geometry and Banach space theory” March 10-15, 2013.
- 2013 Haifa, Colloquium talk at the Technion, “Symplectic Isoperimetry implies Mahler’s conjecture”, November 18, 2013.
- 2013 College park, Maryland, Colloquium talk at University of Maryland, “Symplectic measurements and billiards”, December 4, 2013.

- 2014 Jerusalem, Hebrew University, Combinatorics seminar, “Symplectic isoperimetry, Mahler’s conjecture and billiards”, February 17, 2014.
- 2015 Dead sea, Erdős lecture at the Annual Meeting of the Israel Mathematical Union 28-31 May 2015
- 2015 Jerusalem, Conference in honor of Gil Kalai’s 60th birthday, “measures of symmetry”, June 16, 2015.
- 2015 Rehovot, Weizmann Institute Mathematical Analysis and Applications Seminar November 17, 2015.
- 2015 Oberwolfach, Workshop on Convex Geometry, “Godberesn’s conjecture and related inequalities” Dec. 6-11, 2015.
- 2016 Berlin, BMS Sonia Kovalevskaya Colloquium, April 29, 2016.
- 2016 Vienna, Speaker at “Conference on Convex and Discrete Geometry” celebrating Prof. Grubers’s 75th birthday, “Billiard in convex domains”, July 3-8 2016.
- 2016 Berlin, Speaker at the mini-symposium “Asymptotic Geometric Analysis” at the 7-th Congress of the European Mathematical Society, 18-22 July 2016.

Date:Feb 2017