

Department of Pure Mathematics  
School of Mathematical Sciences  
Tel Aviv University

**Shiri ARTSTEIN, Ph.D.**

## **CURRICULUM VITAE**

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

## **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
2001	Instructor: Mathematics for Biology, Tel Aviv University

- 2002 Instructor: Mathematics for Chemists 2, Tel Aviv University
- 2002,2003 Instructor: Hilbert Spaces, Tel Aviv University
- 2002 Lecturer: Mathematics for Chemists 1, Tel Aviv University, 2002
- 2003 Lecturer: Calculus 1, Tel Aviv University, 2003
- 2004-2006 Veblen Research Instructor, Dep. of Math., Princeton University and School of Math., Institute for Advanced Study, Princeton NJ
- 2004 Lecturer: Mat 103-Freshmen Calculus, Princeton University, 2004
- 2005 Lecturer: Mat 202-Linear Algebra for Engineers, Princeton University, 2005
- 2006-2009 Senior Lecturer, School of Math., Tel Aviv University, Tel Aviv, Israel
- 2006 Lecturer: Calculus 1 for math students, Tel Aviv University, 2006
- 2007 Lecturer: Introduction to Set Theory for math students, Convex Bodies in high dimensions for graduate students, Tel Aviv University, spring 2007.
- 2008 Lecturer: Functional Analysis, Advanced seminar in Convexity, Tel Aviv University, spring 2008, Calculus 1 for math students, Introduction to Set Theory for math students Tel Aviv University, fall 2008.
- 2009 Lecturer: Advanced seminar in Convexity, Advanced course in Asymptotic Geometry, Tel Aviv University, spring 2009.
- 2009-present Professor (assoc.), School of Math., Tel Aviv University, Tel Aviv, Israel
- 2010 Lecturer: Calculus 2 for Math Students, Advanced course in Asymptotic Geometry, spring 2010. Calculus 3 for math students, Operator theory and Hilbert spaces, Fall 2010.

2011                   Lecturer: Asymptotic Convex Geometric Analysis, seminar in Convexity, spring 2011. Advanced undergraduate course in convexity, Advanced seminar in Convexity, Fall 2011.

### **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 Banachraume 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.

### **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

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- 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
- 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>

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- 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.
- 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 Seville, Spain, part of the organizing committee of the 4th Annual Conference of the Phenomena in High Dimensions network, June 23-27, 2008.
- 2008 Budapest, Intuitive Geometry, in Memoriam László Fejes Tóth Alfréd Rényi Institute of Mathematics, June 30 - July 4, 2008.
- 2009 Tel Aviv University and the Dead Sea resort, member of the organizing committee of “The state of Geometry and Functional Analysis”, a conference in honour of the 70<sup>th</sup> anniversary of Prof. Vitali Milman, June 24-30, 2009.
- 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 HaGoshrim and Tel Aviv, member of the organizing committee of “Geometry and the distribution of volume in convex bodies”, held at Hagoshrim resort and at Tel Aviv University, March 31st–April 6th, 2011.

- 2011 Cortona, plenary talk at the Fifth International Workshop on “Convex geometry analytic aspects” June 2011, 12th-18th
- 2011 Frankfurt, plenary talk at “Convex and Integral Geometry” Goethe-University Frankfurt September 26-30, 2011.

### **ACADEMIC AND PROFESSIONAL AWARDS**

- 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 students
- 2003 The Wolf foundation research prize for PhD students
- 2004/5 Rothschild Fellowship (declined)
- 2006 Haim Nessayahu Prize in Mathematics
- 2006-2009 Alon Fellowship
- 2007 Sackler Cathedra for young faculty, Tel Aviv University.
- 2008 The Krill Prize for Excellence in Scientific Research
- 2010 Coxeter Lecture series, Fields institute, September 17, 20 & 21, 2010, Toronto.

### **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

2008–2011 Orit Raz (M.Sc.), Fractional covering numbers.

### **CURRENT STUDENTS**

2009–present Boaz Slomka, (Ph.D.) Asymptotic analysis and convexity

2010–present Dan Florentin (Ph.D., joint supervision with Vitali Milman), TBA.

2010–present Liran Tuchman (M.Sc., joint supervision with Efrat Blumenfeld-Liberthal) TBA.

2011–present Keshet Gutman-Einhorn (M.Sc.) TBA.

### **ACTIVE RESEARCH GRANTS**

2011-2015 (PI) Israel Science Foundation personal research grant. Title: “convexity and geometric analysis”. Amount: 226,200 NIS per year.

2007-2012 (one year extension) (PI) Israel Science Foundation personal research grant. Title: “Asymptotic Geometric Analysis: Geometric Complexity”. Amount: 124,000 NIS per year.

2007-2012 (one year extension) (PI) United States - Israel Binational Science Foundation research grant, joint with: B. Klartag, V. Milman, Y. Ostrover, S. Szarek and E. Werner. Title: Applications of the methods of Asymptotic Geometric Analysis to Symplectic Geometry, Function Inequalities and Metric Entropy. Amount: 24,500 US\$ per year.

Date: December 2011