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Contact information

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Research interests Symplectic geometry, algebraic geometry

Appointments

2021 –	Senior Lecturer at Tel Aviv University
2017 – 2021	Member of the School of Mathematics at IAS, Princeton
Spring 2018	Member at MSRI, Berkeley
2016 – 2017	Postdoctoral fellow of the Canada Research Chair at Université de Montréal

Education

2011 – 2017	PhD in Mathematics, The Hebrew University of Jerusalem
2008 – 2011	M.Sc. in Mathematics, The Hebrew University of Jerusalem
2005 – 2008	B.Ed. in Mathematics -extended, Michlalah Jerusalem College

Papers

Differential forms, open-closed maps, and Gromov-Witten axioms, with Pavel Giterman and Jake P. Solomon, arXiv:2509.06034, to appear in *J. Symplectic Geom.*

Weinstein neighbourhood theorems for stratified subspaces, with Yael Karshon and Yoav Zimhony, arXiv:2507.04897, to appear in *J. Lond. Math. Soc.*

WDVV-based recursion for open Gromov-Witten invariants, with Roi Blumberg, arXiv:2402.10542, *J. Topol.,* https://doi.org/10.1112/topo.70063

Examples of relative quantum cohomology, with Kai Hugtenburg, arXiv:2402.03209, to appear in *Kyoto J. Math.*

Obstruction theory for cohomologically incompressible Lagrangians, arXiv:2311.18511

Differential forms on orbifolds with corners, with Jake P. Solomon, arXiv:2011.10030, *J. Topol. Anal.*, 16 (2024), no. 4, 561-615, https://doi.org/10.1142/S1793525323500048

Relative quantum cohomology, with Jake P. Solomon, arXiv:1906.04795, *J. Eur. Math. Soc.* 26 (2024), no. 9, 3497–3573, https://doi.org/10.4171/jems/1337

Point-like bounding chains in open Gromov-Witten theory, with Jake P. Solomon, arXiv:1608.02495, *Geom. Funct. Anal.* 31 (2021), no. 5, 1245 – 1320, https://doi.org/10.1007/s00039-021-00583-3

Differential forms, Fukaya A∞ algebras, and Gromov-Witten axioms, with Jake P. Solomon, arXiv:1608.01304, *J. Symplectic Geom.* 20 (2022), no. 4, 927-994, https://dx.doi.org/10.4310/JSG.2022.v20.n4.a5

Towards super-rigidity of holomorphic disks in Calabi-Yau threefolds ,with Jake P. Solomon, M.Sc. thesis (original ,or: https://www.math.ias.edu/~sarabt/masters_proofread.pdf)

Selected invited talks

January 2026	Colloquium, Technion, Haifa
May 2024	Colloquium of the ZMP, Hamburg
June 2023	Hodge Theory, Mirror Symmetry, and Physics of Calabi-Yau Moduli, Heidelberg
December 2022	IBS-CGP & MATRIX Workshop on Symplectic Topology, Creswick
June 2022	Mini-Workshop on Symplectic Geometry, Utrecht
June 2022	3CinG Symplectic versus Algebraic Geometry, Warwick (part. online)
March 2022	Recent developments in Lagrangian Floer theory, Simons Center for Geometry and Physics, Stony Brook
March 2021	AMS Spring Eastern Virtual Sectional Meeting
February 2021	Joint CUHK-Harvard-YMSC Differential Geometry Seminar
March 2020	Shanks Workshop: Real Enumerative Geometry and Beyond, Vanderbilt University, Nashville
January 2020	Topics in Symplectic Geometry, University of Augsburg
January 2020	Conference on Real and Enumerative Geometries / Topology, Geometry, and Algebra Seminar, University of Nantes
January 2020	The London Geometry and Topology Seminar
January 2020	EDGE, University of Edinburgh
January 2020	Symplectic Geometry Seminar, Heidelberg University
January 2020	Physical Mathematics Seminar, Heidelberg University
November 2019	Symplectic Geometry Seminar, ETH, Zürich
November 2019	Geometry and Topology Seminar, Technion, Haifa
November 2019	Geometry and Dynamics Seminar, Tel Aviv University
November 2019	Geometry and Topology Seminar, Weizmann Institute, Rehovot
November 2019	Colloquium, University of Haifa
November 2019	Colloquium, Bar Ilan University, Ramat Gan
November 2019	Colloquium, The Hebrew University of Jerusalem
November 2019	Members' Seminar, IAS, Princeton
November 2019	Math-Physics Joint Seminar, University of Pennsylvania, Philadelphia
October 2019	Symplectic and Poisson Geometry Seminar, University of Illinois at Urbana-Champaign

September 2019	Symplectic Geometry, Gauge Theory & Categorifications Seminar, Columbia University, New York
September 2019	The Geometry and Algebra of Landau-Ginzburg Models, workshop, Fields Institute, Toronto
October 2018	Colloquium, Temple University, Philadelphia
June 2018	Colloquium, Technion, Haifa
June 2018	Colloquium, Bar Ilan University, Ramat-Gan
June 2018	Geometry and Topology Seminar, Hebrew University of Jerusalem
March 2018	Simons Collaboration Workshop: Mirror Symmetry and Enumerative Geometry, UC Berkeley
April 2018	Geometry and Topology Seminar, UC Davis
March 2017	Shanks Workshop on Real Algebraic Geometry, Vanderbilt University, Nashville
February 2017	Geometric Structures Laboratory, Fields Institute, Toronto
February 2017	Symplectic Geometry Seminar, Toronto University
February 2017	PU/IAS Symplectic Geometry Seminar
January 2017	Ottawa-Carleton Joint Algebra Seminar
October 2016	Geometry and Topology Seminar, CIRGET, Montréal
Fall 2016	Symplectic Seminar (series of 3 talks), CIRGET, Montréal
May 2016	The Sixth Advanced Seminar in Symplectic Geometry and TFT, BICMR, Beijing
May 2016	Simons collaboration: Workshop on SYZ Mirror Symmetry and Related Topics, Harvard, Cambridge
December 2015	Geometry and Dynamics Seminar, Tel-Aviv University
December 2015	Princeton/IAS Symplectic Geometry Seminar
November 2015	Symplectic Geometry Seminar, Berkeley
October 2015	KCL/UCL special geometry seminar, London
October 2015	Algebraic and Symplectic Geometry Seminar, Oxford
October 2015	Algebraic Geometry Seminar, Courant Institute, New York University
May 2015	Tzafriri talk (colloquium), The Hebrew University of Jerusalem

Awards and honors

Post-graduate	2025	Rector's excellence in teaching award for '23-'24
	2021-2024	Colton fellowship for young faculty at TAU
	2021-2026	The Israel Science Foundation Grant No. 2793/21
Graduate and undergraduate	2018	Hans Wiener thesis prize of the Hebrew University
	2018	Nessyahu thesis prize of the Israel Mathematical Union
	2016	Chateaubriand fellowship (declined)
	2016	Lior Tzafriri prize
	2012	Joseph Klein prize
	2009	Dean's excellence award
	2008	Judith Lamm Young prize

Organization of seminars and workshops	July 2025	Organized the geometry seat at the IMU annual meeting
	June 2023	Co-organized the workshop *At the Crossroads of Topology and Enumerative Geometry* http://www.ma.huji.ac.il/~conferences/TEG/
	2022-2024	Organized the Tel Aviv Math Colloquium
	2021 – *current*	Co-organizing the Seminar in Real and Complex Geometry (Tel Aviv)
	2020 – *current*	Co-organizing the Symplectic Zoominar (Montréal-Princeton-IAS-Tel Aviv-Paris)
	Spring 2018	Co-organized the 5-minute talks series at MSRI

Teaching	**Lecturer**	Spring ‘26	Guided reading course: Gluing of J-holomorphic curves (graduate)
			Topology (undergraduate)
		Fall ‘25	Guided reading course: Introduction to toric manifolds (graduate)
			Calculus 2a (undergraduate)
		Spring ‘25	Guided reading course: Introduction to transversality in symplectic geometry (graduate)
			Topology (undergraduate)
		Fall ‘24	Differential geometry (undergraduate)
		Spring ‘24	Lie algebras and Lie groups 1 (graduate)
			Topology (undergraduate)
		Fall ‘23	Complex analysis I (undergraduate)
		Spring ‘23	Seminar: Topics in pseudo-holomorphic curves (graduate)
		Fall ‘22	Differential geometry (undergraduate)
			Guided reading course on Floer homology and quantum homology (graduate)
		Spring ‘22	Topology (undergraduate)
		Fall ‘21	Guided reading course on Gromov’s compactness theorem (graduate)
	TA	2011 – 2016	Teaching assistant at the Hebrew University
		2009 – 2011	Grader at the Hebrew University
		2007 – 2009	Grader and TA at Michlalah Jerusalem College