# CURRICULUM VITAE AND LIST OF PUBLICATIONS

## ORR MOSHE SHALIT

## 1. Personal details

**Name:** Orr Moshe Shalit
**ID number:** XXXXXXXXX
**Phone:** 050-2207899
**Date and place of birth:** 09/02/1977, Tel-Aviv, Israel
**Website:** http://oshalit.net.technion.ac.il

## 2. Academic degrees

2005–2009 Ph.D. in Mathematics, Technion - IIT, Haifa, Israel. Advisor: Baruch Solel.
*Product Systems, Subproduct Systems, and Dilation Theory of Completely Positive Semigroups*

2003–2005 M.Sc. in Mathematics (*summa cum laude*), Technion - IIT, Haifa, Israel. Advisor: Boris Paneah
*Guided Dynamical Systems and Applications to Functional and Partial Differential Equations*

2000–2003 B.S. in Mathematics (*summa cum laude*), Technion - IIT, Haifa, Israel

## 3. Academic appointments

2024 –        Professor, Faculty of Mathematics, Technion - IIT.
2018 – 2024 Associate Professor, Faculty of Mathematics, Technion - IIT.
2014 – 2018 Assistant Professor, Faculty of Mathematics, Technion - IIT.
2011 – 2014 Senior Lecturer, Department of Mathematics, Ben-Gurion University.
2009 – 2011 Postdoctoral Fellow, Department of Pure Mathematics, University of Waterloo.

## 4. Professional experience

2002 – 2003 , 2004–2007 Image Processing Department, Rafael. *Image matching and navigation.*
2020 – 2021 Physics Department, Rafael (sabbatical). *Numerical and machine learning approaches to adaptive optics for laser imaging in the presence of turbulence.*
2021        Part time consultant for Physics Department, Rafael.

## 5. Research interests

Operator theory and operator algebras.
- Dilation theory (operators and CP-semigroups).
- Noncommutative function theory and noncommutative convexity.
- Hilbert function spaces of analytic functions and their multiplier algebras.
- Completely positive maps, operator spaces, and C*-correspondences.

## 6. Teaching experience

(1) Ordinary Differential Equations H (104131), undergraduate, Technion (Winter 2008).
(2) Product Systems and Subproduct Systems: Origins and Applications — 8 week special learning seminar intended for graduate students and faculty, University of Waterloo (Fall 2009).
(3) Calculus 1 for Engineering (MATH 116), undergraduate, University of Waterloo (Fall 2009).
(4) Calculus 3 for Honours Math (MATH 237), undergraduate, University of Waterloo (Winter 2010).
(5) Calculus 3 (MATH 217), undergraduate, University of Waterloo (Fall 2010).
(6) Calculus 2 for Engineering (MATH 118), undergraduate, University of Waterloo (Winter 2011).
(7) Advanced Calculus 1 for ECE (MATH 211), undergraduate, University of Waterloo (Winter 2011).
(8) Linear Algebra for Honours Math (MATH 136), undergraduate, University of Waterloo (Spring 2011).
(9) Fourier Analysis for Electrical Engineering Students (201-1-0041), undergraduate, Ben-Gurion University (Fall 2011)
(10) Infi 2 (201-1-0021), undergraduate, Ben-Gurion University (Spring 2012, Spring 2013, Spring 2014)
(11) Advanced Analysis (201-2-5401), graduate, Ben-Gurion University (Fall 2012, 2013)
(12) PDE for Mechanical Engineering (201-1-9471), undergraduate, Ben-Gurion University (Spring 2013).
(13) Function Theory in Several Complex Variables (201-2-0261), graduate, Ben-Gurion University (Fall 2013)
(14) Infi 1M (104031), undergraduate, Technion (Fall 2014, 2015).
(15) Introduction to Functional Analysis (104276), undergraduate, Technion (Spring 2015, 2020).
(16) Dilation Theory, C*-algebras, and Completely Positive Maps (106465), graduate, Technion (Spring 2016).
(17) Infi 3 (104282), undergraduate, Technion (Fall 2016, Spring 2018).
(18) Von Neumann Algebras (106433), graduate, Technion (Spring 2017).
(19) Functional Analysis (106942), graduate, Technion (Fall 2017, Winter 2023, 2024).
(20) Operator Spaces, Operator Algebras, and Related Topics (106435), graduate, Technion (Fall 2018).
(21) Infi 2 (104281), undergraduate, Technion (Spring 2019).
(22) Infi 3 (104295), undergraduate [**new course+design**], Technion (Fall 2019, Spring 2024).
(23) Introduction to Operator Algebras (106433), graduate, Technion (Fall 2021).
(24) Introduction to PDEs (104030), undergraduate, Technion (Spring 2022).
(25) Introduction to Functional Analysis (104273), undergraduate [**new course+design**], Technion (Spring 2023).
(26) Seminar in Operator Theory (106426), undergraduate/graduate.
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## 7. Technion activities

- 2023 – 2024 Member of the standing committee for academic studies.

## 8. Departmental activities

- 2023 – Member of the $\pi$ excellence program committee.

- 2021 – 2023 Vice dean for examinations.
- 2021 – 2023 Member of the undergraduate teaching committee.
- 2019 – 2021 Chair of the prizes committee.
- 2016 – 2019 Chair of undergraduate studies and undergraduate teaching committee.
- 2015 – 2019 Member of the undergraduate teaching committee.
- 2015 – 2019 Coordinator of excellent students.
- 2015 – 2020 Department representative in the faculty council of EE.
- 2013 – 2014 Chair of graduate studies (at Math Dept. Ben-Gurion University).

## 9. Public professional activities

### 9.1. **Editorial positions.**

(1) **Banach Journal of Mathematical Analysis** (Duke University Press/Springer), 2016 – 2020.

### 9.2. **Scientific reviews.**

(1) I have been a reviewer for **Mathematical Reviews** and **Zentralblatt Math**.
(2) Reviewer for grant applications:
  - Israel-US Binational Science Foundation (BSF)
  - Natural Sciences and Engineering Research Council of Canada (NSERC).
  - National Science Center, Poland.
(3) Referee/advisor for the journals:
  - Annals of Mathematics
  - Acta Mathematica
  - Advances in Mathematics
  - Mathematische Annalen
  - Memoirs of the American Mathematical Society
  - Transactions of the American Mathematical Society
  - Proceedings of the American Mathematical Society
  - Journal of the London Mathematical Society
  - Proceedings of the London Mathematical Society
  - Bulletin of the London Mathematical Society
  - International Mathematics Research Notices
  - Mathematische Zeitschrift
  - Forum of Mathematics, Sigma
  - Compositio Mathematica
  - Israel Journal of Mathematics
  - Journal d'Analyse Mathématique
  - Journal of Functional Analysis
  - Foundations of Computational Mathematics
  - Journal of Operator Theory
  - Journal of Mathematical Analysis and Applications
  - Canadian Journal of Mathematics
  - Linear Algebra and its Applications
  - Canadian Mathematical Bulletin
  - Studia Mathematica
  - Journal of the Australian Mathematical Society
  - Integral Equations and Operator Theory
  - Indiana University Mathematics Journal
  - Experimental Mathematics
  - Acta Scientiarum Mathematicarum
  - Publications of the Research Institute for Mathematical Sciences
  - Annales Polonici Mathematici
  - Complex Analysis and Operator Theory
  - Houston Journal of Mathematics
  - New York Journal of Mathematics
  - Colloquium Mathematicum
  - Operators and Matrices
  - American Mathematical Monthly
  - Infinite Dimensional Analysis, Quantum Probability and Related Topics
  - Journal of the Korean Mathematical Society

- Proceedings - Mathematical Sciences
- Banach Journal of Mathematical Analysis
- Advances in Operator Theory
- Rendiconti del Circolo Matematico di Palermo
- International Journal of Mathematics and Mathematical Sciences
- Journal of Inequalities and Applications

### 9.3. Theses committees.

(1) Maxim Gurevich, MSc. Mathematics (Technion), November 6, 2011.
(2) Alon Kipnis, MSc. Mathematics (BGU), June 7, 2012.
(3) Joav Orovitz, MSc. Mathematics (BGU), January 15, 2013.
(4) Guy Salomon, MSc. Mathematics (BGU), October 22, 2013.
(5) Tidhar Sariel, MSc. Mathematics (BGU), December 1, 2013.
(6) Leonid Helmer, PhD. Mathematics (Technion), August 6, 2014.
(7) Michael Wernet, PhD. Mathematics (University of Saarland), August 2014.
(8) Malte Gerhold, PhD. Mathematics (Greifswald University), December 2014.
(9) Eli Shamovich, PhD. Mathematics (BGU), July 2015.
(10) S.P. Murugan, PhD. Mathematics (Chennai Mathematical Institute), 2019.
(11) Joav Orovitz, PhD. Mathematics (BGU), 2019.
(12) Marina Prokhorova, PhD. Mathematics (Technion), September 2020.
(13) Motke Porat, PhD. Mathematics (BGU), October 2020.
(14) Naseem Baransi, MSc. Mathematics (Haifa University), November 2021.
(15) Amit Bengiat, MSc. Mathematics (BGU), January 2023.
(16) Jonathan Nurielyan, MSc. Mathematics (BGU), January 2024.
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## 10. Membership in professional societies

- Member of the Israeli Mathematical Union, 2012–.
- Member of the European Mathematical Union, 2012–.
- Member of the American Mathematical Society, 2012–2015.

## 11. Fellowships, awards, and honors

2003 The Promotion of Excellence in Mathematics Prize, Technion
2005 The Haim Hanani Prize, Technion
     The Szego Excellent Teaching Assistant Prize, Technion
2006 The Jacobs Qualcom Fellowship/Gutwirth Prize, Technion
2007 The Pollak Fellowship, Technion
2008 The Promotion of Excellence in Mathematics Prize, Technion
2010 The Elisha Netanyahu Prize, Technion

## 12. Graduate students and supervisees

### 12.1. Current students.

(1) Yasin Watted (PhD, 2021–)
(2) Mikhail Mironov (MSc, 2022–)
(3) Ran Kiri (PhD, 2022–)
(4) Zuly Salinas (PhD, 2023)

## 12.2. **Completed theses.**

(1) Adam Dor-On, 2013, MSc. thesis, "Cuntz-Pimsner Algebras and Subproduct Systems from Stochastic Matrices", Ben-Gurion University (primary supervisor: Daniel Markiewicz).
(2) Alexander Vernik, 2014, MSc. thesis, "Dilations of CP Maps Commuting According to a Graph", Ben-Gurion University.
(3) David Cohen, 2014, MSc. thesis, "Dilations of Matrices", Ben-Gurion University.
(4) Guy Salomon (Clore Scholarship, Wolf Prize receipient, Netanyahu Prize), 2019, PhD. thesis, "Operator Algebras of Directed Graphs and Noncommutative Varieties".
(5) Ran Kiri, 2022, MSc. thesis, "Finitely Generated Matrix Convex Sets and Classification of Operator Systems Generated by Λ-Commuting Unitaries", Technion.

## 12.3. **Undergraduate/early graduate short term research students.**

(1) Alexander Vernik (Summer 2012, "Dekalim" program, Ben-Gurion University).
(2) Chaim Cesrak, Amichai Lampert and Ameer Kassis (Summer Projects in Math, Technion, September 2016).
(3) Mattya Ben-Efraim and Yuval Yifrach (Summer Projects in Math, Technion, September 2018).
(4) Matan Gibson and Ofer Israelov (Summer Projects in Math, Technion, September 2019).
(5) Danny Ofek and Gilad Sofer (Summer Projects in Math, Technion, September 2020).
(6) Tom Waknine (Research Project in Math (course), Technion, Spring 2022).

## 13. Sponsored long-term visitors and post-doctoral associates

## 13.1. **Postdocs.**

(1) Sourav Pal (2012–2014).
(2) Evgenios Kakariadis (2013–2014).
(3) Panchugopal Bikram (2013–2014).
(4) Eli Shamovich (2015–2017).
(5) Benjamin Passer (2016–2018).
(6) James Rout (2017–2018).
(7) Malte Gerhold (2018–2019).
(8) Satish Pandey (2018–2021).
(9) Marina Prokhorova (2020–2022).
(10) Jeet Sampat (2022–).

## 14. Research grants

(1) ISF (Israel Science Foundation) Research Grant No. 474/12, Principal Investigator, 680,000 ILS (2012–2016).
(2) GIF (German-Israel Fund) Young Research Grant No. 2297-2282.6/201, Principal Investigator, 90,000 ILS (2013).
(3) European Union Marie-Curie CIG Grant No. 321749, Principal Investigator, 445,000 ILS (2012–2016).
(4) The Gerald Schwartz & Heather Reisman Foundation (Waterloo-Technion), Principal Investigator jointly with Ken Davidson and Baruch Solel, 115,000 ILS (2015–2016).
(5) ISF (Israel Science Foundation) Workshop Grant No. 2238/16 (for partial funding of the workshop MVOT at the Technion, June 2017), 67,000 ILS.
(6) ISF (Israel Science Foundation) Research Grant No. 195/16, Principal Investigator, 920,000 ILS (2016–2020).

(7) ISF (Israel Science Foundation) Workshop Grant No. 3111/20 (for partial funding of the workshop NCAT at the Technion, June 2021), 70,000 ILS.
(8) ISF (Israel Science Foundation) Research Grant No. 431/20, Principal Investigator, 920,000 ILS (2020–2024).

## 15. Scientific publications

### 15.1. Theses.

(1) O.M. Shalit, "Guided Dynamical Systems and Applications to Functional and Partial Differential Equations", Msc. Thesis, 2005. Supervisor: Boris Paneah.
(2) O.M. Shalit, "Product Systems, Subproduct Systems, and Dilation Theory of Completely Positive Semigroups", PhD. Thesis, 2009. Supervisor: Baruch Solel.

### 15.2. Books.

#### 15.2.1. *Monographs and textbooks.*

(1) O.M. Shalit, "A First Course in Functional Analysis", CRC Press, 240 pages, 2017.
(2) O.M. Shalit, "A Second Course in Functional Analysis", CRC Press, forthcoming.

#### 15.2.2. *Edited books.*

(1) Editor (together with Joseph Ball) of the Section "Multivariable Operator Theory" in **Operator Theory**, 2nd Edition, Springer References, Springer, to appear 2025.

### 15.3. Chapters in books.

(1) O.M. Shalit, *Operator theory and function theory in Drury-Arveson space and its quotients*, in **Operator Theory**, Springer References, Springer, 1125–1180, 2015. DOI: 10.1007/978-3-0348-0667-1.

### 15.4. Papers in professional peer reviewed journals (publishd/accepted).

(1) O.M. Shalit, *On the Overdeterminedness of a Class of Functional Equations*, **Aequationes Math.** 74:3 (2007), 242–248.
(2) O.M. Shalit, *$E_0$-dilation of strongly commuting $CP_0$-semigroups*, **J. Funct. Anal.** 255:1 (2008), 46–89. (Corrigendum appeared in Vol. 258, No. 3 (2010), 1068-1069).
(3) O.M. Shalit, *What type of dynamics arise in $E_0$-dilations of commuting quantum Markov semigroups?*, **Infin. Dimens. Anal. Quantum Probab. Relat. Top.** 11:3 (2008), 393–403.
(4) E. Levy and O.M. Shalit, *Continuous extension of a densely parameterized semigroup*, **Semigroup Forum** 78:2 (2009), 276–284.
(5) O.M. Shalit and B. Solel, *Subproduct systems*, **Doc. Math.** 14 (2009), 801–868.
(6) O.M. Shalit, *Conjugacy of P-configurations and nonlinear solutions to a certain conditional Cauchy equation*, **Banach J. Math. Anal.** 3:1 (2009), 28–35.
(7) O.M. Shalit, *Representing a product system representation as a contractive semigroup and applications to regular isometric dilations*, **Canad. Math. Bull.** 53 (2010), 550–563.
(8) D. Markiewicz and O.M. Shalit, *Continuity of CP-semigroups in the point-strong topology*, **J. Operator Theory** 64:1 (2010), 149–154.
(9) O.M. Shalit, *E-dilation of strongly commuting CP-semigroups (the nonunital case)*, **Houston J. Math.** 35:1 (2011), 203–232.
(10) O.M. Shalit, *Stable polynomial division and essential normality of graded Hilbert modules*, **J. Lond. Math. Soc.** 83:2 (2011), 273–289.
(11) O.M. Shalit and M. Skeide, *Three commuting, unital, completely positive maps that have no minimal dilation*, **Integral Equations Operator Theory** 71:1 (2011), 55–63.

(12) K.R. Davidson, C. Ramsey and O.M. Shalit, *The isomorphism problem for some universal operator algebras*, **Adv. Math.** 228 (2011), 167–218.

(13) O.M. Shalit, *Three remarks on a question of Aczél*, **Aequationes Math.** 84:3 (2012), 201–205.

(14) M. Kennedy and O.M. Shalit, *Essential normality and the decomposability of algebraic varieties*, **New York J. Math.** 18 (2012), 877–890.

(15) J.E. M$^c$Carthy and O.M. Shalit, *Unitary N-dilations for tuples of commuting matrices*, **Proc. Amer. Math. Soc.** 141 (2013), 563–571.

(16) M. Kerr, J.E. M$^c$Carthy and O.M. Shalit, *On the isomorphism question for complete Pick multiplier algebras*, **Integral Equations Operator Theory** 76:1 (2013), 39–53.

(17) E. Levy and O.M. Shalit, *Dilation theory in finite dimensions: the possible, the impossible and the unknown*, **Rocky Mountain J. Math.** 44:1 (2014), 203–221.

(18) S. Pal and O.M. Shalit, *Spectral sets and distinguished varieties in the symmetrized bidisc*, **J. Funct. Anal.** 266:9 (2014), 5779–5800.

(19) K.R. Davidson, M. Hartz and O.M. Shalit, *Multipliers of embedded discs*, **Complex Anal. Oper. Theory** 9 (2015), 287–321 (Erratum appeared in Vol. 9, 323–327).

(20) K.R. Davidson, C. Ramsey and O.M. Shalit, *Operator algebras for analytic varieties*, **Trans. Amer. Math. Soc.** 367:2 (2015), 1121–1150.

(21) M. Kennedy and O.M. Shalit, *Essential normality, essential norms and hyperrigidity*, **J. Funct. Anal.** 268:10 (2015), 2990–3016.

(22) J.E. McCarthy and O.M. Shalit, *Spaces of Dirichlet series with the Complete Pick property*, **Israel J. Math.** 220:2 (2017), 509–530.

(23) K.R. Davidson, A. Dor-On , O.M. Shalit and B. Solel, *Dilations, inclusions of matrix convex sets, and completely positive maps*, **Int. Math. Res. Not. IMRN.**, 2017:13 (2017), 4069–4130.

(24) S. Biswas and O.M. Shalit, *Stable division and essential normality: the non-homogeneous and quasi homogeneous cases*, **Indiana Univ. Math. J.** 67:1 (2018), 169–185.

(25) B. Passer, O.M. Shalit and B. Solel, *Minimal and maximal matrix convex sets*, **J. Funct. Anal.** 274 (2018), 3197–3253.

(26) G. Salomon, O.M. Shalit and E. Shamovich, *Algebras of bounded noncommutative analytic functions on subvarieties of the noncommutative unit ball*, **Trans. Amer. Math. Soc.** 370:12 (2018), 8639–8690.

(27) E.T.A. Kakariadis and O.M. Shalit, *On operator algebras associated with monomial ideals in noncommuting variables*, **J. Math. Anal. Appl.** 472:1 (2019), 738–813.

(28) B. Passer and O.M. Shalit, *Compressions of compact tuples*, **Linear Algebra Appl.** 564 (2019), 264–283.

(29) G. Salomon, O.M. Shalit and E. Shamovich, *Algebras of noncommutative functions on subvarieties of the noncommutative ball: the bounded and completely bounded isomorphism problem*, **J. Funct. Anal.** 278 (2020), 108427.

(30) M. Gerhold and O.M. Shalit, *Dilations of q-commuting unitaries*, **Int. Math. Res. Not. IMRN.** (2020), rnaa093, https://doi.org/10.1093/imrn/rnaa093.

(31) M. Gerhold and O.M. Shalit, *On the matrix range of random matrices*, **J. Operator Theory** 85:2 (2021), 527–545.

(32) D. Ofek, S. Pandey and O.M. Shalit, *Distance between reproducing kernel Hilbert spaces and geometry of finite sets in the unit ball*, **J. Math. Anal. Appl.** 500:2 (2021), 125140.

(33) M. Gerhold, S. Pandey, O.M. Shalit and B. Solel, *Dilations of unitary tuples*, **J. Lond. Math. Soc.** 104:5 (2021), 2053–2081

(34) M. Hartz, S. Richter and O.M. Shalit, *von Neumann's inequality for row contractive matrix tuples*, **Math. Z.** 301 (2022), 3877–3894.

(35) O.M. Shalit and M. Skeide, *CP-Semigroups and Dilations, Subproduct Systems and Superproduct Systems: the Multi-Parameter Case and Beyond*, **Dissertationes Math.** 585 (2023), 1–233.

(36) M. Gerhold and O.M. Shalit, *Bounded perturbations of the Heisenberg commutation relation via dilation theory*, **Proc. Amer. Math. Soc.** 151 (2023), 3949–3957.

(37) M. Hartz and O.M. Shalit, *Tensor algebras of subproduct systems and noncommutative function theory*, 20 pages, to appear in **Canad. J. Math.**

## 15.5. Refereed papers in conference proceedings.

(1) G. Salomon and O.M. Shalit, *The isomorphism problem for complete Pick algebras: a survey*, IWOTA July 2014, Amsterdam, **Oper. Theory Adv. Appl.**, Vol. 255. Birkhäuser, 166–198, 2016.

(2) O.M. Shalit, *Dilation theory: a guided tour*, IWOTA 2019, Lisbon, **Oper. Theory Adv. Appl.**, Vol. 282 Birkhäuser, 551–623, 2021.

## 15.6. Other publications.

(1) O.M. Shalit, *A sneaky proof of the maximum modulus principle*, **Amer. Math. Monthly**, Vol. 120, no. 4 (2013), 359–362.

## 15.7. Submitted papers.

(1) J. Sampat and O.M. Shalit, *On the classification of function algebras on subvarieties of noncommutative operator balls*, 41 pages, submitted.

(2) M. Gerhold and O.M. Shalit, *Dilation distance and the stability of ergodic commutation relations*, 17 pages, submitted.

## 16. Conferences

### 16.1. Invited plenary lecture series and minicourses in conferences/workshops

- Workshop and Summer School in Operator Theory, July 3–7, 2017, University of Athens.
- The 46th annual Canadian Operator Symposium (COSy), June 4–8, 2018, University of Manitoba, Canada.
- Conference on Noncommutative Geometry and its Applications, January 6–10, 2020, National Institute of Science Education and Research (NISER) Bhubaneswar, India.
- Masterclass in Operator Algebras: "Dilation and Classification in Operator Algebra Theory", October 17–21,2022, University of Copenhagen.
- Noncommutative Function Theory and Free Probability, April 28–May 4, 2024, Mathematisches Forschungsinstitut Oberwolfach (MFO).
- Multivariable Operator Theory, Conference in Honor of John McCarthy's 60th Birthday, June 10–14, 2024, St. Louis, Missouri, USA.

### 16.2. Invited plenary talks

- Great Plains Operator Theory Symposium, May 18–22, 2011, Arizona State University.
- International Workshop on Operator Theory and its Applications, July 20–26, 2014, VU University, Amsterdam (semi-plenary talk).
- International Workshop on Operator Theory and its Applications, July 18–22, 2016, Washington University in St.-Louis.
- International Workshop on Operator Theory and its Applications, July 22–26, 2019, University of Lisbon (semi-plenary talk).

### 16.3. Invited talks in conferences/workshops
- Product Systems and Independence in Quantum Dynamics, February 15–21, 2009, Oberwolfach.
- Non-commutative Dynamics and Quantum Probability, May 15–17, 2010, Regina.
- Multivariate Operator Theory, August 15–20, 2010, BIRS, Banff.
- Product Systems and Independence in Quantum Dynamics, March 14–18, 2011, Greifswald.
- Recent Advances in Operator Theory and Operator Algebras, December 31, 2012 – January 11, 2013, Indian Statistical Institute, Bangalore.
- Conferences on Noncommutative Geometry and Multivariable Operator Theory, July 8–13, 2013 (in honour of R. Douglas's 75th birthday), Fudan University, Shanghai.
- Hilbert Modules and Complex Geometry, April 20–26, 2014, Oberwolfach.
- Complex Geometry and Operator Theory (in honour of G. Misra's 60th birthday), December 1–3, 2015, Indian Statistical Institute, Bangalore.
- Recent Advances in Operator Theory and Operator Algebras, December 13–22, 2016, Indian Statistical Institute, Bangalore.
- Operator Theory (in honour of A. Feintuch's retirement), March 22–24, 2017, Sde Boker.
- Workshop and Summer School in Operator Theory, July 3–7, 2017, University of Athens.
- Developments and Technical Aspects of Free Noncommutative Functions, June 10–14, 2019, Fields Institute.
- Multivariable Operator Theory and Function Spaces in several Variables, August 1–6, 2021, BIRS-CMO. [Online]
- Workshop on Drury-Arveson Space, in: "Focus Program on Analytic Function Spaces and Their Applications", November, 2021, Fields Institute. [Online]

### 16.4. Invited talks in special sessions
- Annual meeting of the Israel Mathematical Union, May 29–30, 2008, Ashkelon.
- Canadian Mathematical Society Winter Meeting, December 5–9, 2009, Windsor.
- American Mathematical Society Joint Math Meeting, January 10–13, 2018, San-Diego.
- American Mathematical Society Joint Math Meeting, January 16–19, 2019, Baltimore.
- International Workshop on Operator Theory and its Applications (IWOTA), (special session on Analysis and Algebraic Geometry for Operator Variables) July 22–26, 2019, University of Lisbon.
- Annual meeting of the Israel Mathematical Union, July 6, 2021, Beer-Sheva.
- International Workshop on Operator Theory and its Applications (IWOTA), (special sessions: (1) Operator Space Techniques in Operator Algebras, (2) Functional Calculus and Spectral Constants), September 6–10, 2022, Krakow, Poland.
- Annual meeting of the Israel Mathematical Union, September 19, 2022, Beer-Sheva.
- Annual meeting of the Israel Mathematical Union, September 3, 2023, Weizmann Institute.

### 16.5. Invited participation in workshops
- Multivariate Operator Theory, April 5–10, 2015, BIRS, Banff.
- C*-algebras, August 11–17, 2019, Oberwolfach.

### 16.6. Contributed presentations in conferences/meetings
- Noncommutative Dynamics and Applications, July 16–20, 2007, Fields Institute.
- Great Plains Operator Theory Symposium, June 17–22, 2008, University of Cincinnati.
- Multivariate Operator Theory Workshop, August 10–14, 2009, Fields Institute.
- Canadian Operator Algebras and Operator Theory Symposium, June 7–11, 2010, Fredericton.
- Banach Algebras, August 3–10, 2011, University of Waterloo, Waterloo.
- Operator Theory and Operator Algebras, May 21–24, 2012, BGU, Beer-Sheva.
- IWOTA 2012, July 16–20, 2012, University of New South Wales, Sydney.

- Haifa Matrix Theory Conference, November 12–15, 2012, Technion, Haifa.
- The 48th Canadian Operator Symposium, May 25–29, 2020, Fields Institute, Toronto. [Online]

## 16.7. Colloquium talks
- Department of Pure Math Colloquium, March 1, 2010, University of Waterloo.
- Mathematics Department Colloquium, June 25, 2013, Ben-Gurion Univesity, Beer-Sheva.
- Department of Math Colloquium, August 29, 2013, Washington University in St. Louis.
- Faculty of Math Colloquium, October 26, 2015, Technion, Haifa.
- Mathematics Department Colloquium, April 12, 2016, Haifa University.
- Mathematics Department Colloquium, May 7, 2019, Ben-Gurion University, Beer-Seva.
- Department of Mathematics Colloquium, December 15, 2022, Saarland University, Saarbrucken.
- Mathematics Department Colloquium, March 12, 2024, Ben-Gurion University, Beer-Seva.

## 16.8. Participation in organizing conferences (main organizer)
- Operator Theory and Operator Algebras, Ben-Gurion University, May 21–24, 2012.
- Mini Conference in Operator Algebras, Ben-Gurion University, April 9–10, 2013.
- Multivariable Operator Theory (on occasion of Baruch Solel's 65th birthday), Technion, June 18–22 2017.
- Noncommutative Analysis at the Technion in Honour of Paul Muhly, Technion, June 2022.

## 16.9. Participation in organizing special sessions
- Special Session on Operator Algebras and Operator Theory (in the annual meeting of the Israel Mathematical Union), Technion, May 24, 2018.

## 17. Miscellaneous information

Married + 7.

Author of the blog *Noncommutative Analysis* (https://noncommutativeanalysis.wordpress.com).

Scientific editor of the Hebrew translation of the book: *The Poincaré Conjecture: in Search of the Shape of the Universe*, by Donal O'Shea (Arie Nir Publishing House, Tel-Aviv, 2008).

Instructor and supervisor of four students in the Technion's international summer camp SciTech 2004. Topic: *Cauchy and Pexider's Functional Equations in Restricted Domains*.

2022–2023 : Participant in the "Campus Leaders" program at the Technion.

1996–2000 : Army service (2000–2016, 2023– active reserves ("Miluim") service).

1995–1996 : Volunteer service year ("Shnat Sherut").