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 PhD in Mathematics, Technion, Haifa, Israel. Advisor: Baruch Solel.

2003–2005 MSc in Mathematics (*summa cum laude*), Technion, Haifa, Israel. Advisor: Boris Paneah

2000–2003 BS in Mathematics (*summa cum laude*), Technion Haifa, Israel

3. Academic appointments

2024 – Professor, Faculty of Mathematics, Technion.
2018 – 2024 Associate Professor, Faculty of Mathematics, Technion.
2014 – 2018 Assistant Professor, Faculty of Mathematics, Technion.
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 Image Processing Department, Rafael. *Image matching and navigation.*
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.
- Completely positive maps, operator spaces, and C*-correspondences.
- Hilbert function spaces of analytic functions and their multiplier algebras.
- Multivariable operator theory and nonselfadjoint operator algebras.

Date: October 23, 2026.

6. Teaching experience

I've taught courses in linear algebra, all levels of calculus and advanced calculus, ODEs, PDEs, Fourier analysis, probability theory, undergraduate and graduate courses in functional analysis, advanced complex function theory and several complex variables, as well as "topics courses" in reproducing kernel Hilbert spaces, operator theory, operator algebras and von Neumann algebras.

(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, [**service**], 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 and Fourier Analysis (104273), undergraduate [**new course+design**], Technion (Spring 2023, Spring 2026, Spring 2027).
(26) Seminar in Operator Theory (106426), undergraduate/graduate.
(27) Undergraduate Seminar in Analysis (104218), undergraduate, Technion (Fall 2024).
(28) Complex Function Theory 2 (106395), graduate, Technion (Spring 2025).
(29) Hedva 1T (104012), undergraduate, [**service**], Technion (Summer 2025, Summer 2026).
(30) Probability Theory (104222), undergraduate, Technion (Spring 2026).

7. Technion activities

- 2023 – 2026 Member of the standing committee for academic studies.
- 2025 – 2026 Chair of the Technion Faculty Association audit committee.

8. Departmental activities

- 2025 – Member of the preparatory committee, Math Department, GTIIT.
- 2025 – Member of the hiring committee.
- 2024 – Member of the preparatory committee.
- 2023 – 2026 Member of the π 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. **Scientific committees and networks.**

(1) 2026–2030: Member of the Management Committee, COST Action CA25104, *European Researchers in Complex Analysis Network* (EuReCA-Net), representing Israel.

9.2. **Editorial positions.**

(1) Acta Sci. Math. (Springer), 2026 –.
(2) Infin. Dimens. Anal. Quantum Probab. Relat. Top. (World Scientific), 2025 –.
(3) Banach J. Math. Anal. (Duke University Press/Springer), 2016 – 2020.

9.3. **Scientific reviews.**

(1) I have been a reviewer for **Mathematical Reviews** and **Zentralblatt Math**.
(2) I have reviewed book proposals for Chapman & Hall/CRC Press.
(3) Reviewer for grant applications:
    - Israel-US Binational Science Foundation (BSF)
    - Natural Sciences and Engineering Research Council of Canada (NSERC).
    - National Science Center, Poland.
(4) Referee/advisor for the journals:
    - Annals of Mathematics
    - Inventiones mathematicae
    - Acta Mathematica
    - Advances in Mathematics
    - Mathematische Annalen
    - Journal of the European Mathematical Society
    - Memoirs of the American Mathematical Society
    - Communications in Mathematical Physics
    - IEEE Transactions on Signal Processing
    - Journal für die reine und angewandte Mathematik
    - Compositio Mathematica
    - Journal of Functional Analysis
    - Transactions of the American Mathematical Society
    - Transactions of the London 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
- Mathematische Nachrichten
- Forum of Mathematics, Sigma
- Analysis & PDE
- Israel Journal of Mathematics
- Journal d'Analyse Mathématique
- Revista Matemática Iberoamericana
- 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
- Contemporary Mathematics
- 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

9.4. **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.
(17) Piyasa Sarkar, PhD. Mathematics (The Institute of Mathematical Sciences, Chennai), August 2024.
(18) Matan Algrabli, MSc. Physics (Technion), August 2026.

(19) Snir Hordan, PhD. Mathematics (Technion), Fall 2026.

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.
- Member of Association for Mathematical Research, 2026–.

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) Ran Kiri (PhD, 2022–)
(2) Zuly Salinas (PhD, 2023–)
(3) David Masuda (MSc., 2025–)
(4) Yufan Zheng (MSc., 2025–), co-supervisor (primary supervisor: Antti Rasila, GTIIT).
(5) Shuliang Gao (MSc., 2025–), co-supervisor (primary supervisor: Antti Rasila, GTIIT).
(6) Yaotong Yuan (MSc., 2026–), co-supervisor (primary supervisor: Antti Rasila, GTIIT).
(7) Siqi Liu (MSc., 2026–), co-supervisor (primary supervisor: Antti Rasila, GTIIT).

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.
(6) Mikhail Mironov, 2024, MSc. thesis, "Hilbert Function Spaces and Multiplier Algebras of Analytic Discs", Technion.
(7) Yasin Watted, 2025, PhD thesis, "Deformations of Reproducing Kernel Hilbert Spaces on Homogeneous Varieties", Technion.

12.3. **Undergraduate/short term research students.**

(1) Alexander Vernik (Summer 2012,"Dekalim" program, Ben-Gurion University).
(2) Chaim Cesrak (Summer Projects in Math, Technion, September 2016).
(3) Amichai Lampert (Summer Projects in Math, Technion, September 2016).
(4) Ameer Kassis (Summer Projects in Math, Technion, September 2016).
(5) Mattya Ben-Efraim (Summer Projects in Math, Technion, September 2018).

(6) Yuval Yifrach (Summer Projects in Math, Technion, September 2018).
(7) Matan Gibson (Summer Projects in Math, Technion, September 2019).
(8) Ofer Israelov (Summer Projects in Math, Technion, September 2019).
(9) Danny Ofek (Summer Projects in Math, Technion, September 2020).
(10) Gilad Sofer (Summer Projects in Math, Technion, September 2020).
(11) Tom Waknine (Research Project in Math, Technion, Spring 2022).
(12) Hava Granovsky (Research Project in Math, Technion, Spring 2026).

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 (2022–2024).
(11) Marcel Scherer (2025–)

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 (2020–2025).
(9) GTIIT Seed Grant, Principal Investigator joint with Anttii Rasila, 23,000 USD in total, (2026–2027).

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", Chapman & Hall/CRC Press, 2017.
(2) O.M. Shalit, "The Analyst's Gambit: A Second Course in Functional Analysis", Chapman & Hall/CRC Press, 2026.

15.2.2. *Edited books.*

(1) Editor (together with Joseph Ball) of the Section "Multivariable Operator Theory" in **Operator Theory**, 2nd Edition (Eds. Alpay, D., Sabadini, I., Colombo, F.), Springer References, Springer, 2026.

15.3. **Chapters in books.**

(1) O.M. Shalit, *Operator theory and function theory in Drury-Arveson space and its quotients*, in Alpay, D., Sabadini, I., Colombo, F. (eds) **Operator Theory**, Springer References, Springer, Basel, 1125–1180, 2015. DOI: 10.1007/978-3-0348-0667-1. (Revised and expanded version with M. Hartz, In: Alpay, D., Sabadini, I., Colombo, F. (eds) Operator Theory. Springer, Basel, 2025. DOI: 10.1007/978-3-0348-0692-3.)

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. McCarthy 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. McCarthy 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*, **Canad. J. Math.** 76 (2024), 1587–1608.
(38) J. Sampat and O.M. Shalit, *On the classification of function algebras on subvarieties of noncommutative operator balls*, **J. Funct. Anal.** 288 (2025), 110703.
(39) J. Sampat and O.M. Shalit, *Weak-$*$ and completely isometric structure of noncommutative function algebras*, **J. Math. Anal. Appl.** 550 (2025), 129552.
(40) O.M. Shalit and E. Shamovich, *A spectral radius for matrices over an operator space*, **Adv. Math.** 479 (2025), 110449.
(41) M. Gerhold, M. Scherer and O.M. Shalit. *Empirical bounds for commuting dilations of free unitaries and the universal commuting dilation constant*, 13 pages, **J. Exp. Math.**, to appear.

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) M. Gerhold and O.M. Shalit, *Dilation distance and the stability of ergodic commutation relations*, preprint, 20 pages.
(2) M. Scherer, O.M. Shalit and E. Shamovich, *On the spectral radius of operator tuples*, preprint, 36 pages.

16. Conferences

16.1. Invited mini-courses and lecture-series

- 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, 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 MFO, Oberwolfach.
- Multivariable Operator Theory, Conference in Honor of John McCarthy's 60th Birthday, June 10–14, 2024, St. Louis, Missouri, USA.

16.2. Invited plenary lectures

- Great Plains Operator Theory Symposium (GPOTS), 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 (IWOTA), July 18–22, 2016, Washington University in St.-Louis.
- International Workshop on Operator Theory and its Applications (IWOTA), July 22–26, 2019, University of Lisbon (semi-plenary talk).
- Canadian Operator Symposium (COSY), Conference in Honor of Ken Davidson, May 26–30, 2025, University of Waterloo, Canada.
- International Conference in Operator Theory, June 29–July 3, 2026, Timisoara, Romania.
- Recent Advances in Function and Operator Theory, Conference in Honor of Jan Stochel, 7–21 May 2027, Krakow, Poland.

16.3. Invited lectures

- Product Systems and Independence in Quantum Dynamics, February 15–21, 2009, MFO, 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, MFO, 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, Conference in Honour of Abie Feintuch, 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]
- NC Function Theory: The Non-Commutative Frontier of Analysis and Algebra, May 4–9, 2025, BIRS, Banff.
- Multivariable Operator Theory – A Hilbert Module Approach, December 8–12, 2025, Tsinghua Sanya International Mathematics Forum (TSIMF).
- Analysis Days V, Conference in Honor of Anatoly Golberg's 65th birthday, November 8 – 12, 2026, HIT, Israel.
- Non-commutative Function Theory: A Link between Operator Theory and Random Matrices, January 31 – February 5, 2027, MFO, Oberwolfach.

16.4. Invited lectures 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.
- International Workshop on Operator Theory and its Applications (IWOTA), (special sessions: (1) Multivariable Operator Theory, (2) Noncommutative Analysis and Ring Theory), August 6–10, 2026, Laval University, Quebec City, Canada.

16.5. Invited participation in workshops

- Multivariate Operator Theory, April 5–10, 2015, BIRS, Banff.
- C*-algebras, August 11–17, 2019, MFO, Oberwolfach.

16.6. Contributed lectures

- 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.

16.10. Participation in organizing seminars

- Organizer of the Operator Algebras and Operator Theory seminar and of the Israeli Noncommutative Analysis Seminar at Ben-Gurion University and then at the Technion throughout the years 2011–2026.

17. Miscellaneous information

Married + 7.

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

1996–2000 : Regular army service (2000–2016, 2023–2025 : active reserves service ("Miluim")).

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

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).

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

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

2024– : Volunteer, police and fire service.