

CURRICULUM VITAE AND LIST OF PUBLICATIONS

ORR MOSHE SHALIT

1. PERSONAL DETAILS

Name: Orr Moshe Shalit
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Date and place of birth: 09/02/1977, Tel-Aviv, Israel
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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.

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 and Fourier Analysis (104273), undergraduate [**new course+design**], Technion (Spring 2023, Spring 2026).
- (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, Technion (Summer 2025).
- (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

- 2023 – 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. Editorial positions.

- (1) **Banach Journal of Mathematical Analysis** (Duke University Press/Springer), 2016 – 2020.
- (2) **Infinite Dimensional Analysis, Quantum Probability and Related Topics (IDAQP)** (World Scientific), 2025 –.

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
 - Inventiones mathematicae
 - Acta Mathematica
 - Advances in Mathematics
 - Mathematische Annalen
 - Journal of the European Mathematical Society
 - Memoirs of the American Mathematical Society
 - 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
 - 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.
- (17) Piyasa Sarkar, PhD. Mathematics (The Institute of Mathematical Sciences, Chennai), August 2024.

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 Qualcomm 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) Yufan Zheng (MSc., 2025–), co-supervisor (primary supervisor: Antti Rasila, GTIIT).
- (4) Shuliang Gao (MSc., 2025–), co-supervisor (primary supervisor: Antti Rasila, GTIIT).
- (5) David Masuda (MSc., 2025–)

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 recipient, 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 Wattad, 2025, PhD thesis, “Deformations of Reproducing Kernel Hilbert Spaces on Homogeneous Varieties”, 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 Kassir (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 (2022–2024).
- (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 (2020–2024).

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”, 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, 2025.

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 (published/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.

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*, 17 pages, submitted.

- (2) M. Gerhold, M. Scherer and O.M. Shalit. *Empirical bounds for commuting dilations of free unitaries and the universal commuting dilation constant*, 12 pages, submitted.

16. CONFERENCES

16.1. Invited plenary lecture-series and minicourses

- 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 lectures

- 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).
- The 53rd Canadian Operator Symposium (COSy), in honor of Ken Davidson, May 26–30, 2025, University of Waterloo, Canada.

16.3. Invited lectures

- 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]
- 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).

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.

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 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 University, 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, Saarbrücken.
- 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 high school 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, 2023–2025 active reserves (“Miluim”) service).

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