

June 29, 2026

Baruch Solel

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Technion-Israel Institute of Technology
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Curriculum Vitae

Date and place of birth: 24 June 1952, Israel
Marital status: married + 3

Academic Degrees

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|---------|-------|---|
| 1973-76 | B.Sc. | (with distinction) in Pure Mathematics
from Tel-Aviv University, Tel-Aviv, Israel |
| 1976-77 | M.Sc. | (with distinction) in Pure Mathematics
from Tel-Aviv University, Tel-Aviv, Israel
Thesis: "Linear functionals on C^* -algebras".
Advisor: Professor A. Lazar |
| 1977-81 | Ph.D. | in Pure Mathematics
from the University of Pennsylvania, Philadelphia, USA.
Thesis: "Irreducible triangular algebras."
Advisor: Professor Richard V. Kadison |

Academic Appointments

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|-------------|---|
| 2020- | Technion, Israel: Professor Emeritus |
| 1997- 2020 | Technion, Israel: Professor |
| 1990-97 | Technion, Israel: Associate Professor |
| 1990 | University of Haifa, Israel: Associate Professor |
| 1989-90 | University of North Carolina, Charlotte: Associate Professor |
| 1987-89 | University of Haifa, Israel: Senior Lecturer |
| 1985-86 | University of Pennsylvania: Lecturer |
| 1983-85 | Dalhousie University, Halifax, Canada: Postdoctoral Fellow |
| 1981-83 | Tel-Aviv University: Postdoctoral Fellow |
| 1977-81 | University of Pennsylvania: Teaching Assistant |
| Summer 1976 | Weizmann Institute, Israel: Research student |
| 1975-77 | Tel-Aviv University: Teaching mathematics in the preparatory school |

Teaching Experience

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|---------|---|
| 1977-81 | University of Pennsylvania, USA: Calculus, Linear Algebra |
| 1981-83 | Tel-Aviv University: Calculus, Differential Equations |
| 1983-85 | Dalhousie University: Calculus, Linear Algebra |
| 1985-86 | University of Pennsylvania, USA: Advanced Calculus, Linear Algebra, Algebra |

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|------------|--|
| 1987-89 | University of Haifa: Complex Analysis, Functional Analysis.
Linear Algebra, Calculus, Advanced Calculus, Measure Theory,
Operator Algebras (graduate) |
| 1989-90 | University of North Carolina, Charlotte: Calculus, Complex Analysis |
| 1990- 2020 | Technion, Israel: Linear Algebra, Complex Analysis, Calculus, Topology,
Functional Analysis, Operator Algebras (graduate), Harmonic Analysis (graduate),
Algebra (Rings and Modules), Measure Theory |

Invited Talks at International Conferences

1. *NSF-CMS Conference on Analyticity in Operator Algebras*, Lubbock, Texas, 1983. "The Invariant Subspace Structure of Analytic Cross Products."
2. *Great Plains Operator Theory Seminar*, Ames, Iowa, 1984. "Analytic Operator Algebras."
3. *The 12th Canadian Symposium on Operator Theory*, Halifax, Canada, 1984. "Analytic Operator Algebras."
4. *The 13th Canadian Symposium on Operator Theory*, Saskatoon, Canada, 1985. "Subdiagonal Algebras."
5. *The Conference on Algebras of Operators and Physical Mathematics*, Iowa City, Iowa, 1985. "Subdiagonal Algebras."
6. *Asymetric Algebras Conference*, Indiana, USA, 1986, Indiana, USA, 1986. "Coordinates in Triangular Algebra."
7. *The Annual Meeting of the Canadian Mathematical Society*, Ottawa, Canada, 1987. "Coordinates in Analytic Operator Algebras."
8. *Matrix Theory Conference*, Technion, Haifa, Israel, 1988. "Isometries of Operator Algebras."
9. *AMS Summer Institute on Operator Theory Operator Algebras*, New Hampshire, USA, 1988. "Analytic Operator Algebras."
10. *AMS Regional Meeting*, Muncie, Indiana, 1989. "Triangular Operator Algebras."
11. *Great Plains Operator Theory Seminar*, Albuquerque, NM, USA, 1989. "Isometries of Operator Algebras."
12. *NSF-CBMS Conference on Operator Algebras*, Fort Worth, Texas, USA, 1989. "Distance Formula and Contractive Projections."
13. *Operator Theory/Operator Algebras Conference*, Cork, Ireland, 1991. "Isometries of CSL Algebras."
14. *Workshop on Operator Theory*, Beer-Sheva, Israel, 1992. "Dilations and Commutant Lifting."
15. *AMS Annual Meeting*, San Antonio, TX, 1993. "Hilbert Modules over Triangular Algebras."

16. *Functional Analysis Conference*, College Station, TX, 1994. “Hilbert Modules and Partial Orders.”
17. *C*-algebras and their Invariants*, Cork, Ireland, 1995. “Tensor Algebras of Operator Algebras.”
18. *Operator Theory Conference*, Timisoara, Romania, 1996. “The Simplicity of Some Cuntz-Pimsner Algebras.”
19. *Aegean Conference on Operator Algebras (NATO ASI)*, Samos, Greece, 1996. “Operator Algebras over C^* -correspondences” (2 talks; main speaker).
20. *Operator Algebras*, Shanghai, China, 1997. “On some simple c^* -algebras.”
21. *GPOTS 99*, Ames, Iowa, 1999. “Morita equivalence of operator algebras.”
22. *Israeli Mathematical Union Annual Meeting*, Haifa, Israel, 2000. “Completely positive maps on von Neumann algebras.”
23. *SUMIFRAS 2000*, College Station, TX, 2000. “Dilations of completely positive maps.”
24. *GPOTS 2001*, Durham, New Hampshire, 2001. “Isometries of Hilbert c^* -modules.”
25. *Advances in Quantum Dynamics*, Mt. Holyoke, MA, June 2002. “Quantum Markov processes.”
26. *Workshop on Nonselfadjoint Operator Algebras*, Toronto, Canada, July 2002. “Duality of W^* -correspondences and a noncommutative Nevanlinna-Pick Theorem.”
27. *INFAS*, Des Moines, Iowa, October 2002. “The index and curvature of completely positive maps.”
28. *Workshop on Dilations, Endomorphism Semigroups and their Classification by Product Systems*, Greifswald, Germany, June 2003. “Duality of C^* -correspondences and applications.”
29. *Workshop on Operator Theory, System Theory and Scattering Theory*, Beer Sheva, Israel, July 2003. “Duality of Correspondences and a Non Commutative Nevanlinna-Pick Theorem.”
30. *BIRS Workshop: Coordinate methods in Nonselfadjoint Operator Algebras*, Banff, Canada, December 2003. “Hardy algebras associated with W^* -correspondences.”
31. *GPOTS 2004*, College Station, Texas USA, May 2004. “ CP -semigroups and product systems.”
32. *Operator Algebras and Random Matrices Conference*, Ambleside, UK, July 2004. “Hardy algebras associated with W^* -correspondences.”
33. *Workshop on Operator Theory, System Theory and Scattering Theory*, Ben Gurion University, Beer Sheva, Israel, June 2005. “Duality of correspondences and non-commutative Nevanlinna-Pick theorem.”

34. *Workshop on Recent Advances in Operator Theory and Operator Algebras*, Indian Statistical Institute, Bangalore, India, December 2005. “Quantum Markov semigroups (product systems and subordination)”.
35. *Conference on Operator Algebras and Topology*, Moscow, Russia, January 2007. “Schur class operator functions and automorphisms of the Hardy algebras”.
36. *Characteristic Functions and Transfer Functions in Operator Theory and System Theory*, Ben Gurion university, Beer Sheva, Israel, July 2007. “Operator Algebras Associated with Unitary Commutation relations”.
37. *Workshop on Noncommutative Dynamics and Applications*, Fields Institute, Toronto, Canada, July 2007. “Operator Algebras Associated with Unitary Commutation Relations”.
38. *Banach Algebras 2009*, Bedlewo, Poland, July 2009. “Operator algebras and subproduct systems”.
39. *Operator Algebras and Related Topics*, Beijing, China, July 2010. “Progress in Noncommutative Function Theory”.
40. *International Conference on Quantum Probability and Related Topics*, Bangalore, India, August 2010. “Representations of the Hardy Algebra associated with a W^* -correspondence”.
41. *Product Systems and Quantum Dynamics*, Greifswald, Germany, March 2011. “Noncommutative Function Theory”.
42. *Function Theory and Operator Theory: Infinite dimensional and Free Settings*, Beer Sheva, Israel, June 2011. “Operator Algebras associated with Unitary Commutation Relations”.
43. *Banach Algebras and Applications 2011*, Waterloo, Canada, August 2011. “Noncommutative Function Theory” (one of the main speakers).
44. *Joint Polish-Israeli Mathematical Meeting*, Lodz, Poland, September 2011. “Noncommutative Hardy Algebras”.
45. *Joint Mathematics Meeting*, Boston, USA, January 2012. “Noncommutative Hardy Operator Algebras”.
46. *Recent advances in Operator Theory and Operator Algebras*, Bangalore, India, January 2013. “Tensorial Function Theory”.
47. *Banach Algebras and Applications 2013*, Gateborg, Sweden, August 2013. “Hardy Algebras, Berezin Transforms and Taylor-Taylor Series”.
48. *Joint Mathematics Meeting*, Baltimore, USA, January 2014. “Matricial Families and Weighted Shifts”.
49. *Hilbert Modules and Complex Geometry*, Oberwolfach, Germany, April 2014. “Tensor Algebras and Weighted Shifts”.
50. *IWOTA 2014*, Amsterdam, Holland, July 2014. “Matricial Functions and Weighted Shifts”.

51. *INFAS 2014* , Des Moines, USA, October 2014, “Matricial Functions and Weighted Shifts”.
52. *Recent Advances in Operator Theory and Operator Algebras* , Bangalore, India, December 2014, “Matricial Families and Weighted Shifts”.
53. *Joint Mathematics Meeting* , San Antonio, USA, January 2015. “Matricial families and weighted shifts”.
54. *The 26th international conference on operator theory* , Timisoara, Romania, June-July 2016. “Matrix convex sets, dilations and CP maps”.
55. *Operator Theory Workshop* , Sde Boker, Israel, March 2017. “Matrix convex sets, dilations and CP maps”.
56. *Multivariable Operator Theory* , Haifa, Israel, June 2017. “Noncommutative Hardy algebras”.
57. *IWOTA 2018* , Shanghai, China, July 2018. “Minimal and maximal matrix convex sets”.
58. *OTOA 2018* , Bangalore, India, December 2018. “Homomorphisms of noncommutative Hardy algebras”.
59. *Focus program on applications of noncommutative functions* , Fields Institute, Toronto, Canada , June 2019. “Matricial reproducing kernel correspondences”.
60. *IWOTA 2019*, Lisbon, Portugal, July 2019. “Homomorphisms of noncommutative Hardy algebras” and “Matricial reproducing kernel correspondences”.
61. *WOTOA 2020*, Bangalore, India , December 2020. “Invariant subspaces for certain tuples of operators”
62. *GPOTS 2021*, St. Louis, USA, May 2021, “Weighted Cuntz algebras”.
63. *IMU 2021* , Israel, July 2021, “Invariant subspaces for certain tuples of operators”
64. *IWOTA 2021*, Lancaster, England, August 2021, “Weighted Cuntz-Krieger algebras” and “Invariant subspaces for certain tuples of operators”.
65. *IWOTA 2022*, Krakow, Poland, September 2022, “Function theory and W^* -categories”.
66. *ICSOAA2023*, Marrakesh, Morocco, “Function theory and W^* -categories”.
67. *IMU 2024*, Israel, September 2024, “Weighted Cuntz-Krieger algebras”.
68. *IWOTA 2024*, Kent, England, August 2024, “Function theory and W^* -categories” and “Isometric dilations for representations of product systems”.

Membership in Scientific and Professional Associations

- Israel Mathematical Union
- American Mathematical Society

Public Professional Activities

- On the editorial board of Annals of Functional Analysis.
- A reviewer for "Mathematical Reviews", American Mathematical Society
- A referee for research journals (Transactions AMS, Proceedings AMS, Journal of Functional Analysis and others)
- A reviewer for NSF, ISF, BSF and NSERC proposals
- Organizer of an international conference on Operator Algebras. (At the Technion, May 1993.)
- Member of the Program Committee. IMU Meeting 2003.
- Organizer of a session on operator algebras in the Joint Polish-Israeli Mathematical Meeting, 2011.

Activities in the Department:

- Chairman of the Library Committee of the Mathematical Department (1995–1996)
- Students' adviser
- Member of the Departmental Preparatory Committee (Vaada Mechina)(1997-)
- Chairman of the Committee of Graduate Studies (1998–2000)
- Director of the Center for Mathematical Research (2002–2005)
- Member of the "Advisory Committee to the Chairman" (2005–2007)
- Chairman (2007-2009)

Activities at the Technion:

- Chairman of the Disciplinary Court for Students (1999-2002, 2012 - 2014)
- Member of the Senate Preparatory Committee for Appointments and Promotions (2002-2004)
- Senate Member (2007-2009, 2011-2014)
- Member of the Steering Committee of the Senate (2011-2014)
- Member of the Departmental Preparatory Committee (Vaada Mechina) of the department of scientific and technological education (Oct. 2013 - Dec. 2014).
- Member of the Senate Promotions Committee for non-tenured faculty (2018 -)
- Member of the Senate Committee for Academic Affairs (2018 -).
- Judge in the appeal court for students at the Technion.

Prizes, Awards

- An award for a distinguished Ph.D. thesis (Society of Sigma XI, the University of Pennsylvania), 1981.
- The Margaret Mosenfelder Harris Chair in Mathematics (2012-2020)

LIST OF PUBLICATIONS

Ph.D Thesis: “Irreducible Triangular Algebras” (has been published as
Memoir # 290 of the American Mathematical Society)

Original papers in professional journals, with referees

1. B. Solel, On derivations of certain algebras related to irreducible triangular algebras, *Trans. Amer. Math. Soc.* **277** (1983), 263-273.
2. B. Solel, The invariant subspace structure of non-selfadjoint crossed products, *Trans. Amer. Math. Soc.* **279** (1983), 825-840
3. B. Solel, *Irreducible triangular algebras*, Memoirs, Amer. Math. Soc. #290 (1984), 87 pp.
4. B. Solel, Some subalgebras of a von Neumann algebra crossed product, *Trans. Amer. Math. Soc.* **281** (1984), 297-308.
5. B. Solel, The multiplicity functions of invariant subspaces for nonselfadjoint crossed products, *Pacific J. Math.* **113** (1984), 201-214.
6. B. Solel, Invariant subspaces for algebras of analytic operators associated with a periodic flow on a finite von Neumann algebra, *J. Funct. Anal.* **58** (1984), 1-19.
7. B. Solel, Analytic operator algebras (factorization and an expectation), *Trans. Amer. Math. Soc.* **287** (1985), 799-817.
8. B. Solel, Nonselfadjoint crossed products: Invariant subspaces, cocycles and subalgebras, *Indiana Univ. Math. J.* **34** (1985), 277-298.
9. B. Solel, Algebras of analytic operators associated with a periodic flow on a von Neumann algebra, *Canad. J. Math.* **37** (1987), 405-429.
10. D. Larson and B. Solel, Nests and inner flows, *J. Operator Theory* **16** (1986), 157-164.
11. P.S. Muhly, K.S. Saito and B. Solel, Coordinates for triangular operator algebras, *Ann. Math.* **127** (1988), 245-278.
12. B. Solel, Factorization in operator algebras, *Proc. Amer. Math. Soc.* **102** (1988), 613-618.
13. B. Solel, Distance formula for analytic operator algebras, *Bull. London Math. Soc.* **20** (1988), 345-349.
14. B. Solel, Maximality of analytic operator algebras, Israel. *J. Math.* **62** (1988), 63-89.
15. D. Larson and B. Solel, Bimodules of nest subalgebras of von Neumann algebras, *Operator Theory: Advances and Appl.*, vol. 32 (Ed.I. Gohberg). Birkhauser Verlag, Basel (1988), 159-180.

16. B. Solel, Coordinates for analytic operator algebras, *Glasgow Math. J.* **31** (1989), 31-47.
17. B. Solel, Cocycles and factorization in analytic operator algebras, *J. Operator Theory* **20** (1988), 295-310.
18. P. Muhly, K.S. Saito and B. Solel, Coordinates for triangular operator algebras II, *Pacific J. Math.* **137** (1989), 335-360.
19. J. Arazy and B. Solel, Isometries of non-self-adjoint algebras, *J. Funct. Anal.* **90** (1990), 284-305.
20. P. Muhly and B. Solel, Dilations for representations of triangular algebras, *Bull. London Math. Soc.* **21** (1989), 489-495.
21. P. Muhly and B. Solel, Representations of chordal subalgebras of von Neumann algebras, *Hokkaido Math. J.* **18** (1989), 263-271.
22. P. Muhly and B. Solel, Subalgebras of groupoid C^* -algebras, *J. Für die Reine und Ang. Math.* **402** (1989), 41-75.
23. P. Muhly and B. Solel, On triangular subalgebras of groupoid C^* -algebras, *Israel J. Math.* **71** (1990), 257-274.
24. P. Muhly and B. Solel, Distance formulae in coordinatized operator algebras, *Quart. J. Math. Oxford*, (2), **43** (1992), 73-95.
25. P. Muhly and B. Solel, A lifting theorem for analytic crossed products, *Houston J. Math.* **18** (1992), 153-166.
26. P. Muhly, C. Qiu and B. Solel, Coordinates, nuclearity and spectral subspaces in operator algebras, *J. Oper. Theory.* **26** (1991), 313-332.
27. B. Solel, Contractive projections onto bimodules of von Neumann algebras, *J. London Math. Soc.* **45** (1992), 169-179.
28. B. Solel, Applications of the asymptotic range to analytic subalgebras of groupoid c^* -algebras, *Erg. Th. and Dyn. Sys.* **12** (1992), 341-358.
29. B. Solel, Isometries of CSL algebras, *Trans. Amer. Math. Soc.* **332** (1992), 595-606.
30. P. Muhly and B. Solel, Hilbert modules and partial orders, *C.R. Acad. Sci. Paris* **316** (1993), 1187-1191.
31. L. Mastrangelo, P. Muhly and B. Solel, Locating the radical of a triangular operator algebra, *Proc. Cambridge Phil. Soc.* **115** (1994), 27-38.
32. P. Muhly, C. Qiu and B. Solel, On isometries of operator algebras, *J. Func. Anal.* **119** (1994), 138-170.
33. P. Muhly and B. Solel, Dilations and commutant liftings for subalgebras of groupoid c^* -algebras, *Inter. J. Math.* **5** (1994), 87-123.
34. B. Solel and B. Ventura, Analyticity in triangular UHF algebras, *J. Oper. Theory* **28** (1992), 357-370.

35. P.S. Muhly and B. Solel, Hilbert modules over operator algebras, *Memoirs Amer. Math. Soc.* **559** (1995).
36. P.S. Muhly and B. Solel, Representations of triangular subalgebras of groupoid c^* -algebras, *J. Australian Math. Soc.* **61** (1996), 289-321.
37. P.S. Muhly and B. Solel, Automorphism groups and invariant subspace lattices, *Trans. Amer. Math. Soc.* **349** (1997), 311-330.
38. P.S. Muhly and B. Solel, On the uniqueness of operator algebra structures, *Ind. Univ. Math. J.* **46** (1997), 575-591.
39. D.R. Larson and B. Solel, Structured TAF algebras, *Proc. London Math. Soc.* **(3)75** (1997), 177-193.
40. P.S. Muhly and B. Solel, An algebraic characterization of boundary representations, *Oper. Thy: Adv. and Appl.* **104** (1998), 189-196.
41. P.S. Muhly and B. Solel, Tensor algebras over C^* -correspondences, *J. Funct. Anal.* **158** (1998), 389-457.
42. P.S. Muhly and B. Solel, The simplicity of some Cuntz-Pimsner algebras, *Math. Scand.* **83** (1998), 53-73.
43. P.S. Muhly and B. Solel, Tensor algebras, induced representations and the Wold decomposition, *Canad. J. Math.* **51** (1999), 850-880.
44. P.S. Muhly and B. Solel, On quotients of tensor algebras and their c^* -envelopes, *Proc. Edinburgh Math. Soc.* **43** (2000), 361-377.
45. P.S. Muhly and B. Solel, On the Morita equivalence of tensor algebras, *Proc. London Math. Soc.* **81** (2000), 113-168.
46. A.P. Donsig, A. Hopenwasser, T. Hudson, M. Lamoureux and B. Solel, Meet irreducible ideals in direct limit algebras, *Math. Scand.* **87** (2000), 27-63.
47. B. Solel, Isometries of Hilbert C^* -modules, *Trans. Amer. Math. Soc.* **353** (2001), 4637-4660.
48. P.S. Muhly and B. Solel, Quantum Markov processes (correspondences and dilations), *Int. J. Math.* **13** (2002), 863-906.
49. P.S. Muhly and B. Solel, The curvature and index of completely positive maps, *Proc. London Math. Soc.* **87** (2003), 748-778.
50. D. Blecher and B. Solel, A double commutant theorem for operator algebras, *J. Operator Theory* **51** (2004), 435-453.
51. B. Solel, You can see the arrows in a quiver operator algebra, *J. Aust. Math. Soc.* **77** (2004), 111-122.
52. P.S. Muhly and B. Solel, Hardy algebras, W^* -correspondences and interpolation theory, *Math. Ann.* **330** (2004), 353-415.

53. B. Solel, Limit C^* -algebras associated with an automorphism, *Math. Scand.* **95** (2004), 101–123.
54. P.S. Muhly and B. Solel, Canonical models for representations of Hardy algebras, *Int. Eq. Op. Theory* **53** (2005), 411–425.
55. B. Solel, Representations of product systems over semigroups and dilations of commuting CP maps, *J. Funct. Anal.* **235** (2006), 593–618.
56. P.S. Muhly, M. Skeide and B. Solel, Representations of $B^a(E)$, *Inf. Dim. Anal. Quantum Prob. and Related Topics* **9** (2006), 1–20.
57. D. W. Kribs and B. Solel, Bunce–Deddens graph algebras, *J. Austr. Math. Soc.* **82** (2007), 345–368.
58. P. S. Muhly and B. Solel, Quantum Markov semigroups (product systems and subordination), *Int. J. Math.* **18** (2007), 633–669.
59. P. S. Muhly and B. Solel, Schur class operator functions and automorphisms of Hardy algebras, *Documenta Math.* **13** (2008), 365–411.
60. B. Solel, Regular Dilations of Representations of Product Systems, *Math. Proc. R. Irish Acad.* **108A** (2008), 89–110.
61. P. S. Muhly and B. Solel, The Poisson Kernel for Hardy Algebras, *Complex Analysis and Operator Theory* **3** (2009), 221–242.
62. O. Shalit and B. Solel, Subproduct systems, *Documenta Math.* **14** (2009), 801–868.
63. S. C. Power and B. Solel, Operator algebras associated with unitary commutation relations, *J. Funct. Anal.* **260** (2011), 1583–1614.
64. P. S. Muhly and B. Solel, Morita transforms of tensor algebras, *New York J. Math.* **17a** (2011), 87–100.
65. P. S. Muhly and B. Solel, Representations of Hardy Algebras: Absolute Continuity, Intertwiners, and Superharmonic Operators, *Integral Equations and Operator Theory* **70** (2011), 151–203.
66. P. S. Muhly and B. Solel, Absolute continuity, interpolation and the Lyapunov order, *Integral Equations and Operator Theory* **72** (2012), 91–101.
67. P. S. Muhly and B. Solel, Tensorial Function Theory: From Berezin Transforms to Taylor’s Taylor Series, *Integral Equations and Operator Theory* **76** (2013), 463–508.
68. Paul S. Muhly and Baruch Solel, Matricial Function Theory and Weighted Shifts, *Integral Equations and Operator Theory* **84** (2016), 501–553.
69. Kenneth R. Davidson, Adam Dor-On, Orr M. Shalit and Baruch Solel, Dilations, Inclusions of Matrix Convex Sets and Completely Positive Maps , *International Mathematics Research Notices IMRN* **13** (2017), 4069 - 4130.
70. Ben Passer, Orr M. Shalit and Baruch Solel, Minimal and maximal matrix convex sets, *J. Funct. Anal.* **274** (2018), 3197–3253.

71. Erin Griesenauer, Paul S. Muhly, and Baruch Solel, Boundaries, Bundles and Trace Algebras, *New York J. Math.* **24a** (2018), 136-154.
72. Baruch Solel, Invariant subspaces for certain tuples of operators with applications to reproducing kernel correspondences, *Integral Equations Operator Theory* **92** (2020), no. 4, Paper No. 38, 22 pp.
73. G. Malte, S. K. Pandey, O. Shalit and B. Solel, Dilations of unitary tuples, *J. London Math. Soc.* **104** (2021), 2053- 2081.
74. L. Helmer and B. Solel, Weighted Cuntz algebras, *J. Operator Theory* **87** (2022), 83-111.
75. P. S. Muhly and B. Solel, Function theory from tensor algebras, *Complex Anal. Oper. Theory* **16** (2022), no. 6, Paper No. 92, 34 pp.
76. L. Helmer and B. Solel, Weighted Cuntz-Krieger algebras, *Integral Equations Operator Theory* **16** (2022), no. 4, Paper No. 7, 43 pp.
77. S. Barik, M. Bhattacharjee and B. Solel, Isometric dilations for representations of product systems, *Proceedings of the Royal Soc. Edinburgh* (2024), 1-42.

Refereed Papers in Conference Proceedings

1. B. Solel, Analytic operator algebras, *Proceedings of Symposia in Pure Mathematics* **51** (1990), 519-530.
2. B. Solel, Distance formula and contractive projections, *Contemporary Math.* **120** (1991), 169-173.
3. P. Muhly, C. Qiu and B. Solel, Intrinsic isomorphism invariants for some triangular operator algebras, *Contemporary Math.* **120** (1991), 117-121.
4. B. Solel, Operator algebras over C^* -correspondences, Operator Algebras and Applications, NATO-ASI Series 495 (1997), 429-448.
5. P.S. Muhly and B. Solel, A model for quantum Markov semigroups, *Contemp. Math.* **335** (2003), 235-242.
6. P.S. Muhly and B. Solel, On the curvature of a completely positive map, "Operator Algebras, Quantization and Noncommutative Geometry", *Contemp. Math.* **365** (2004), 239-251.
7. P.S. Muhly and B. Solel, Hardy algebras associated with W^* -correspondences (point evaluation and Schur class functions), "Operator Theory, System Theory and Scattering Theory: Multidimensional Analysis", *Operator Theory Adv. Appl.* **157** (2005), 221-241.
8. P.S. Muhly and B. Solel, Duality of W^* -correspondences and applications, *QP-PQ Quantum Probability and White Noise Analysis* vol. **XVIII** (2005), 396-414.
9. P. S. Muhly and B. Solel, Extensions and dilations for C^* -dynamical systems, "Operator Theory, Operator Algebras, and Applications", *Contemp. Math.* **414** (2006), 375-381.
10. P. S. Muhly and B. Solel, Progress in noncommutative function theory, *Science China Math.* **54** (2011), 2275-2294.

Research Grants

1. The Fund for Basic Research (Israel Academy of Sciences and Humanities), 1982-1983.
2. United States - Israel Binational Science Foundation, 1990-1993. Grant Number 88-00385.
3. The Fund for Joint Research Technion-University of Haifa, 1994 (with J. Arazy).
4. United States - Israel Binational Science Foundation, 1995-1998. Grant Number: 94-00014
5. United States - Israel Binational Science Foundation, 2000-2003, Grant Number 1999931.
6. United States - Israel Binational Science Foundation, 2007-2011.
7. United States - Israel Binational Science Foundation, 2011-2015.
8. Waterloo-Technion Cooperation Program, 2015-2016.

Graduate Students

Miron Spiegel	M.Sc. 1993 Thesis Title: "Isometries of Operator Algebra".
Igor Fulman	Ph.D. 1995 Thesis Title: "Crossed products of operator algebras by equivalence relations".
Miron Spiegel	Ph.D. 1997 Thesis Title: "Ideals in analytic crossed products".
Aviv Censor	M.Sc. 2001 Thesis Title: "Lie ideals in nest algebras".
Aviv Censor	Ph.D. 2007 (Principal Advisor: Prof. Aljadeff) Thesis Title: "Taking Groupoid C*-algebras to the Limit " .
Oded Talker	M.Sc. 2009 Thesis Title: "Wold decomposition for commuting row isometries".
Orr Shalit	Ph.D. 2009 Thesis Title: "Product systems, subproduct systems and dilation theory of completely positive semigroups".
Leonid Helmer	Ph.D. 2014 Thesis title: "Factorizations and reflexivity in noncommutative Hardy algebras".
Maxim Gurevich	M.Sc. 2011 Thesis Title: "Ideals in noncommutative Hardy algebras and subproduct systems".

Postdoctoral Fellows

Daniel Markiewicz	2005 - 2007
Ami Viselter	2009 - 2011
Adam Dor-On	2017-2018
Ben Passer	2017-2018
Sibaprasad Barik	10/23 - 10/24
Mansi Suryawanshi	3/25-