David Peter Blecher

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EDUCATION

1985 - 1988	Ph.D, University of Edinburgh, Scotland
1984 - 1985	MASt (Master of Advanced Study) Cambridge University, England
1980 - 1983	B.Sc.(Hons), University of the Witwatersrand

MISCELLANY

Research Area	Functional analysis, operator algebras, operator theory
Nationality	USA (Born in Britain)
Awards	University of Houston Award for Excellence in Research and Scholarship (1996)

ACADEMIC POSITIONS

2000-	Professor, University of Houston, Department of Mathematics
2018	Invited visitor, Max Planck Institute Bonn, May.
1995-2000	Associate Professor, University of Houston
1999	Visiting Professor, Institut Henri Poincare, Paris (September-October)
1991 - 1993	Visiting Adj. Asst. Professor/NSF Postdoc, University of California, Berkeley
Spring 1992	Visiting Asst. Professor University of Missouri, Columbia, Missouri
1989 - 1995	Asst. Professor, University of Houston
1988-1989	Visiting Asst. Professor, University of Houston

Editorial boards

Associate Editor, Journal of Mathematical Analysis and Applications (2008-) Impact factor 1.3.

Editor, Houston Journal of Mathematics (2010-)

Citations

Over 110 papers and books.

Citations google scholar 3851, MathScinet 2068, as of 2024.

RESEARCH GRANTS

Continuous NSF support as PI or CoPI 1991–2016 (latest NSF grant listed below).

(Continued on next page)

NSF	PI, Noncommutative analysis etc, DMS 2154903, 2022–2026.
Simons Foundation Collabora- tive grant	PI, Noncommutative function theory and operator algebras, 527078, \$42K, 2017–2024.
NSF	CO-PI, CUE Ethics: Collaborative Research: Integrating Secure and Ethical Computational Skills for STE \$ 109K, 2020–21 , Declined and resubmitted.
2016-2017 Minigrant (Math Dept):	Visiting Scholar (\$ 5000). PI's Blecher and Kalantar.
NSF	PI, Noncommutative function theory in operator algebras and operator spaces, DMS 1201506, \$86K, 2012-2016,
NSF	CO-PI (PI Paulsen), GPOTS 2011 and 2012, DMS1101654, \$25K, 2011-2013
NSF	PI, Noncommutative functional analysis, operator algebras, and operator spaces, DMS 0800674, \$80K, 2008-2011 (Support period extended for additional period)
NSF	PI, Structure in operator spaces and algebras, DMS 0400731, \$117,246, 2004-2007 (Support extended to 200
NSF	Co-PI with Paulsen, Papadakis, Operator algebras, operator spaces, frames and applications, \$174,000, 2000-2003 (Support extended to 2004)
NSF	Coinvestigator, PI's Canic and Dean, Research Experiences for Undergraduates, Topics in Geometry, Analysis, Number Theory and Numerical Analysis, \$60,000, 2000-2002
NSF	Co-PI with Paulsen, Operator algebras, modules and completely bounded maps, \$214,000, 1997-2000
NSF	Co-PI with Paulsen, Operator algebras and reproducing kernel Hilbert spaces, \$145,000, 1994-1997
NSF	Co-PI with Paulsen, Operator algebras and reproducing kernel Hilbert spaces, \$82,785, 1991-1993
NSF	Supported as postdoc, PI Paulsen, Operator algebras, \$82,785, 1989–1991

Department of Mathematics Minigrants (under \$10K): 2006, 2008.

BOOKS

- 1. OPERATOR ALGEBRAS AND THEIR MODULES AN OPERATOR SPACE APPROACH, (with C. Le Merdy), Oxford University Press (2004)
- 2. CATEGORIES OF OPERATOR MODULES MORITA EQUIVALENCE AND PROJECTIVE MODULES, (with P. S. Muhly and V. I. Paulsen). Memoirs Amer. Math. Soc. 681 (2000)
- 3. THE CALCULUS OF ONE-SIDED *M*-IDEALS AND MULTIPLIERS IN OPERATOR SPACES, (with V. Zarikian), Memoirs Amer. Math. Soc. 842 (2006).

CONFERENCE PROCEEDINGS¹

- 4. SOME APPLICATIONS OF A RECENT CHARACTERIZATION OF OPERATOR ALGEBRAS, In "Selfadjoint and Nonselfadjoint Operator Algebras and Operator Theory", Contemp. Math. 120 AMS (1991)
- 5. GENERALIZING GROTHENDIECK'S PROGRAM, In "Function Spaces", Lecture Notes in Pure and Applied Math. 136, Marcel Dekker (1992)
- 6. Some general theory of Operator Algebras and their modules, In "Operator Algebras and Applications", Nato ASI Series C, 495, Kluwer (1997).
- 7. COMPLETE ISOMETRIES AN ILLUSTRATION OF NONCOMMUTATIVE FUNCTIONAL ANALYSIS, (with D. Hay) Proceedings of 4th Conference on Function Spaces, Contemp. Math. **328**, Amer. Math. Soc. (2003)
- 8. ARE OPERATOR ALGEBRAS BANACH ALGEBRAS? In Banach Algebras and Their Applications, Contemp. Math. 363, Amer. Math. Soc. (2004)
- 9. MULTIPLIERS, C^{*}-MODULES, AND ALGEBRAIC STRUCTURE IN SPACES OF HILBERT SPACE OPERATORS, pp. 85-128 in "Operator Algebras, Quantization, and Noncommutative Geometry: A Centennial Celebration Honoring John von Neumann and Marshall H. Stone" Contemp. Math. 365, Amer. Math. Soc., 2004.
- 10. VON NEUMANN ALGEBRAIC H^p THEORY (with L. E. Labuschagne), Function Spaces: Fifth Conference on Function Spaces, Contemp. Math. Vol. 435, Amer. Math. Soc. (2007).
- 11. ON A GENERALIZATION OF W^* -MODULES, (with J. Kraus), Banach Center Publications 91 (2010), 77-86.
- 12. GENERALIZATION OF C*-ALGEBRA METHODS VIA REAL POSITIVITY FOR OPERATOR AND BANACH ALGEBRAS, pages 35–66 in "Operator algebras and their applications: A tribute to Richard V. Kadison", (ed. by R.S. Doran and E. Park), vol. 671, Contemporary Mathematics, American Mathematical Society, Providence, R.I. 2016.

REFEREED JOURNAL ARTICLES

- 13. GEOMETRY OF THE TENSOR PRODUCT OF C*-ALGEBRAS, Mathematical Proceedings of the Cambridge Philosophical Society **104** (1988), 119-127.
- 14. TRACIALLY COMPLETELY BOUNDED MULTILINEAR MAPS ON C*-ALGEBRAS, Journal of the London Mathematical Society (2) **39** (1989), 514-524.
- 15. A CHARACTERIZATION OF OPERATOR ALGEBRAS (with Z-J. Ruan and A. M. Sinclair), Journal of Functional Analysis 89 (1990), 288-301.
- 16. INVARIANT SUBSPACES OF AN OPERATOR ON $L^2(T)$ COMPOSED OF A MULTIPLICATION AND A TRANSLATION (with A. M. Davie,) Journal of Operator Theory 23 (1990), 115-123.
- 17. TENSOR PRODUCTS WHICH DO NOT PRESERVE OPERATOR ALGEBRAS, Mathematical Proceedings of the Cambridge Philosophical Society, **108** (1990), 395-403.
- 18. COMMUTATIVITY IN OPERATOR ALGEBRAS, Proceedings of the American Mathematical Society **109** (1990), 709-715.
- 19. TENSOR PRODUCTS OF OPERATOR SPACES (with V. I. Paulsen), Journal of Functional Analysis **99** (1991), 262-292.

 $^{^{1}}$ All but one of these was a refereed proceedings; many of these papers contain several new results which are unpublished elsewhere.

- 20. EXPLICIT CONSTRUCTION OF UNIVERSAL OPERATOR ALGEBRAS AND APPLICATIONS TO POLYNOMIAL FACTORIZATION (with V. I. Paulsen), *Proceedings of the American Mathematical Society* **112** (1991), 839-850.
- 21. THE STANDARD DUAL OF AN OPERATOR SPACE, Pacific Journal of Mathematics 153 (1992), 15-30.
- 22. TENSOR PRODUCTS OF OPERATOR SPACES II, Canadian Journal of Mathematics 44 (1992), 75-90.
- 23. THE DUAL OF THE HAAGERUP TENSOR PRODUCT (with R. R. Smith), Journal of the London Mathematical Society 45 (1992), 126-144.
- 24. A COMPLETELY BOUNDED CHARACTERIZATION OF OPERATOR ALGEBRAS, *Math. Annalen* **303** (1995), 227-239.
- 25. ON QUOTIENTS OF FUNCTION ALGEBRAS, AND OPERATOR ALGEBRA STRUCTURES ON l^p (with C. Le Merdy), Journal of Operator Theory **34** (1995), 315-346.
- 26. A GENERALIZATION OF HILBERT MODULES, Journal of Functional Analysis 136 (1996), 365-421.
- 27. A NEW APPROACH TO C^{*}-MODULES, Math Annalen **307** (1997), 253-290.
- 28. ON SELFDUAL HILBERT MODULES, p.65-80 in "Operator algebras and their applications", *Fields Institute Communications* vol. 13, A.M.S (1997).
- 29. CONTINUOUS FUNCTIONS ON COMPACT GROUPS, Proceedings of the American Mathematical Society 125 (1997), 1177-1185.
- 30. FACTORIZATIONS IN UNIVERSAL OPERATOR SPACES AND ALGEBRAS, Rocky Mountain Journal of Mathematics 27 (1997), 151-167.
- 31. MORITA EQUIVALENCE OF OPERATOR ALGEBRAS AND THEIR C^{*}-ENVELOPES, (with P. S. Muhly and Q. Na), Bulletin of the London Mathematical Society **31** (1999), 581-591.
- 32. MODULES OVER OPERATOR ALGEBRAS AND THE MAXIMAL C*-DILATION, Journal of Functional Analysis, 169 (1999), 251-288.
- 33. MULTIPLIERS OF OPERATOR SPACES AND THE INJECTIVE ENVELOPE, (with V. I. Paulsen) Pacific Journal of Math., 200 (2001), 1-17.
- 34. ON MORITA'S FUNDAMENTAL THEOREM FOR C*-ALGEBRAS, Mathematica Scandinavica 88 (2001), 137-153.
- 35. A MORITA THEOREM FOR ALGEBRAS OF OPERATORS ON HILBERT SPACE, Journal of Pure and Applied Algebra 156 (2001), 153-169.
- 36. ON FUNCTION AND OPERATOR MODULES, (with C. Le Merdy) Proceedings of the American Mathematical Society **129** (2001), 833-844.
- 37. THE SHILOV BOUNDARY OF AN OPERATOR SPACE AND THE CHARACTERIZATION THEOREMS, Journal of Functional Analysis 182 (2001), 280-343.
- 38. MULTIPLIERS AND DUAL OPERATOR ALGEBRAS, Journal of Functional Analysis. 183 (2001), 498-525.
- 39. ISOMORPHISMS OF FUNCTION MODULES AND GENERALIZED APPROXIMATION IN MODULUS (with K. Jarosz), Trans. Amer. Math. Soc. **354** (2002), 3663-3701.
- 40. ONE-SIDED M-IDEALS AND MULTIPLIERS IN OPERATOR SPACES. I. (With E. G. Effros and V. Zarikian.) Pacific Journal of Math., 206 (2002), 287-319.
- 41. LOGMODULARITY AND ISOMETRIES OF OPERATOR ALGEBRAS, (with L. E. Labuschagne), Trans. Amer. Math. Soc. **355** (2002), 1621-1646.

- 42. COMPLETE ISOMETRIES INTO C^* -ALGEBRAS, (with D. Hay), preprint 2002. (The main result is featured in the recent book by Fleming and Jamison "Isometries on Banach spaces", Chapman and Hall/CRC).
- 43. MULTIPLIER OPERATOR ALGEBRAS AND APPLICATIONS, (with V. Zarikian) Proceedings of the National Academy of Sciences of the U.S.A. **101** (2004), 727-731.
- 44. One-sided ideals and approximate identities in operator algebras, J. Australian Math. Soc. 76 (2004), 425-447.
- 45. THE IDEAL ENVELOPE OF AN OPERATOR ALGEBRA, (with M. Kaneda) Proc. Amer. Math. Soc. **132** (2004), 2103-2113.
- ONE-SIDED PROJECTIONS ON C*-ALGEBRAS. With Roger Smith and V. Zarikian. J. of Operator Theory 51 (2004), 201-220.
- 47. A DOUBLE COMMUTANT THEOREM FOR OPERATOR ALGEBRAS, (with B. Solel) J. of Operator Theory. 51 (2004), 435-453.
- DUALITY AND OPERATOR ALGEBRAS: AUTOMATIC WEAK* CONTINUITY AND APPLICATIONS, (with B. Magajna) Journal of Functional Analysis 224 (2005), 386-407.
- 49. DUALITY AND OPERATOR ALGEBRAS II: OPERATOR ALGEBRAS AS BANACH ALGEBRAS (with B. Magajna) Journal of Functional Analysis **226** (2005), 485-493.
- 50. ORDERED C*-MODULES, (with W. Werner) Proceedings of the London Mathematical Society **92** (2006), 682-712.
- 51. CHARACTERIZATIONS OF NONCOMMUTATIVE H^{∞} (with L. E. Labuschagne), Journal of Integral Equations and Operator Theory 56 (2006), 301-321.
- 52. OPEN PARTIAL ISOMETRIES AND POSITIVITY IN OPERATOR SPACES, (with M. Neal), Studia Math 182 (2007), 227-262.
- 53. ORDERED INVOLUTIVE OPERATOR SPACES (with K. Kirkpatrick, M. Neal, and W.Werner), Positivity 11 (2007), 497-510.
- 54. NONCOMMUTATIVE FUNCTION THEORY AND UNIQUE EXTENSIONS (with L. E. Labuschagne), Studia Math. 178 (2007), 177-195.
- 55. A BEURLING THEOREM FOR NONCOMMUTATIVE L^p (with L. E. Labuschagne), Journal of Operator Theory **59** (2008), 29-51.
- 56. HEREDITARY SUBALGEBRAS OF OPERATOR ALGEBRAS, (with D. M. Hay and M. Neal), Journal of Operator Theory **59** (2008), 333-357.
- 57. APPLICATIONS OF THE FUGLEDE-KADISON DETERMINANT: SZEGÖ'S THEOREM AND OUTERS FOR NONCOMMUTATIVE H^p (with L. E. Labuschagne), Trans. Amer. Math. Soc. **360** (2008), 6131–6147.
- 58. EXTENSIONS OF OPERATOR ALGEBRAS I AND II, Part I (with M. Royce) in J. Math. Analysis and Applns 339 (2008), 1451–1467. A version of II is available on request.
- 59. MORITA EQUIVALENCE OF DUAL OPERATOR ALGEBRAS, (with U. Kashyap), J. Pure and Applied Algebra **212** (2008), 2401-2412.
- A CHARACTERIZATION AND A GENERALIZATION OF W^{*}-MODULES, (with U. Kashyap), Trans. Amer. Math. Soc. 363 (2011), 345-363.

 NUCLEARITY-RELATED PROPERTIES FOR NONSELFADJOINT ALGEBRAS (with B. Duncan), J. Operator Theory 65 (2011), 47-70.

ERRATA TO NUCLEARITY-RELATED PROPERTIES FOR NONSELFADJOINT ALGEBRAS (with B. Duncan), J. Operator Theory **65** (2011), 471-473.

- 62. METRIC CHARACTERIZATIONS OF ISOMETRIES AND OF UNITAL OPERATOR SPACES AND SYSTEMS, (with Matthew Neal), Proc. Amer. Math. Soc. **139** (2011), 985-998.
- 63. DUAL OPERATOR SYSTEMS, (with B. Magajna), Bull. London Math. Soc. 43 (2011), 311–320.
- 64. OPERATOR ALGEBRAS WITH CONTRACTIVE APPROXIMATE IDENTITIES, (with Charles Read), J. Functional Analysis **261** (2011), 188-217.
- IDEALS AND STRUCTURE OF OPERATOR ALGEBRAS, (with M. Almus and S. Sharma) J. Operator Theory 67 (2012), 397–436.
- 66. OPEN PROJECTIONS IN OPERATOR ALGEBRAS I: COMPARISON THEORY, (with Matthew Neal), Studia Math **208** (2012), 117–150.
- 67. OPEN PROJECTIONS IN OPERATOR ALGEBRAS II: COMPACT PROJECTIONS, (with Matthew Neal), Studia Math **209** (2012), 203-224.
- IDEALS AND HEREDITARY SUBALGEBRAS OF OPERATOR ALGEBRAS, (with M. Almus and Charles Read), Studia Math 212 (2012), 65–93.
- 69. METRIC CHARACTERIZATIONS II, (with Matthew Neal), Illinois J. Math. 57 (2013), 25-41.
- 70. OPERATOR ALGEBRAS WITH CONTRACTIVE APPROXIMATE IDENTITIES II, (with Charles Read), J. Functional Analysis **264** (2013), 1049–1067.
- 71. NONCOMMUTATIVE PEAK INTERPOLATION REVISITED, Bull. London Math. Soc. 45 (2013), 1100-1106.
- 72. OUTERS FOR NONCOMMUTATIVE H^p REVISITED, (with L. E. Labuschagne), Studia Math. **217** (2013), 265-287.
- 73. OPERATOR ALGEBRAS WITH CONTRACTIVE APPROXIMATE IDENTITIES, III (with Charles Read), Preprint (2013). This paper has now been replaced by, and subsumed into, successors listed below.
- 74. ON POSITIVITY AND ROOTS IN OPERATOR ALGEBRAS, (with C. A. Bearden and S. Sharma), J. Integral Equations Operator Th. **79** (2014), 555-566.
- 75. FINITE GENERATION IN C*-ALGEBRAS AND HILBERT C*-MODULES, (with Tomasz Kania), Studia Mathematica **224** (2014), 143–151.
- 76. OPERATOR ALGEBRAS WITH CONTRACTIVE APPROXIMATE IDENTITIES: WEAK COMPACTNESS AND THE SPECTRUM (with Charles Read), J. Functional Analysis **267** (2014), 1837–1850.
- 77. Order theory and interpolation in operator algebras (with Charles Read), Studia Math. 225 (2014), 61–95.
- 78. OPERATOR ALGEBRAS WITH CONTRACTIVE APPROXIMATE IDENTITIES: A LARGE OPERATOR ALGEBRA IN c_0 (with Charles Read), Trans. Amer. Math. Soc. **368** (2015), 3243–3270. Published electronically: July 29, 2015.
- 79. REAL POSITIVITY AND APPROXIMATE IDENTITIES IN BANACH ALGEBRAS, (with Narutaka Ozawa), Pacific Journal of Mathematics **277** (2015), 1–59. DOI 10.2140/pjm.2015.277.1
- 80. COMPLETELY CONTRACTIVE PROJECTIONS ON OPERATOR ALGEBRAS, (with Matthew Neal), Pacific Journal of Mathematics 283-2 (2016), 289–324. DOI 10.2140/pjm.2016.283.289

- 81. ROOTS IN OPERATOR ALGEBRAS AND BANACH ALGEBRAS, (with Zhenhua Wang), J. Integral Equations Operator Theory 85 (2016), 63–90; DOI 10.1007/s00020-015-2272-z.
- UEDA'S PEAK SET THEOREM FOR GENERAL VON NEUMANN ALGEBRAS (with L. Labuschagne), Trans. Amer. Math. Soc. 370 (2018), 8215–8236.
- 83. QUANTUM MEASURABLE CARDINALS (with N. Weaver), J. Functional Analysis 273 (2017), 1870–1890.
- 84. RIGGED MODULES I: MODULES OVER DUAL OPERATOR ALGEBRAS AND THE PICARD GROUP (with U. Kashyap), J. Pure and Applied Algebra **221** (2017), 2827–2837.
- 85. RIGGED MODULES II: MULTIPLIERS AND DUALITY, Studia Math. 236 (2017), 85-100.
- OPERATOR *-CORRESPONDENCES IN ANALYSIS AND GEOMETRY, (with Jens Kaad and Bram Mesland), Proc. London Math Soc. 117 (2018), 303–344.
- 87. JORDAN OPERATOR ALGEBRAS: BASIC THEORY, (with Zhenhua Wang), Mathematische Nachrichten 291 (2018), 1629–1654.
- 88. NONCOMMUTATIVE TOPOLOGY AND JORDAN OPERATOR ALGEBRAS, (with Matt Neal), Mathematische Nachrichten **292** (2019), 481–510.
- L^p OPERATOR ALGEBRAS WITH APPROXIMATE IDENTITIES I, (with N. Christopher Phillips), Pacific J. Math. 303 (2019), 401–457.
- 90. THE HOFFMAN-ROSSI THEOREM FOR OPERATOR ALGEBRAS, (with Luis Flores and Beate Zimmer), J. Integral Equations Operator Theory, **91** (2019), Art. 17, 7 pp. DOI: 10.1007/s00020-019-2521-7.
- 91. INVOLUTIVE OPERATOR ALGEBRAS, (with Zhenhua Wang) Positivity 24 (2020), 13–53.
- 92. JORDAN OPERATOR ALGEBRAS REVISITED, (with Zhenhua Wang) Mathematische Nachrichten **292** (2019), 2129–2136.
- 93. ON VECTOR-VALUED CHARACTERS FOR NONCOMMUTATIVE FUNCTION ALGEBRAS (with L. Labuschagne), Complex analysis and operator theory 14 (2020), 1–30.
- 94. CONTRACTIVE PROJECTIONS AND REAL POSITIVE MAPS ON OPERATOR ALGEBRAS (with Matt Neal), Studia Math. 256 (2021), 21–60.
- 95. REAL POSITIVE MAPS AND CONDITIONAL EXPECTATIONS ON OPERATOR ALGEBRAS, p. 63–102 in *Positivity* and its applications, (Eds. E. Kikianty, M. Mabula, M. Messerschmidt, J. H. van der Walt, and M. Wortel), Trends in Mathematics, Birkhäuser (2021).
- 96. REAL OPERATOR ALGEBRAS AND REAL POSITIVE MAPS, (with W. Tepsan), J. Integral Equations Operator Theory, **90** (2021) no. 5, Paper No. 49. (34 pages)
- 97. VON NEUMANN ALGEBRA CONDITIONAL EXPECTATIONS WITH APPLICATIONS TO GENERALIZED REPRESENTING MEASURES FOR NONCOMMUTATIVE FUNCTION ALGEBRAS, (with Louis E. Labuschagne), 58 pages, Advances in Mathematics, **396** (2022), doi 10.1016/j.aim.2021.108104.
- 98. ABELIAN VON NEUMANN ALGEBRAS, MEASURE ALGEBRAS AND L^{∞} -SPACES, (with S. Goldstein and Louis E. Labuschagne), 61 pages, Expositiones Mathematicae **40** (2022), 758-818.
- 99. A NONCOMMUTATIVE BISHOP PEAK INTERPOLATION-SET THEOREM, Operators, Semigroups, Algebras and Function Theory, Operator Theory: Advances and Applications 292, Volume from IWOTA Lancaster 2021, Birkhauser Cham (2023).
- 100. REAL OPERATOR SPACES AND OPERATOR ALGEBRAS, Studia Math. 275 (2024), 1–40.

- 101. REAL STRUCTURE IN OPERATOR SPACES, INJECTIVE ENVELOPES AND G-SPACES, (with A. Cecco and M. Kalantar), J. Integral Equations Operator Theory (2024) 96:1 (27 pages), DOI: 10.1007/s00020-024-02766-7
- 102. OPERATOR SPACE COMPLEXIFICATION TRANSFIGURED, (with M. Kalantar), International Mathematics Research Notices (2024) (also on ArXiV as 30 page preprint), https://doi.org/10.1093/imrn/rnae026.
- 103. ON A CLASS OF ALGEBRAS GENERALIZING H^{∞} , (with L Labuschagne), Complex analysis and operator theory 3: 48 (2024), 24 pages, doi 10.1007/s11785-024-01490-9. arXiv:2409.00224.
- 104. M-IDEALS, YET AGAIN: THE CASE OF REAL JB*-TRIPLES, (with Matthew Neal; Antonio M. Peralta; Shanshan Su), 31 pages nt 2024 (arXiv:2401.05565), Rev. Real Acad. Cienc. Exactas Fis. Nat. Ser. A-Mat. (RACSAM)(Impact factor 1.8 as of around 2023). (2025) 119:23 (View pdf at https://rdcu.be/d4mLj)
- 105. Appendix to A CATEGORICAL APPROACH TO INJECTIVE ENVELOPES by A. Cecco, Annals of Functional Analysis (2024) 15:49, https://doi.org/10.1007/s43034-024-00350-z.
- 106. NULL PROJECTIONS AND NONCOMMUTATIVE FUNCTION THEORY IN OPERATOR ALGEBRAS, (with Raphaël Clouâtre), 39 page submitted preprint 2024 (arXiv:2404.04788).
- 107. M-IDEALS IN REAL OPERATOR ALGEBRAS, (with Matthew Neal; Antonio M. Peralta; Shanshan Su), Mathematische Nachrichten 298 (2025), 1328-1341, DOI:10.1002/mana.202400227 (2025) (ArXiV arXiv:2405.05383).
- 108. GEOMETRIC INFLUENCES ON QUANTUM BOOLEAN CUBES, (with Li Gao and Bang Xu), submitted preprint 2024 (36 pages), arXiv:2409.00224.
- 109. REAL OPERATOR SYSTEMS, (with Travis Russell), submitted preprint 2025 (53 pages), arXiv:2502.12126.
- 110. M-IDEALS: FROM BANACH SPACES TO RINGS, (with Amartya Goswami), arXiv:2504.14829.

Chapters in books (refereed)

111. Positivity in operator algebras and operator spaces, pp. 27-71 in *Positivity*, Trends in Mathematics series, Birkhauser (2007).

Recent Conferences Organized (others listed elsewhere below)

Co-organizer/Local Organizer Mini-workshop on the Cuntz semigroup University of Houston, June 18 - 20, 2018. Funded mainly by NSF (Leonel Robert PI).

Co-organizer special session on Operator spaces, quantized function theory and noncommutative Lp spaces, IWOTA 2020 (International Workshop on Operator Theory and its Applications), Lancaster University, UK. Co-organizer BIRS 5 day Workshop held in Granada Spain in 2026 (proposal in progress 2024, Non-associative algebras, Lead organizer I. Kaygorodov)

Internet disseminations:

- Noncommutative functional analysis for undergraduates. This can be downloaded from http://www.math.uh.edu/~dblecher/canisius.pdf
- Lectures on operator spaces and duality. This can be downloaded from http://www.math.uh.edu/~dblecher/op.pdf

INVITED PRESENTATIONS/LECTURE SERIES/ETC (1996-2023)

- 2025: BIRS workshop on Operator Systems and their Applications, February 2025, "Real operator systems". European Non-Associative Algebra Seminar, "Jordan operator algebras and beyond", March.
- 2024: Plenary talk, Banach Algebras and Operator Algebras 2024 (July). IWOTA special session on "Noncommutative Geometry and Operator Spaces" University of Kent, Canterbury, UK, August. Cancelled due to too much traveling. IWOTA special session on "Jordan algebra structures and Operator theory" University of Kent, Canterbury, UK, August. Operator Algebras in the UK conference (Newcastle, UK, June). Cancelled. Functional Analysis seminar (Newcastle, UK, June). Special session on "Noncommutative Geometry and Analysis" at the (IN-PERSON) AMS Sectional Meeting at the University of Texas, San Antonio, September 14-15, 2024. "Noncommutative function theory via projections", Baylor University Analysis seminar, September, 2024. "Real and complex structure, and beyond", Baylor University Colloquium, September, 2024. "When analysis implies algebra" Colloquium, University of Johannesburg, November 2024. "Real and complex structure, and beyond", Colloquium, NWU main campus November 21 2024. Colloquium, NWU main campus November 28 2024. Colloquia: NWU campuses at Maheking and Vanderbijlpark November 20 and 25, 2024. 20 minute talk, Special session on Functional Analysis and Operator Theory at Congress of the South African Mathematical Society (SAMS) December 2024.
- 2023: "Real operator spaces, complexification, and a generalization of complexification", Analysis Seminar, University of Delaware (December 2023).
 SUMIRFAS conference (2023 Summer Informal Regional Functional Analysis Seminar, 50 min invited talk), College Station, July 2023.
 50-minute research lecture at the "Concentration Week on Ideals and Algebras of Operators on Banach Spaces", College Station, July 2023.
- 2022: "Von Neumann measure algebras and expectation", Colloquium March, University of Georgia. "Real operator algebras and real positive maps", Colloquium August, NWU University (South Africa).
- 2021: Invited speaker in special session at IWOTA 2020 (International Workshop on Operator Theory and its Applications), Lancaster University, UK. Also co-organizer of a different special session on Operator spaces, quantized function theory and noncommutative Lp spaces, at the same conference. One hour colloquium talk, Focus Program on Analytic Function Spaces and their Applications at Fields Institute (November 2021). "Noncommutative integration and noncommutative function algebras", Functional analysis seminar, March, University of Georgia.
- 2020: Colloquium/C*-day series talk Baylor University February, Noncommutative linear analysis in quantized function theory.
 Several conferences, Colloquium, etc postponed due to Covid.
- 2019: Positivity X, Plenary speaker, July (South Africa). VOTCAM (Virginia Operator Theory and Complex Analysis Meeting), Full length (plenary talk) October at the University of Richmond. Analysis seminar, University of Virginia, November. Analysis seminar, University of Oregon, November.
- 2018: Co-organizer Mini-workshop on the Cuntz semigroup University of Houston, June 18 20. One hour invited workshop lecture "Operator space structure and noncommutative topology for Jordan Operator Algebras", Interactions between Operator Space Theory and Quantum Probability with Applications to Quantum Information, Workshop, Oberwolfach Germany, 6 May - 12 May. Invited visitor, Max Planck Institute Bonn, May 2018. Invited one hour talk University of Bonn, Germany May 2018.

2017: • Inaugural Brazos Analysis Seminar, March, Texas A & M, Full length invited conference talk.
• Applications of Model Theory to Operator Algebras, July 31 - August 4, 2017, University of Houston, 50 minute talk.

• East Coast Operator Algebras Symposium University of Louisiana at Lafayette, October. Full length invited talk.

• 45 minute talk in Analysis session at South African Mathematical Society congress November. Two generalizations of noncommutative topology.

- 2016: One hour workshop lecture plus invited full length conference talk at *Operator Spaces and NCG interaction*, Workshop, Oberwolfach Germany, February.
 - Invariant subspaces and Banach algebras conference, invited lecture, Leeds, England (September).

• Linear analysis seminar TAMU von Neumann algebraic Hardy spaces, quantum measure theory, and peak sets, September.

• *Quantum cardinals*, 30 minute talk at Texas Analysis and Mathematical Physics Symposium, Rice University, October.

• Five one hour workshop lectures, and full length invited conference talk at *Recent Advances in Operator Theory and Operator Algebras*, Indian Statistical Institute, Bangalore, December.

- 2015: The generalization of C*-algebra methods, AMS Special Session on Operator Algebras and Their Applications: A Tribute to Richard V. Kadison. January, San Antonio.
 - Colloquium, Noncommutative function algebraic topology, University of North Texas, March.
 - Banach Algebras and applications 2015, August, Fields Institute, Ontario (Plenary)
 - Generalizing positivity techniques in Banach and operator algebras, Seminar Baylor University October.
- 2014: Aspects of positivity for operator algebras, Special session on Banach and Operator Algebras over Groups, Fields Institute (Toronto), April-March 2014 (50 minute talk).

• Positivity and interpolation in noncommutative spaces and operator algebras, 7th Conference on Function Spaces, S. Illinois University Edwardsville (Plenary).

• Minicourse on Operator Spaces, Fields Institute, May 2014.

• Interpolation and order in operator algebras and Banach algebras, Summer Workshop in Analysis and Probability, Texas A & M University, Seminar talk, July 2014.

• Interpolating between Hilbert space operators, and real positivity for operator algebras, Canadian Annual Symposium on Operator Algebras and Their Applications (COSy), June Fields Institute (Plenary).

2013: • 29th Southeastern Analysis Meeting (special session talk) (Blacksburg, VA, March).

Seminar, Generalized invertibility and outers in noncommutative H^p spaces, University of Virginia (March). Noncommutative H^p spaces, Yorkshire Functional Analysis Group Seminar, Leeds (April, Leeds UK).
Colloquium, Prescribing behaviour of noncommutative functions on noncommutative subsets, (April, University of Warwick, UK).

• QOP network meeting (Banach and operator spaces), one of the plenary talks, (April, University of Lancaster, UK). Title: *Noncommutative peak interpolation: prescribing behaviour of noncommutative functions on noncommutative subsets.*

• Algebras of operators on a Hilbert space, (Invited) Aberdeen-Glasgow Operator Algebras Meeting, Aberdeen, Scotland, May.

• Arveson's von Neumann algebraic Hardy spaces, GPOTS (Great Plains Operator Theory Symposium) University of California, Berkeley (May).

• Operator algebras with contractive approximate identities, Linear analysis seminar, Texas A & M University (September).

• Colloquium University of Louisiana Lafayette, October.

- 2012: Organizing committee GPOTS 2012 (Houston.)
 - Organizing committee Operator Spaces, Quantum Probability and Applications, Wuhan (China) June 2012.

• Applications of a kind of positivity in operator algebras, Linear analysis seminar, Texas A & M University (September).

- 2011: AMS National meeting special session talk, *Operator algebras with contractive approximate identities*, New Orleans (January).
 - Banach Algebras 2011, August, Waterloo, Ontario (Plenary).
 - Colloquium, Matrices and the process of mathematical discovery, The Citadel (October).
 - Special session on Operator and Banach algebras, and non-commutative analysis, SAMS/AMS International congress, Port Elizabeth, South Africa (November–December).
 - SAMS/AMS Satellite meeting on abstract analysis, Pretoria, South Africa (December).
 - Colloquium, *Noncommutative topology and noncommutative function algebras*, Northwest University Potchefstroom, South Africa
- 2010: Colloquium, Duality for Spaces of Hilbert Space Operators, University of Virginia (March).
 - Seminar, Noncommutative Hp spaces and von Neumann algebras, University of Virginia (March).
 - Seminar, One-sided ideals and structure of operator algebras, SUNY Buffalo (April).
 - Noncommutative function theory and HSA's, Operator Spaces, Noncomm. L_p Spaces and Applns, BIRS, Banff (June-July, 2010)
- 2009: Banach Algebras 2009, Banach Center, Poland (Plenary).
 - Dual operator algebras and systems, Yorkshire Functional Analysis Group Seminar, Leeds, December.
 - Unital operator spaces and operator systems: metric characterization and duality, Seminar, Texas A & M University (March).
 - Analysis seminar, Leeds, U.K. (December).
- 2008: International Advisory Committee, International Conference on Operator Theory (Delhi Univ. India, January)
 - GPOTS (Great Plains Operator Theory Symposium) University of Cincinnatti (June).
 - West Coast Operator Algebras Seminar, Flagstaff (September) (Plenary).
 - Graduate student seminar, University of Houston (twice in 2008).
- 2007: GPOTS (Great Plains Operator Theory Symposium) University of Nebraska (Plenary).
 - CIRM Conference on Operator Spaces, Noncomm. L_p Spaces and Applns, Luminy, France, June (Plenary; also member of Scientific Organizing Committee).
 - Workshop on operator spaces and quantum groups, Fields Institute.
 - Operator spaces and operator algebras, Colloquium, North Dakota State University (October).
 - Banach Algebras 2007, Quebec City, Canada (Plenary).
 - Operator spaces and group algebras, Banff (August).
 - Noncommutative function theory, Colloquium, U. Texas at San Antonio (March).
- 2006: Duality for spaces of Hilbert space operators, Colloquium, East Carolina University (March).
 - Fifth Conference on Function Spaces, S. Illinois University Edwardsville (Plenary).
 - GPOTS (University of Iowa).
 - CARTHAPOS Workshop-Conference on Positivity, Carthage, Tunisia (Plenary).
 - International Workshop on Operator Theory and Applications (Seoul, Korea)
 - Lecture series, Seoul National University, Korea.
 - Recent Advances in Operator Algebras, Rome, Italy (Semi-plenary).
 - Von Neumann algebraic H^p theory, Linear Analysis Seminar Texas A & M November 2006.

2005: • Quantum methods in modern analysis, Ottawa (April) (Plenary).

- On the necessity of operator space methods, University of California Santa Barbara (May).
- Operator algebras, operator spaces, and noncomm. probability, Besancon France (June) (Plenary).
- West Coast Operator Algebras Seminar, Banff (September) (Plenary).
- 2004: Automatic weak* continuity and applications, Seminar, Texas A & M University (July).
 - Dual operator algebras: what they are, Seminar, Texas A & M University (September).
 - GPOTS (Texas A & M University) (Plenary).
 - REU lecture series "New Mathematical Topographies", Canisius College, September 2004.

- Noncommutative linear analysis, Public lecture, Canisius College, Buffalo (September).
- Automatic weak* continuity and applications, Seminar, SUNY Buffalo (September).

2003: • AMS Special session, January (Baltimore).

- Algebraic structure in spaces of Hilbert space operators, Colloquium, Rice University (January).
- GPOTS (Univ. of Illinois) (Semi-plenary).
- CIRM Conference on Operator Spaces, Luminy, France (June) (Plenary).
- Ecole d'Ete (Summer School) Univ. Paris VI, Jussieu, Lecture course for European grad. students.
- Structure in operator spaces, Functional analysis seminar, University of Illinois (November).
- 2002: Workshop 'Non-commutative Banach spaces' Muenster, Germany (Lecture series)
 - 4th Conference on function spaces, S. Illinois University Edwardsville, May (45 minute talk).
 - GPOTS (UNC Charlotte) (May).
 - Workshop on Nonself-adjoint Operator Algebras, Fields Institute Toronto (Plenary).
 - Operator Space Workshop (College Station, July) (Plenary).
 - Regional Functional Analysis conference (College Station, July) (Plenary).
 - Non-commutative phenomena and random matrices (August) PIMS (Vancouver).
 - Journees du Groupement de Recherche Conference, Besancon, France (September) (Plenary).
 - The double commutant theorem and generators, Seminar, Texas A & M University (October).
 - On the general theory of operator algebras, Seminar, University of Texas, Austin (December).
- 2001: Noncommutative Banach space workshop, M.S.R.I. Berkeley (Plenary).
 - GPOTS (New Hampshire).
 - AMS Special session (Irvine).
 - Operator spaces and applications, Colloquium, University of South Africa (December).
- 2000: Conference on Operator Spaces (Institut Henri Poincare, Paris). (50 minute talk).
 - Operator function theory and semigroups, (45 minute talk). (Ambleside, U. K., September).
 - A.M.S. Regional Meeting, Birmingham Alabama (November).
 - Annual Informal Analysis Seminar (Kent State University, Ohio) (Plenary).
 - A generalization of Functional Analysis. Colloquium, University of Houston (February).
 - Adjointable maps on operator spaces, Seminar, Texas A & M University (July).
 - Noncommutative M-structure, Seminar, Texas A & M University (August).
 - A generalization of functional analysis, Colloquium, Washington University, St. Louis (October).
 - Multipliers and noncommutative M-structure, Seminar, Washington University, St. Louis (October).

1999: • AMS January meeting (San Antonio)

- Operator Space Workshop (Urbana, March) (Plenary).
- AMS Special Meeting (Urbana, March).
- Canadian Operator Symposium, Prince Edward Island., May (Plenary)
- Joint Analysis Seminar, Pretoria (July).
- Regional Functional Analysis conference (College Station, July-Aug (Plenary)
- Semester on free probability and operator spaces, Institut Henri Poincare, Paris (September).
- Noncommutative Functional Analysis and Noncommutative Spaces. Texas A & M University (May).
- The Shilov boundary of an operator space. Univ. de Franche-Comte, Besancon, France (September).
- Hilbert C*-modules as the boundary of an operator space. Inst. Henri Poincare, Paris (September).

1998: • Conference on Operator Spaces, CNRS, Luminy, France. On Scientific Organizing Committee.

- Summer Workshop in Linear Analysis (Texas A&M).
- The maximal C*-dilation and Morita equivalence, Seminar, SUNY Buffalo (November).
- 1997: AMS January meeting (San Diego)
 - Functional Analysis Meeting (U.N.C. Charlotte) (Plenary)
 - Great Plains Operator Theory Seminar/Canadian Operator Symposium, Kingston, ON (May)
 - Joint Meeting of A.M.S. and South African Math Soc. (June, Pretoria, South Africa).

- Coorganizer of special session on Functional Analysis and Operators, at AMS/SAMS meeting.
- Operator Spaces Workshop (August, Texas A&M) (1 hour speaker).
- Operator algebras and their equivalence, Seminar, University of Texas at San Antonio (February).
- On C*-modules, Colloquium, Oakland University, Michigan (March).
- Characterizations of Operator Algebras. Colloquium, University of Houston.
- An introduction to operator spaces. Lecture series, University of Pretoria, S. Africa (July).
- Advances in Operator Algebra. Colloquium, Texas Christian University (October).

1996: • AMS January meeting (Orlando)

- South Eastern Analysis Meeting 12, Richmond, Virginia
- Canadian Operator Symposium, Saskatoon, May 16-21 (Plenary)
- 2nd Intl. Conference in Africa on Abstract Analysis, Kruger National Park, Africa (Plenary)
- Operator Algebras and Quantum Field Theory, Rome, Italy (July 1-6) (1 hour invited talk)
- Aegean Conference on Operator Theory and Applications (Samos, Greece) (Plenary)
- Operator Algebras. Colloquium; Brown University, Rhode Island (April).
- Hilbert C*-modules and operator spaces. Colloquium, University of Pretoria (S. Africa).
- Advances in operator spaces. Colloquium, University of Cape Town (S. Africa).
- Colloquium, University of the Witwatersrand (S. Africa).
- Hilbert C*-modules and operator spaces. Seminar, University of Leipzig (Germany).
- Operator algebras. Seminar, University of Kiel (Germany).
- Operator spaces and Operator Algebras. Seminar, University of Saarbruecken (Germany).
- On Operator Modules. Texas A & M University Seminar (November).

Postdocs directed–last five years

Bang Xu (January 2024–December 2024).

GRADUATE RESEARCH DIRECTED

Damon Hay (Ph.D, May 2006, now a tenure track Asst. Prof. at Sam Houston State University) Upasana Kashyap (Ph.D, December 2008, first position tenure track Asst. Prof. at The Citadel) Sonia Sharma (Ph.D, December 2009, first position a tenure track Asst. Prof. at SUNY Cortland; now a data analyst/scientist)

Melahat Almus (Ph.D, April 2011), Instructional Associate Professor, Department of Mathematics, UH.

M. Royce (Ph.D, August 2013, http://www.math.uh.edu/ dblecher/ROYCEthesisfinal.pdf), Lone Star College. Clifford Alex Bearden (graduated May 2017, tenure track position at UT Tyler).

Zhenhua Wang (began advising in 2015, Ph. D. May 2019, first position Limited Term Assistant Professor University of Georgia (2-3 years)).

Worawit Tepsan (began advising in 2017, PhD 2020). First academic teaching position at Chiang Mai University in Thailand.

Co-PhD advisor Arianna Cecco (began advising in 2021). Graduated Fall 2024.

Co-PhD advisor Dylan Phelps (NW University)

PhD advisor for Caleb McClure (began advising in 2024).

Working as prospective adviser or Co-PhD advisor with Christiaan Pretorius (2024).

Partly advised M. Kaneda (Ph.D 2003) and Da Zheng (Ph.D 2016)

Many Masters projects supervised.

External examiner and project mentor, Masters thesis of Luis Flores, TAMUCC (2017-2018).

Served on many PhD thesis defense committees, prelim exams, etc, to date (during period 2019–2022), most recently for N. Panagopolous, T. Amrutan, Z. Wang, W. Tepsan, D. Domel-White, S. Chehade, Homayoon Shobeiri, Arianna Cecco.

External examiner PhD thesis of N Manor, University of Waterloo 2022.

External examiner Masters thesis of C. Pretorius, NW University 2023.

EXAMPLES OF UNDERGRADUATE RESEARCH DIRECTED

- Seth Hain, 'Algebra and matrix normed spaces', Rose-Hulman Undergrad. Math. J. 2 (2) (2001). Seth went on to be a grad student at Wisconsin or Minnesota.
- Kay Kirkpatrick, 'Shilov boundary and M-structure of operator spaces'. Note: A few months after this REU summer project, Kay was co-winner of the Alice T. Schafer Prize for Excellence in Mathematics by an Undergraduate Woman, given by the Association for Women in Mathematics. Kay, now holds a tenure track position at the University of Illinois.
- REU series "New Mathematical Topographies", a week-long course of undergraduate lectures and projects on Research in Mathematics, Canisius College, Buffalo, September 2004. The aim of the series is to introduce undergraduate math majors to new research-level mathematics.
- External Examiner, Senior Honours thesis, Elena Caffarelli, Canisius College, Buffalo (2010).
- REU projects with Sepehr Morajev, Grant Getselmann 2011, Hasti Sajedi 2015.

Examples of international Minicourses aimed at graduate students

Workshop on Operator Spaces and NCG interaction (February 2016, Oberwolfach Germany), Indian Statistical Institute (Bangalore, December 2016), Fields Institute (Toronto, May 2014). For older international graduate courses see above (e.g. at Univ. Paris VI, Muenster Germany, Seoul Korea, South Africa).

EXAMPLES OF PROFESSIONAL SERVICE (LAST TEN YEARS)

- External panel member for the External Program Evaluation (EPE) for the subject group Mathematics and Applied Mathematics, Northwest University South Africa.
- NTT promotion committee 2024 Fall.
- Co-organizer, Analysis seminar Spring 2024.
- Representative on many departmental and college committees. Just a sample are listed below.
- Prelims committee (2023-2024).
- Adjunct Lecturer Search Committee Summer 2023.
- Clinical Assistant Professor teachHOUSTON Search Committee 2022.
- NSM Strategic planning committee for Student Success 2021-2022.
- Math Grad School Application Workshop presentation, 2022.
- Dual Math-CS Major committee Spring and Fall 2024.
- Hiring Committee (Quantum Convexity position) 2023-2024 (Hired Ping Zhong).
- Hiring committee for temporary teaching positions 2021.
- Committees to restructure many courses, e.g. 1314, 3325, 3331, 3334, 3335, 4331-4332, 4351.
- Mathematics Undergraduate Scholarships Committee, Sept 2017-2024.
- Cofounder and leader of Chair's Undergraduate Leadership Committee 2020– (which grew out of the following item:)

- Department Representative and speaker at NSM Meet Event.
- COVID-19 Working group (daily 2 hour meetings, March–June 2020).
- Chair, Hiring Committee (IAP) 2017, 2018, 2019.
- Undergraduate director, Sept 2017– .
- Departmental Graduate Studies Committee 2017- .
- Departmental Undergraduate Studies Committee 2017– .
- NSM Undergraduate Studies Committee, Sept 2017-.
- UH bike mentor (work with UH Parking and Transportation).
- Co-organizer Mini-workshop on the Cuntz semigroup University of Houston, June 18 20, 2018.
- External examiner and project mentor, Masters thesis of Luis Flores, TAMUCC (2017-2018).
- By-laws subcommittee member 2017-2019.
- Nontenure track promotion committee 2016– (reviewing promotion cases and helping prepare porfolios by soliciting external letters, etc.
- Executive Committee (January 2014–).
- Associate Chair, Department of Mathematics (January 2014–Aug 2017).
- Hiring Committee (Postdoctoral) 2016-2017.
- Hiring Committee (Asst Prof) 2014-2015, 2016-2017.
- Chair, Teaching Awards Committee 2013-2017.
- Chair, Research Awards Committee 2013-2017.
- Ad-hoc-grievance committee.
- Annual TT-APR committee, Annual NTT-APR committee, etc.
- Hiring Committee 2014-2015.
- Organizer, Analysis seminar Spring 2015.
- Hiring Committee for Departmental Business Administrator, 2014.
- Undergraduate Studies Committee, 2013–2014.
- National Science Foundation panelist.
- Ad Hoc committee on Undergraduate Curriculum (2012). Chair of "Course content" subcommittee.
- Promotion, tenure, merit review committee 2012.
- Departmental Graduate Studies Committee 2011-2013.
- Functional analysis seminar organizer, Fall 2012 and Fall 2011.
- Organizing committee GPOTS 2012 (Houston.)
- Scientific committee Operator Spaces, Quantum Probability and Applications, Wuhan (China) June 2012.

- Special session organizer, SAMS/AMS International congress, Port Elizabeth, South Africa (November–December 2011).
- Scientific Committee, SAMS/AMS Sattelite meeting on abstract analysis, Pretoria, South Africa (December).
- Coorganizer, SAMS/AMS Satellite meeting on abstract analysis, Pretoria, South Africa (December).
- Promotion and tenure committee 2010.
- Editor, Houston Journal of Mathematics, 2010-
- Departmental Teaching Effectiveness Committee 2010
- PALS program volunteer, UH, 2009–2010.
- Scientific Organizing Committee, CNRS Conference on Noncommutative L_p -spaces, operator spaces and applications, Luminy, France (2009)
- Editor, Journal of Mathematical Analysis and Applications (2008-) Impact factor 1.3 as of Feb 2024.
- Promotion and tenure committee 2007-2008?
- International Advisory Committee, International Conference on Operator Theory (Delhi Univ. India, 2008)
- Scientific Organizing Committee, CNRS Conference on Noncommutative L_p -spaces, operator spaces and applications, Luminy, France (2007)
- College Policy committee 2006-2009
- Faculty Senator (2000-2006)
- Frequent organizer of Functional Analysis Seminar
- Referee for dozens of journals, grant awarding agencies, etc.
- Referee for (full) Professor search, Finland 2006.
- Faculty Affairs Committee (2000-2006)
- Executive Committee (2004-2005)
- Faculty Senate Taskforce member: Principles of progress (2004)
- Faculty Development Leave Committee (2004)
- Post-tenure and Merit Review Committee (2003)
- Scientific Organizing Committee, CNRS Conference on Operator Spaces, Luminy, France (2003)