

**Dr. Gelu F. Popescu**  
**Professor**  
**The University of Texas at San Antonio**

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Web Address: [zeta.math.utsa.edu/~xeu770/](http://zeta.math.utsa.edu/~xeu770/)

### **Education**

Doctor of Philosophy, Mathematics, Texas A&M University

Master of Science, Mathematics, University of Bucharest

Bachelor of Science, Mathematics, University of Timisoara

### **Academic Positions**

2000 - Present	Professor, UTSA
1997 - 2000	Associate Professor, UTSA
1994 - 1997	Assistant Professor, UTSA
1993 - 1994	Lecturer, UTSA

### **SCHOLARSHIP/RESEARCH/CREATIVE WORKS**

#### Intellectual Contributions

#### **Journal Article, Academic Journal - Peer-Reviewed/Refereed**

91. Popescu, G.F. Noncommutative domains, universal operator models, and operator algebras. (Submitted)
90. Popescu, G.F. Noncommutative varieties, universal operator models, and operator algebras. (Submitted)

#### **2022**

89. Popescu, G.F. Wold decompositions for representations of  $C^*$ -algebras

associated with noncommutative domains. *Journal of Operator Theory*, 87(1), 41-81.

### 2021

88. Popescu, G.F. (2021). Bergman spaces over noncommutative domains and commutant lifting. *Journal of Functional Analysis*, 280(8), 89 pp.
87. Popescu, G.F. (2021). Brown-Halmos characterization of multi-Toeplitz operators associated with noncommutative poly-hyperballs. *Analysis and PDE*, 14(6), 1725-1760.
86. Popescu, G.F. (2021). Representations of  $C^*$ -algebras associated with noncommutative polyvarieties. *Integral Equations Operator Theory*, 93(1), 51 pp.

### 2020

85. Popescu, G.F. (2020). Berezin kernels and Wold decompositions associated with noncommutative polydomains. *Proceedings of American Mathematical Society*, 148(11), 4887-4905.
84. Popescu, G.F. (2020). Doubly L-commuting row isometries, universal models, and classification. *Journal of Functional Analysis*, 20(12), 69 pp.
83. Popescu, G.F. (2020). Functional calculus and multi-analytic models on regular Lambda-polyballs. *Journal of Mathematical Analysis and Applications*, 491(1), 32 pp.
82. Popescu, G.F. (2020). Multi-Toeplitz operators associated with regular polydomains. *#operatortheory, Theta Series in Advanced Mathematics*, 225–262.

### 2019

81. Popescu, G.F. (2019). Bohr inequalities for free holomorphic functions on polyballs. *Advances in Mathematics*, 347, 1002-1053.
80. Popescu, G.F. (2019). Bohr inequalities on noncommutative polydomains. *Integral Equations and Operator Theory*, no.91, Art. 7(no.1), 55pp..
79. Popescu, G.F. (2019). Multi-Toeplitz operators and free pluriharmonic functions. *Journal of Mathematical Analysis and Applications*, 478(no. 1), 256-293.
78. Popescu, G.F. (2019). Noncommutative hyperballs, wandering subspaces, and inner functions. *Journal of Functional Analysis*, 276, 3406-3440.

### 2018

77. Popescu, G.F. (2018). Ando dilations and inequalities on noncommutative domains. *Proceedings of the Royal Society of Edinburgh, Section A: Mathematics*, 148(6), 1239-1267.
76. Popescu, G.F. (2018). Free holomorphic functions on polydomains. *Operator Theory: Themes and Variations, Theta Series in Advanced Mathematics*, 20, 157-186.
75. Popescu, G.F. (2018). Invariant subspaces and operator model theory on noncommutative varieties. *Mathematische Annalen*, 372(1-2), 611-650.

### 2017

74. Popescu, G.F. (2017). Ando dilations and inequalities on noncommutative varieties. *Journal of Functional Analysis*, 272, 3669-3711.

73. Popescu, G.F. (2017). Euler characteristic on noncommutative polyballs. *Journal für die Reine und Angewandte Mathematik*, 728, 195-236.

72. Popescu, G.F. (2017). Hyperbolic geometry on noncommutative polyballs. *Journal of Mathematica Analysis and Applications*, 456, 576-607.

#### 2016

71. Popescu, G.F. (2016). Berezin transforms on noncommutative polydomains. *Transactions of the American Mathematical Society*, 368(6), 60 pages.

70. Popescu, G.F. (2016). Free pluriharmonic functions on noncommutative polyballs. *Analysis & PDE*, 9(5), 50 pages.

69. Popescu, G.F. (2016). Holomorphic automorphisms of noncommutative polyballs. *Journal of Operator Theory*, 76(2), 62 pages.

#### 2015

68. Popescu, G.F. (2015). Curvature invariant on noncommutative polyballs. *Advances in Mathematics*, 279, 104-158.

#### 2014

67. Popescu, G.F. (2014). Similarity problems in noncommutative polydomains. *Journal of Functional Analysis*, 267(11), 4446--4498.

#### 2013

66. Popescu, G.F. (2013). Berezin transforms on noncommutative varieties in polydomains. *Journal of Functional Analysis*, 265(10), 2500-2552.

65. Popescu, G.F. (2013). Free biholomorphic functions and operator model theory II. *Journal of Functional Analysis*, 265(5), 786-836.

64. Popescu, G.F. (2013). Noncommutative multivariable operator theory. *Integral Equations and Operator Theory*, 75(1), 87-133.

63. Popescu, G.F. (2013). Unitary invariants on the unit ball of  $B(H)^n$ . *Transaction of the American Mathematical Society*, 365(12), 6243-6267.

#### 2012

62. Popescu, G.F. (2012). Free biholomorphic functions and operator model theory. *Journal of Functional Analysis*, 262(7), 3240-3308.

#### 2011

61. Popescu, G.F. (2011). Composition operators on noncommutative Hardy spaces. *Journal of Functional Analysis*, 260, 906-958.

60. Popescu, G.F. (2011). Free biholomorphic classification of noncommutative domains. *International Mathematics Research Notices*, 2011, 784-850.

59. Popescu, G.F. (2011). Joint similarity to operators in noncommutative varieties. *Proceedings of the London Mathematical Society*, 103, 331-370.

#### 2010

58. Popescu, G.F. (2010). Free holomorphic automorphisms of the unit ball of  $B(H)^n$ . *Journal für die Reine und Angewandte Mathematik*, 638, 119-168.

57. Popescu, G.F. (2010). Free holomorphic functions on the unit ball of  $B(H)^n$  II.

*Journal of Functional Analysis*, 258, 1513-1578.

56. Popescu, G.F. (2010). Operator theory on noncommutative domains. *Memoirs of the American Mathematical Society*, 205(964), vi+124 pp..

#### 2009

55. Popescu, G.F. (2009). Hyperbolic geometry on noncommutative balls. *Documenta Mathematica*, 14, 595-651.
54. Popescu, G.F. (2009). Noncommutative hyperbolic geometry on the unit ball of  $B(H)^n$ . *Journal of Functional Analysis*, 256, 4030-4070.
53. Popescu, G.F. (2009). Noncommutative transforms and free pluriharmonic functions. *Advances in Mathematics*, 220, 831-893.
52. Popescu, G.F. (2009). Unitary invariants in multivariable operator theory. *Memoirs of the American Mathematical Society*, 200(941), vi+91 pp..

#### 2008

51. Popescu, G.F. (2008). Free holomorphic functions and interpolation. *Mathematische Annalen*, 342, 1-30.
50. Popescu, G.F. (2008). Free pluriharmonic majorants and noncommutative interpolation. *Journal of Functional Analysis*, 255, 891-939.
49. Popescu, G.F. (2008). Hyperbolic geometry on the unit ball of  $B(H)^n$ . *Indiana University Mathematics Journal*, 57, 2891-2930.
48. Popescu, G.F. (2008). Noncommutative Berezin transforms and multivariable operator model theory. *Journal of Functional Analysis*, 254, 1003-1057.

#### 2007

47. Popescu, G.F. (2007). Multivariable Bohr inequalities. *Transactions of the American Mathematical Society*, 359, 5283-5317.
46. Popescu, G.F. (2007). Operator theory on noncommutative varieties II. *Proceedings of the American Mathematical Society*, 135, 2151-2164.
45. Popescu, G.F. (2007). von Neumann inequality on noncommutative domains. *Operator theory, structured matrices, and dilations, Theta Ser. Adv. Math.*, 7, 307-323.

#### 2006

44. Popescu, G.F. (2006). Characteristic functions and joint invariant subspaces. *Journal of Functional Analysis*, 236, 277-320.
43. Popescu, G.F. (2006). Commutator lifting inequalities and interpolation. *Pacific Journal of Mathematics*, 225, 155-175.
42. Popescu, G.F. (2006). Entropy and multivariable interpolation. *Memoirs of the American Mathematical Society*, 184(868), vi+83 pp..
41. Popescu, G.F. (2006). Free holomorphic functions on the unit ball of  $B(H)^n$ . *Journal of Functional Analysis*, 241, 268-333.
40. Popescu, G.F. (2006). Operator theory on noncommutative varieties. *Indiana University Mathematics Journal*, 56, 389-442.

#### 2004

39. Popescu, G.F. (2004). Multivariable moment problems. *Positivity*, 8, 339-367.

### 2003

38. Gheondea, A., Popescu, G.F. (2003). Bounded characteristic functions and models for noncontractive sequences of operators. *Integral Equations and Operator Theory*, 45, 15-38.
37. Gheondea, A., Popescu, G.F. (2003). Joint similarity and dilations for noncontractive sequences of operators. *Journal of Functional Analysis*, 197, 68-109.
36. Popescu, G.F. (2003). Multivariable Nehari problem and interpolation. *Journal of Functional Analysis*, 200, 536-581.
35. Popescu, G.F. (2003). Similarity and ergodic theory for linear maps. *Journal für die Reine und Angewandte Mathematik*, 561, 87-129.

### 2002

34. Popescu, G.F. (2002). Central intertwining lifting, suboptimization, and interpolation in several variables. *Journal of Functional Analysis*, 189, 132-154.
33. Popescu, G.F. (2002). Meromorphic interpolation in several variables. *Linear Algebra and its Applications*, 357, 173-196.
32. Paulsen, V.I., Popescu, G.F., Singh, D. (2002). On Bohr's inequality. *Proceedings of the London Mathematical Society*, 85, 493-512.

### 2001

31. Popescu, G.F. (2001). A lifting theorem for symmetric commutants. *Proceedings of the American Mathematical Society*, 129, 1705-1711.
30. Popescu, G.F. (2001). Commutant lifting, tensor algebras, and functional calculus. *Proceedings of the Edinburgh Mathematical Society*, 44, 389-406.
29. Popescu, G.F. (2001). Curvature invariant for Hilbert modules over free semigroup algebras. *Advances in Mathematics*, 158, 264-309.
28. Popescu, G.F. (2001). Spectral commutant lifting in several variables. *Transactions of the American Mathematical Society*, 353, 2843-2857.
27. Popescu, G.F. (2001). Structure and entropy for positive-definite Toeplitz kernels on free semigroups. *Journal of Mathematical Analysis and Applications*, 254, 191-218.

### 2000

26. Arias, A., Popescu, G.F. (2000). Noncommutative interpolation and Poisson transforms. *Israel Journal of Mathematics*, 115, 205-234.

### 1999

25. Popescu, G.F. (1999). A generalization of Beurling's theorem and a class of reflexive algebras. *Journal of Operator Theory*, 41, 391-420.
24. Arias, A., Popescu, G.F. (1999). Noncommutative interpolation and Poisson transforms II. *Houston Mathematical Journal*, 25, 79-98.
23. Popescu, G.F. (1999). Poisson transforms on some C\*-algebras generated by isometries. *Journal of Functional Analysis*, 161, 27-61.
22. Popescu, G.F. (1999). Positive definite kernels on free product semigroups and universal algebras. *Mathematica Scandinavica*, 84, 137-160.

21. Popescu, G.F. (1999). Structure and entropy for Toeplitz kernels. *Comptes Rendus de l'Academie des Sciences, Paris, Series I: Mathematics*, 329, 129-134.

#### 1998

20. Popescu, G.F. (1998). Interpolation problems in several variables. *Journal of Mathematical Analysis and Applications*, 227, 227-250.
19. Davidson, K.R., Popescu, G.F. (1998). Noncommutative disc algebras for semigroups. *Canadian Journal of Mathematics*, 50, 290-311.
18. Popescu, G.F. (1998). Noncommutative joint dilations and free product operator algebras. *Pacific Journal of Mathematics*, 186, 111-140.
17. Popescu, G.F. (1998). Noncommutative Wold decompositions for semigroups of isometries. *Indiana University Mathematics Journal*, 47, 277-296.
16. Popescu, G.F. (1998). Universal operator algebras associated to contractive sequences of noncommuting operators. *Journal of the London Mathematical Society*, 58, 469-479.

#### 1996

15. Popescu, G.F. (1996). Non-commutative disc algebras and their representations. *Proceedings of the American Mathematical Society*, 124, 2137-2148.
14. Popescu, G.F. (1996). Positive-definite functions on free semigroups. *Canadian Journal of Mathematics*, 48, 887-896.

#### 1995

13. Arias, A., Popescu, G.F. (1995). Factorization and reflexivity on Fock spaces. *Integral Equations and Operator Theory*, 23, 268-286.
12. Popescu, G.F. (1995). Functional calculus for noncommuting operators. *Michigan Mathematical Journal*, 42, 345-356.
11. Popescu, G.F. (1995). Multi-analytic operators on Fock spaces. *Mathematische Annalen*, 303, 31-46.

#### 1993

10. Popescu, G.F. (1993). Noncommutative dilation theory on Fock spaces. *Ph.D. Thesis, Texas A&M University*.

#### 1992

9. Popescu, G.F. (1992). On intertwining dilations for sequences of noncommuting operators. *Journal of Mathematical Analysis and Applications*, 167, 382-402.
8. Popescu, G.F. (1992). On similarity of operators to isometries. *Michigan Mathematical Journal*, 39, 385-393.

#### 1991

7. Popescu, G.F. (1991). Von Neumann inequality for  $(B(H))^n$ . *Mathematica Scandinavica*, 292-304.

#### 1989

6. Popescu, G.F. (1989). Characteristic functions for infinite sequences of noncommuting operators. *Journal of Operator Theory*, 22, 51-71.

5. Popescu, G.F. (1989). Isometric dilations for infinite sequences of noncommuting operators. *Transactions of the American Mathematical Society*, 316, 523-536.
4. Popescu, G.F. (1989). Models for infinite sequences of noncommuting operators. *Acta Scientiarum Mathematicarum*, 53, 355-368.
3. Popescu, G.F. (1989). Multi-analytic operators and some factorization theorems. *Indiana University Mathematics Journal*, 38, 693-710.

#### 1988

2. Popescu, G.F. (1988). On quasi-similarity of contractions with finite defect indices. *Integral Equations and Operator Theory*, 11, 883-892.

#### 1986

1. Popescu, G.F. (1986). Isometric dilations of P-commuting contractions. *Revue Roumaine de Mathématiques Pures et Appliquées*, 31, 383-393.

### Contracts, Fellowships, Grants, Sponsored Research and Residencies

#### **Grant - Funded**

#### 2018

2. Popescu, G., "Noncommutative Multivariable Operator Theory PI's/Co-PI's; Shared credit: Popescu, Gelu PI - 100.00%," Sponsored by Natl Science Fdn, \$175,996.00. (June 1, 2015 - May 31, 2018).

#### 2017

1. Popescu, G., "Noncommutative Multivariable Operator Theory PI's/Co-PI's; Shared credit: Popescu, Gelu PI - 100.00%," Sponsored by Natl Science Fdn, \$173,350.00. (July 1, 2014 - June 30, 2017).

#### **Grant - Submitted**

#### 2023

3. Popescu, G., "Noncommutative Multivariable Operator Theory and Free Holomorphic Functions PI's/Co-PI's; Shared credit: Popescu, Gelu PI - 100.00%," Sponsored by Natl Science Fdn, \$202,088.00. (June 1, 2020 - May 30, 2023).

#### 2022

2. Popescu, G., "Multivariable Operator Theory on Noncommutative Domains and Varieties PI's/Co-PI's; Shared credit: Popescu, Gelu PI - 100.00%," Sponsored by Natl Science Fdn, \$198,481.00. (July 1, 2019 - June 30, 2022).

#### 2019

1. Popescu, G., "Multivariable Operator Theory on Noncommutative Domains and Varieties PI's/Co-PI's; Shared credit: Popescu, Gelu PI - 100.00%," Sponsored by Natl Science Fdn, \$186,215.00. (July 1, 2018 - June 30, 2019).

## Presentations

### **Invited Talk - Not Peer-Reviewed/Refereed**

#### **2021**

58. Popescu, G. F., IWOTA 2021, Operator Theory and Interpolation in Several Complex Variables. (July 2021).
57. Popescu, G. F., "Wold decompositions for representations of  $C^*$ -algebras associated with noncommutative varieties," Institute of mathematics of the Romanian Academy. (April 2021).

#### **2020**

56. Popescu, G. F., AMS Special Session on Advances in Multivariable Operator Theory: Connections with Algebraic Geometry, Free Analysis, and Free Probability, Denver. (January 2020).

#### **2019**

55. Popescu, G. F., Workshop on Developments and Technical Aspects of Free Noncommutative Functions, Fields Institute, Canada. (2019).
54. Popescu, G. F., Workshop on Multivariable Spectral Theory and Representation Theory, BIRS, Canada. (2019).
53. Popescu, G. F., Great Plains Operator Theory Symposium, Texas A&M University. (2019).
52. Popescu, G. F., Seminar on Multi-Toeplitz operators and free pluriharmonic functions, West University of Timisoara, Romania. (2019).
51. Popescu, G. F., Seminar on Toeplitz operators on noncommutative spaces, University of Rome, Tor Vergata, Italy. (2019).
50. Popescu, G. F., Wabash Annual Conference at IUPUI, Indianapolis, Indiana. (2019).

#### **2017**

49. Popescu, G. F., Seminar On Ando's inequalities, West University of Timisoara, Timisoara, Romania. (June 2017).

#### **2016**

48. Popescu, G. F., Great Plains Operator Theory Symposium, University of Illinois at Urbana-Champaign, Illinois. (May 2016).

#### **2015**

47. Popescu, G. F., Seminar on Euler characteristic on noncommutative polyballs, Timisoara, Romania. (April 2015). (Completed)
46. Popescu, G. F., Great Plains Operator Theory Symposium, Purdue University, Indiana. (May 2015). (Completed)
45. Popescu, G. F., Workshop on Multivariate Operator Theory, Banff International Research Station, Canada. (April 2015). (Completed)
44. Popescu, G. F., AMS Special Session on Noncommutative Function Theory, San



Antonio, Texas. (January 2015). (Completed)

#### **2014**

43. Popescu, G. F., Wabash Miniconference, Indianapolis. (September 2014). (Completed)
42. Popescu, G. F., The 25-th International Conference on Operator Theory, Timisoara, Romania. (July 2014). (Completed)
41. Popescu, G. F., Workshop on Hilbert Modules and Complex Geometry, Mathematical Research Institute Oberwolfach, Germany. (April 2014). (Completed)
40. Popescu, G. F., AMS Special Session on Recent Progress in Multivariable Operator Theory, Baltimore. (January 2014). (Completed)

#### **2013**

39. Popescu, G. F., AMS Special Session on Multivariable Operator Theory, Alba Iulia, Romania. (June 2013). (Completed)
38. Popescu, G. F., Great Plains Operator Theory Symposium, University of California, Berkeley. (May 2013). (Completed)

#### **2011**

37. Popescu, G. F., AMS Special Session on Multivariable Operator Theory, Cornell University, Ithaca. (2011).
36. Popescu, G. F., AMS Special Session on Multivariable Operator Theory, Annual Meeting, New Orleans. (2011). (Completed)
35. Popescu, G. F., Seminar on Noncommutative Multivariable Operator Theory, Timisoara, Romania. (2011). (Completed)
34. Popescu, G. F., The XXII<sup>nd</sup> International Workshop on Operator Theory and its Applications, Seville, Spain. (2011). (Completed)
33. Popescu, G. F., Great Plains Operator Theory Symposium, Arizona State University. (2011). (Completed)

#### **2010**

32. Popescu, G. F., (main speaker), The 23<sup>rd</sup> International Conference on Operator Theory, Timisoara, Romania. (2010). (Completed)
31. Popescu, G. F., Workshop on Multivariate Operator Theory, Banff International Research Station, Canada. (2010). (Completed)

#### **2009**

30. Popescu, G. F., The XX<sup>th</sup> International Workshop on Operator Theory and its Applications, Guanajuato, Mexico. (2009). (Completed)

#### **2008**

29. Popescu, G. F., (main speaker), The 22<sup>nd</sup> International Conference on Operator Theory, Timisoara, Romania. (2008). (Completed)
28. Popescu, G. F., (main speaker), The XIX<sup>th</sup> International Workshop on Operator Theory and its Applications, Williamsburg, VA. (2008). (Completed)
27. Popescu, G. F., Workshop in Multivariable Operator Theory, Texas A&M

University. (2008). (Completed)

**2007**

26. Popescu, G. F., (featured speaker), Great Plains Operator Theory Symposium, University of Nebraska. (2007). (Completed)
25. Popescu, G. F., "Operator Spaces, noncommutative  $L_p$  spaces and Applications," Marseille, France. (2007). (Completed)

**2006**

24. Popescu, G. F., American Mathematical Society Meeting, University of Utah. (2006). (Completed)
23. Popescu, G. F., (main speaker), The 21st International Conference on Operator Theory, Timisoara, Romania. (2006). (Completed)

**2005**

22. Popescu, G. F., "Invariant and hyperinvariant subspaces," Texas A&M University. (2005). (Completed)
21. Popescu, G. F., Wabash Miniconference, Indianapolis. (2005). (Completed)

**2004**

20. Popescu, G. F., (main speaker), Great Plains Operator Theory Symposium, Texas A&M University. (2004). (Completed)

**2003**

19. Popescu, G. F., Great Plains Operator Theory Symposium, University of Illinois at UrbanaChampaign. (2003). (Completed)
18. Popescu, G. F., "Operator Spaces and Applications," Marseille, France. (2003). (Completed)

**2002**

17. Popescu, G. F., International Workshop on Operator Theory and its Applications, Blacksburg, Virginia. (2002). (Completed)
16. Popescu, G. F., (main speaker), The 19th International Conference on Operator Theory, Timisoara, Romania. (2002). (Completed)

**2001**

15. Popescu, G. F., Texas A&M and U. T. Joint Functional Analysis Seminar, College Station, Texas. (2001). (Completed)

**2000**

14. Popescu, G. F., Semester in "Free probability and operator spaces", Institute Henri Poincare, Paris, France. (2000). (Completed)

**1999**

13. Popescu, G. F., American Mathematical Society, Annual Meeting, San Antonio, Texas. (1999). (Completed)
12. Popescu, G. F., American Mathematical Society, Regional Meeting, Urbana,

- Illinois. (1999). (Completed)
11. Popescu, G. F., Texas A&M and U. T. Joint Functional Analysis Seminar, College Station, Texas. (1999). (Completed)

#### **1998**

10. Popescu, G. F., American Mathematical Society, Annual Meeting, Baltimore, Maryland. (1998). (Completed)
9. Popescu, G. F., North Carolina Miniconference on Operator Theory & Operator Algebras, East Carolina University. (1998). (Completed)
8. Popescu, G. F., Texas A&M and U.T. Joint Functional Analysis Seminar, College Station, Texas. (1998). (Completed)

#### **1997**

7. Popescu, G. F., American Mathematical Society, Annual Meeting, San Diego, California. (1997). (Completed)
6. Popescu, G. F., Operator Spaces Conference and U.T. Joint Functional Analysis Seminar, College Station, Texas. (1997). (Completed)

#### **1996**

5. Popescu, G. F., American Mathematical Society, Regional Meeting, Iowa City, Iowa. (1996). (Completed)

#### **1995**

4. Popescu, G. F., Texas A&M and U. T. Joint Functional Analysis Seminar, College Station, Texas. (1995). (Completed)

#### **1994**

3. Popescu, G. F., Texas A&M and U. T. Joint Functional Analysis Seminar, College Station, Texas. (1994). (Completed)

#### **1993**

2. Popescu, G. F., American Mathematical Society, Annual Meeting, San Antonio, Texas. (1993). (Completed)
1. Popescu, G. F., American Mathematical Society, Regional Meeting, College Station, Texas. (1993). (Completed)

#### **Invited talk - Not Peer-Reviewed/Refereed**

#### **2012**

3. Popescu, G. F., "Free Biholomorphic functions," University of California, Berkeley. (March 2012). (Completed)
2. Popescu, G. F., The 24th International Conference on Operator Theory, Timisoara, Romania. (June 2012). (Completed)
1. Popescu, G. F., AMS Special Session on Free Analysis, Boston. (January 2012). (Completed)

#### **Keynote/Plenary Address - Not Peer-Reviewed/Refereed**

**2018**

6. Popescu, G. F., The 27-th International Conference on Operator Theory, Romania. (July 2018).

**2017**

5. Popescu, G. F., Multivariable Operator Theory, Technion, Haifa, Israel. (June 2017).
4. Popescu, G. F., Great Plains Operator Theory Symposium, Texas Christian University, Fort Worth, Texas. (May 2017).
3. Popescu, G. F., Brazos Analysis Seminar, Baylor University, Texas A&M University, University of Houston and the National Science Foundation, Texas A&M Unoversity, College Station. (March 2017).

**2016**

2. Popescu, G. F., The 26-th International Conference on Operator Theory, Timisoara, Romania. (June 2016).

**2013**

1. Popescu, G. F., Sz.-Nagy Centennial Conference, Szeged, Hungary. (June 2013). (Completed)

**Paper - Not Peer-Reviewed/Refereed**

**2009**

22. Popescu, G. F., Great Plains Operator Theory Symposium, Boulder, Colorado. (2009). (Completed)

**2006**

21. Popescu, G. F., Great Plains Operator Theory Symposium, University of Iowa. (2006). (Completed)

**2005**

20. Popescu, G. F., Great Plains Operator Theory Symposium, University of Central Florida. (2005). (Completed)

**2004**

19. Popescu, G. F., The 20th International Conference on Operator Theory, Timisoara, Romania. (2004). (Completed)

**2002**

18. Popescu, G. F., Great Plains Operator Theory Symposium, University of North Carolina, Charlotte, North Carolina. (2002). (Completed)

**2000**

17. Popescu, G. F., Great Plains Operator Theory Symposium, University of Puerto Rico, San Juan, Puerto Rico. (2000). (Completed)

16. Popescu, G. F., The 18th International Conference on Operator Theory, Timisoara, Romania. (2000). (Completed)
- 1999**
15. Popescu, G. F., Great Plains Operator Theory Symposium, Iowa State University, Ames, Iowa. (1999). (Completed)
- 1998**
14. Popescu, G. F., Great Plains Operator Theory Symposium, Manhattan, Kansas. (1998). (Completed)
13. Popescu, G. F., The 17th International Conference on Operator Theory, Timisoara, Romania. (1998). (Completed)
- 1997**
12. Popescu, G. F., Canadian Operator Algebra Conference and Great Plains Operator Theory Symposium, Kingston, Canada. (1997). (Completed)
- 1996**
11. Popescu, G. F., The 16th International Conference on Operator Theory, Timisoara, Romania. (1996). (Completed)
- 1995**
10. Popescu, G. F., Great Plains Operator Theory Symposium, Cincinnati, Ohio. (1995). (Completed)
- 1994**
9. Popescu, G. F., Great Plains Operator Theory Symposium, Lincoln, Nebraska. (1994). (Completed)
- 1993**
8. Popescu, G. F., Great Plains Operator Theory Symposium, Boulder, Colorado. (1993). (Completed)
- 1990**
7. Popescu, G. F., The 14th International Conference on Operator Theory, Predeal, Romania. (1990). (Completed)
- 1989**
6. Popescu, G. F., The 13th International Conference on Operator Theory, Craiova, Romania. (1989). (Completed)
- 1988**
5. Popescu, G. F., The 12th International Conference on Operator Theory, Timisoara, Romania. (1988). (Completed)
- 1987**
4. Popescu, G. F., The 11th International Conference on Operator Theory,

Bucharest, Romania. (1987). (Completed)

**1986**

3. Popescu, G. F., The 10th International Conference on Operator Theory, Bucharest, Romania. (1986). (Completed)

**1985**

2. Popescu, G. F., The 9th International Conference on Operator Theory, Timisoara, Romania. (1985). (Completed)

**1984**

1. Popescu, G. F., The 8th International Conference on Operator Theory, Timisoara, Romania. (1984). (Completed)

Scholarship/Research/Creative Works Currently in Progress

1. Popescu, G. F., Book in Preparation: Noncommutative Multivariable Operator Theory

**TEACHING**

**Courses Taught**

**Graduate**

Theory of Functions of a Real Variable I (1993 - Present)  
Theory of Functions of a Real Variable II (1993 - Present)  
Linear Algebra and Matrix Theory (1993 - Present)  
Functional Analysis (1993 - Present)  
Spectral Theory on Hilbert Spaces(2015)

**Undergraduate**

Foundations of Analysis (1993 - Present)  
Foundations of Mathematics (1993 - Present)  
Linear Algebra (1993 - Present)  
Calculus III (1993 - Present)  
Calculus II ( 1993 - Present)  
Calculus I (1993 - Present )  
Precalculus (1993 - Present)  
College Algebra (1993 - Present)  
Complex Variables (1993 - Present)  
Real Analysis II (1993 - Present)  
Real Analysis I (1993 - Present)

**Directed Student Learning**

Master's Thesis Committee Chair, "Dilation Theory of Operators on Hilbert Spaces."  
Completed, (January 2014 - April 2016).  
Advised: John Griffin

## SERVICE

### Department Service

2020 - Present    Committee Member, PHD Committee, Department of Mathematics.

2015 - Present    Committee Member, Curriculum Committee, Department of Mathematics.

2013 - Present    Committee Chair, Mathematics Graduate Program Committee, Department of Mathematics.

2007 - Present    Committee Member, Graduate Screening Committee, Department of Mathematics.

2020 - 2021       Committee Member, Master's Thesis Committee, Department of Mathematics.

2019 - 2020       Committee Chair, Annual Evaluation Committee, Department of Mathematics.

2019 - 2020       Committee Chair, Course coordinator-Real Analysis II, Department of Mathematics.

2019 - 2020       Committee Chair, CPER, Department of Mathematics.

2019 - 2020       Committee Member, Master's Thesis Committee, Department of Mathematics.

2018 - 2019       Committee Member, Mathematics Search Committee.

2017 - 2018       Committee Member, Mathematics Search Committee.

2017 - 2018       Committee Chair, DFRAC.

2006 - 2018       Committee Chair, Colloquium Committee, Department of Mathematics.

2016 - 2017       Committee Member, Mathematics Search Committee.

2013 - 2017       Committee Chair, PhD Committee, Department of Mathematics.

- 2009 - 2015      Committee Chair, DFRAC, Department of Mathematics.
- 2013 - 2014      Committee Member, Annual Evaluation Committee, Mathematics Department.
- 2013 - 2014      Committee Member, Mathematics Search Committee, Department of Mathematics.
- 2012 - 2013      Committee Member, Calculus Committee, Department of Mathematics.
- 2012 - 2013      Committee Member, Research Evaluation Committee, Department of Mathematics.
- 2012 - 2013      Committee Member, Teaching Evaluation Committee, Department of Mathematice.
- 2009 - 2011      Committee Member, Teaching Committee, Department of Mathematics.
- 2009 - 2010      Committee Member, Search Committee-Math. position, Department of Mathematics.
- 2008 - 2010      Committee Member, Search Committee-Math. Edu. position, Department of Mathematics.
- 2007 - 2009      Committee Member, Comprehensive Exam Committee, Department of Mathematics.

**College Service**

- 2015 - 2016      Committee Member, CFRAC, College of Sciences.
- 2010 - 2011      Committee Member, CFRAC, College of Sciences.
- 2009 - 2010      Committee Chair, CFRAC, College of Sciences.

**University Service**

- 2018 - Present    Committee Member, UTSA Academy of Distinguished Researchers, UTSA.

**Professional Service**

- 2015 - Present    Editorial Review Board Member, Banach Journal of Mathematical Analysis, Duke University Press.



- 2014 - Present Reviewer, Journal Article, Advances in Mathematics.
- 2014 - Present Editorial Review Board Member, Journal of Function Spaces.
- 2013 - Present Reviewer, Journal Article, Journal fur die Reine und Angewandte Mathematik.
- 2010 - Present Editorial Review Board Member, Analele Universitatii de Vest din Timisoara, West University of Timisoara.
- 2009 - Present Editorial Review Board Member, International Journal of Mathematics and Mathematical Sciences.
- 1996 - Present Reviewer, Grant Proposal, National Science Foundation, DMS-Analysis.
- 1996 - Present Reviewer, Grant Proposal, United States-Israel Binational Science Foundation.
- 1993 - Present Reviewer, Journal Article, Birkhauser, Operator Theory: Advances and Applications.
- 1993 - Present Reviewer, Journal Article, Documenta Mathematica.
- 1993 - Present Reviewer, Journal Article, Elsevier, Journal of Functional Analysis.
- 1993 - Present Reviewer, Journal Article, Elsevier, Journal of Mathematical Analysis and Applications.
- 1993 - Present Reviewer, Journal Article, Indiana University Mathematics Journal.
- 1993 - Present Reviewer, Journal Article, International Journal of Mathematics and Mathematical Sciences.
- 1993 - Present Reviewer, Journal Article, Memoirs of the American Mathematical Society.
- 1993 - Present Reviewer, Journal Article, Springer, Integral Equations and Operator Theory.
- 1993 - Present Reviewer, Journal Article, Transactions of the American Mathematical Society.
- 2012 - 2017 Editorial Review Board Member, Journal of Operators, Hindawi.
- 1993 - 2017 Reviewer, Journal Article, de Gruyter, Journal fur die Reine und Angewandte Mathematik.

- 1993 - 2017 Reviewer, Journal Article, Elsevier, Comptes Rendus de l'Academie des Sciences.
- 2014 - 2015 Editorial Review Board Member, Conference Papers in Science, Hindawi.
- 1993 - 2015 Reviewer, Journal Article, Springer, Mathematiche Annalen.
- 2012 Reviewer, Grant Proposal, National Science Foundation. Member of an NSF panel, Division of Mathematical Sciences. I read over 30 proposals and wrote reports for 11 proposals
- 2011 Co-organizer, AMS Special Session in Multivariable Operator Theory, New Orleans.
- 2010 Editor, Book. G. Popescu, Operator theory on noncommutative domains, Memoirs of the American Mathematical Society 205 (2010), No.964, vi+124 pp.
- 2009 - 2010 Program Organizer, AMS, Special Sesion in Multivariable Operator Theory.
- 2009 Editor, Book. G. Popescu, Unitary invariants in multivariable operator theory, Memoirs of the American Mathematical Society 200 (2009), no. 941, vi+91pp.
- 2008 Co-organizer, IWOTA, Special Session in Multivariable Operator Theory.
- 1993 - 2008 Reviewer, Journal Article, Acta Scientarum Mathematicarum.
- 1993 - 2008 Reviewer, Journal Article, Berkeley, Pacific Journal of Mathematics.
- 1993 - 2008 Reviewer, Journal Article, Cambridge Univ. Press, Journal of the London Mathematical Society.
- 1993 - 2008 Reviewer, Journal Article, Elsevier, Linear Algebra and Applications.
- 1993 - 2008 Reviewer, Journal Article, Houston Mathematical Journal.
- 1993 - 2008 Reviewer, Journal Article, International Journal of Mathematics.
- 1993 - 2008 Reviewer, Journal Article, Proceedings of the American Mathematical Society.
- 1993 - 2008 Reviewer, Journal Article, Revue Roumaine de Mathematiques Pures et

Appliquees.

- 1993 - 2008 Reviewer, Journal Article, Rocky Mountain Journal of Mathematics.
- 1993 - 2008 Reviewer, Journal Article, Springer, Positivity.
- 1993 - 2008 Reviewer, Journal Article, Theta Foundation. Journal of Operator Theory
- 2006 Editor, Book. G. Popescu, Entropy and multivariable interpolation, Memoirs of the American Mathematical Society 184 (2006), no.868, vi+83 pp.
- 1994 Co-organizer, UTSA Informal Regional Functional Analysis Seminar.

### **Consulting**

- 2012 Academic, Member of NSF panel, Division of Mathematical Sciences

### **Awards, Honors, and Biographical Listings**

- 2018 Member, Academy of Distinguished Researchers, UTSA
- 2015 Faculty Development Leave for Research
- 2015 Member of Panel of Division of Mathematical Sciences, section: Analysis (Operator Theory and Operator Algebras), National Science Foundation
- 2012 Dean's Certificate of Recognition of Valuable Contributions to Research Achivement
- 2012 Member of Panel of Division of Mathematical Sciences, section: Analysis (Operator Theory and Operator Algebras), National Science Foundation
- 2010 Faculty Development Leave for Research
- 2010 Member of the Editorial Board, Analele Universitatii de Vest din Timisoara
- 2009 Member of the Editorial Board, International Journal of Mathematics and Mathematical Sciences
- 2008 Member of Panel of Division of Mathematical Sciences, section:

	Analysis (Operator Theory and Operator Algebras), National Science Foundation
2005	Faculty Development Leave for Research
2004	President's Distinguished Achievement Award for Research Excellence, University of Texas at San Antonio
2000	Faculty Development Leave for Research
1989	Simion Stoilow Prize, Romanian Academy of Sciences

### **Government, Industry, Military and Professional Positions**

1983 - 1991	Researcher, Institute of Mathematics of the Romanian Academy (former INCREST)
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### **Professional Memberships**

2013 - Present	American Mathematical Society
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### **Faculty Development Activities Attended**

2015	Faculty Development Leave, Faculty Development Leave for Research, UTSA
2010	Faculty Development Leave, Faculty Development Leave for Research, UTSA
2005	Faculty Development Leave, Faculty Development Leave for Research, UTSA
2000	Faculty Development Leave, Faculty Development Leave for Research, UTSA