

# CURRICULUM VITAE

KEHE ZHU

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## Contact Information

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## Education

B.S., National University of Defense Technology (China), 1977-1981.

Ph.D., State University of New York at Buffalo, 1983-1986.

## Full Time Employment

Professor, SUNY at Albany, September 1995-present.

Associate Professor, SUNY at Albany, September 1992-August 1995.

Assistant Professor, SUNY at Albany, September 1988-August 1992.

Research Assistant Professor, University of Waterloo, Fall 1988.

Acting Assistant Professor, University of Washington, September 1986-June 1988

## Part Time Positions

Honorary Professor, Hunan Institute of Science and Technology, China.

Adjunct Professor, National University of Defense Technology, China.

Adjunct Professor, Shantou University, China.

## Short-Term Visiting Positions

Mittag-Leffler Institute, Sweden, Spring 1991.

CINVESTAV and UNAM, Mexico, March 2000.

University of Marseille, France, June 2003, June 2006.

Shantou University, China, Summers of 2005, 2006, 2007.

Niigata University, Japan, February 2006.

University of Joensuu, Finland, May 2006.

## Research Grants

1987-1989, National Science Foundation, Grant # DMS-8700284 (Postdoc)

1989-1991, National Science Foundation, Grant # DMS-8901165 (PI)

1991-1994, National Science Foundation, Grant # DMS-9024767 (PI)

1994-1996, National Science Foundation, Grant # DMS-9321964 (PI)

2005-2008, National Science Foundation, Grant # DMS-0500333 (PI)

2006-2009, National Natural Science Foundation (China), with Hasi Wulan.

2010-2010, National Science Foundation, Grant # DMS-1001181 (Co-PI).

### Publications—Books

Analysis on Fock spaces, in preparation.

Theory of Bergman Spaces in the Unit Ball, Mathematical Society of France, 2008,  
with R. Zhao.

Operator Theory in Function Spaces (2<sup>nd</sup> edition), American Mathematical Society, 2007.  
Spaces of Holomorphic Functions in the Unit Ball, Springer, 2005.

Bergman Spaces and Related Topics in Analysis, American Mathematical Society, 2003,  
with A. Borichev and H. Hedenmalm.

Theory of Bergman Spaces, Springer, 2000, with H. Hedenmalm and B. Korenblum.

An Introduction to Operator Algebras, CRC Press, 1993.

Operator Theory in Function Spaces, Marcel Dekker, New York, 1990.

Typical Problems in Mathematical Analysis (in Chinese), Hunan Scientific Publishing  
Company, 1983, with B. Sun and H. Wang, et al.

### Publications—Papers

1. VMO, ESV, and Toeplitz operators on the Bergman space, *Trans. Amer. Math. Soc.* **302** (1987), 617-645. (Ph.D. thesis, supervised by Lewis A. Coburn).
2. BMO on the Bergman spaces of the classical domains, *Bull. Amer. Math. Soc.* **17** (1987), 133-136, with C.A. Berger and L.A. Coburn.
3. Toeplitz operators and function theory in n-dimensions, *Springer Lecture Notes in Mathematics* **1256** (1987), 28-35, with C.A. Berger and L.A. Coburn.
4. The Berizín transform and the invariant Laplacian, preprint, 1987.
5. Function theory on Cartan domains and the Berezin-Toeplitz symbol calculus, *Amer. J. Math.* **110** (1988), 921-953, with C.A. Berger and L.A. Coburn.
6. Duality and Hankel operators on the Bergman spaces of bounded symmetric domains, *J. Funct. Anal.* **81** (1988), 260-278.
7. The Bergman spaces, the Bloch space, and Gleason's problem, *Trans. Amer. Math. Soc.* **309** (1988), 253-268.
8. Positive Toeplitz operators on weighted Bergman spaces of bounded symmetric domains, *J. Operator Theory* **20** (1988), 329-357.
9. Multipliers of BMO in the Bergman metric with applications to Toeplitz operators, *J. Funct. Anal.* **87** (1989), 31-50.
10. Hankel-Toeplitz type operators on  $L^1_a(\Omega)$ , *Integral Equations and Operator Theory* **13** (1990), 285-302.
11. BMO in the Bergman metric on bounded symmetric domains, *J. Funct. Anal.* **93** (1990), 310-350, with D. Bé kollé, C.A. Berger, and L.A. Coburn.
12. Hilbert-Schmidt Hankel operators on the Bergman space of the open unit ball, *Proc. Amer. Math. Soc.* **109** (1990), 721-730.
13. On certain composition operators and unitary operators, *Proc. Symp. Pure Math.* **51**, Part II, 371-385, Amer. Math. Soc., Providence, 1990.
14. Möbius invariant Hilbert spaces of holomorphic functions in the unit ball of  $\mathbb{C}^n$ , *Trans. Amer. Math. Soc.* **323** (1991), 823-842.
15. Hankel operators on the Bergman space of bounded symmetric domains, *Trans. Amer. Math. Soc.* **324** (1991), 707-730.
16. Analytic Besov spaces, *J. Math. Anal. Appl.* **157** (1991), 318-336.

17. Schatten class Hankel operators on the Bergman space of the unit ball, *Amer. J. Math.* **113** (1991), 147-167.
18. Duality of Bloch spaces and norm convergence of Taylor series, *Michigan Math. J.* **38** (1991), 89-101.
19. A Forelli-Rudin type theorem, *Complex Variables* **16** (1991), 107-113.
20. Functions of bounded mean oscillation in the Bergman metric of bounded symmetric domains, *Proc. Symp. Pure Math.* **52**, Part I, 251-262, Amer. Math. Soc., Providence, 1991.
21. Boundary behavior of derivatives of analytic functions, *Michigan Math. J.* **39** (1992), 129-143, with S. Axler.
22. Composition operators belonging to Schatten classes, *Amer. J. Math.* **114** (1992), 1127-1145, with D. Luecking.
23. BMO and Hankel operators on Bergman spaces, *Pacific J. Math.* **155** (1992), 377-395.
24. On the failure of optimal factorization for certain weighted Bergman spaces, *Complex Variables* **19** (1992), 165-176, with H. Hedenmalm.
25. Totally monotone functions with applications to the Bergman space, *Trans. Amer. Math. Soc.* **337** (1993), 795-806, with B. Korenblum, R. O'Neil, and K. Richards.
26. Bloch type spaces of analytic functions, *Rocky Mountain J. Math.* **23** (1993), 1143-1177.
27. Zeros of functions in Fock spaces, *Complex Variables* **21** (1993), 87-98.
28. Bergman and Hardy spaces with small exponents, *Pacific J. Math.* **162** (1994), 189-199.
29. Distances and Banach spaces of holomorphic functions on complex domains, *J. London Math. Soc.* (2) **49** (1994), 163-182.
30. Weighted Bergman projections on the polydisc in  $\mathbb{C}^n$ , *Houston J. Math.* **20** (1994), 275-292.
31. Interpolating sequences for the Bergman space, *Michigan Math. J.* **41** (1994), 73-86.
32. Holomorphic Besov spaces on bounded symmetric domains, *Quart. J. Math. Oxford* (2) **46** (1995), 239-256.
33. Coefficient multipliers between Bergman and Hardy spaces, *Mathematik* **42** (1995), 413-426.
34. Hyponormal Toeplitz operators with polynomial symbols, *Integral Equations and Operator Theory* **21** (1995), 376-381.
35. Evaluation operators on the Bergman space, *Math. Proc. Camb. Phil. Soc.* **117** (1995), 513-523. with H. Hedenmalm and B. Korenblum.
36. Holomorphic Besov spaces on bounded symmetric domains II, *Indiana Univ. Math. J.* **44** (1995), 1017-1031.
37. An application of Tauberian theorems to Toeplitz operators, *J. Operator Theory* **33** (1995), 353-361, with Boris Korenblum.
38. Harmonic analysis on bounded symmetric domains, in the book "Harmonic Analysis in China" (Kluwer Academic Publishers, 1995), 287-307.
39. Beurling type invariant subspaces of the Bergman spaces, *J. London Math. Soc.* (2) **53** (1996), 601-614, with H. Hedenmalm and B. Korenblum.
40. Sub-Bergman Hilbert spaces on the unit disk, *Indiana Univ. Math. J.* **45** (1996), 165-176.
41. A class of Toeplitz operators on the Hardy space, in the book "Functional Analysis in China" (Kluwer Academic Publishers, 1996), 366-373.
42. Restriction of the Bergman shift to an invariant subspace, *Quarterly J. Math.* (2) **48** (1997), 519-532.

43. Interpolating and recapturing in reproducing Hilbert spaces, *Bull. Hong Kong Math. Soc.* **1** (1997), 21-33.
44. A class of operators associated with reproducing kernels, *J. Operator Theory* **38** (1997), 19-24.
45. Maximal inner spaces and Hankel operators on the Bergman space, *Integral Equations and Operator Theory* **31** (1998), 371-387.
46. Operators in Cowen-Douglas classes, *Illinois J. Math.* **44** (2000), 767-783.
47. A sharp estimate for extremal functions, *Proc. Amer. Math. Soc.* **128** (2000), 2577-2583.
48. Reducing subspaces for a class of multiplication operators, *J. London Math. Soc.* **62** (2000), 553-568.
49. Schatten class composition operators on weighted Bergman spaces of the unit disk, *J. Operator Theory* **46** (2001), 173-181.
50. A trace formula for multiplication operators on invariant subspaces of the Bergman space, *Integral Equations and Operator Theory* **40** (2001), 244-255.
51. Inner and outer functions in Bergman spaces, in *Proceedings of the International Conference on Function Theory* (edited by E. Kwon, B. Choe, and H. Koo), 2001, Seoul, Korea, 47-56.
52. Some differential and integral equations with applications to Toeplitz operators, with Young Joo Lee, *Integral Equations and Operator Theory* **44** (2002), 466-479.
53. Reducing subspaces of weighted shift operators, *Proc. Amer. Math. Soc.* **130** (2002), 2631-2639, with M. Stessin.
54. Generalized factorization in Hardy spaces and the commutant of Toeplitz operators, with M. Stessin, *Canadian J. Math.* **55** (2003), 379-400.
55. Spectral properties of multiplication operators on invariant subspaces of the Bergman space, *Complex Variables* **48** (2003), 649-655.
56. Sub-Bergman Hilbert spaces in the unit disk II, *J. Funct. Anal.* **202** (2003), 327-341.
57. The root operator on invariant subspaces of the Bergman space, *Illinois J. Math.* **47** (2003), 1227-1242, with R. Yang.
58. Comparing holomorphic gradients in the unit ball, preprint, 2003, incorporated into *Spaces of Holomorphic Functions in the Unit Ball*.
59. BMO in the Bergman metric on the unit ball of  $C^n$ , preprint, 2003, incorporated into *Spaces of Holomorphic Functions in the Unit Ball*.
60. Some characterizations of holomorphic Lipschitz spaces in the unit ball of  $C^n$ , preprint, 2004, incorporated into *Spaces of Holomorphic Functions in the Unit Ball*.
61. Irreducible multiplication operators on spaces of analytic functions, *J. Operator Theory* **51** (2004), 377-385.
62. Translating certain inequalities between Hardy and Bergman spaces, *Amer. Math. Monthly* **111** (2004), 520-525.
63. Complemented invariant subspaces in Bergman spaces, *J. London Math. Soc.* **71** (2005), 467-480, with B. Korenblum.
64. Bergman type projections on  $L^p$  spaces, *Analysis in Theory and Applications* **21** (2005), 157-165.
65. Composition operators on embedded disks, *J. Operator Theory* **56** (2006), 423-449, with M. Stessin.
66. Composition operators induced by symbols defined on a polydisk, *J. Math. Anal. Appl.* **319** (2006), 815-829, with M. Stessin.

67. A class of integral operators on the unit ball of  $C^n$ , *Integral Equations and Operator Theory* **56** (2006), 71-82, with O. Kures.
68. A sharp norm estimate of the Bergman projection on  $L^p$  spaces, *Contemporary Mathematics* **404** (2006), 199-205.
69. The Mobius invariance of Besov spaces on the unit ball, in *Complex Analysis and its Applications* (Y. Wang, S. Wu, H. Wulan, and L. Yang, editors), World Scientific Publishing Co., 2006, 328-337.
70. A class of Mobius invariant function spaces, *Illinois J. Math.* **51** (2007), 977-1002.
71. Compact composition operators on Bergman spaces of the unit ball, *Houston J. Math.* **33** (2007), 273-283.
72. Derivative-free characterizations of  $Q_K$  spaces, *J. Australia Math. Soc.* **82** (2007), 283-295, with Hasi Wulan.
73. Lacunary series in  $Q_K$  spaces, *Studia Math.* **178** (2007), 217-230, with Hasi Wulan.
74. Schatten class Toeplitz operators on weighted Bergman spaces of the unit ball, *New York J. Math.* **13** (2007), 299-316.
75. Characterizations of Bergman spaces, in *Function Spaces and Classes--Joensuu 2006*, Univ. Joensuu Dept. Phys. Math. Rep. Ser. **12** (2007), 79-88.
76. Bloch and BMO functions in the unit ball, *Complex Variables* **53** (2008), 1009-1019, with Hasi Wulan.
77.  $Q_K$  spaces via higher order derivatives, with Hasi Wulan, *Rocky Mountain J. Math.* **38** (2008), 329-350.
78. Theory of Bergman spaces on the unit ball, *Memoires de la SMF* **115** (2008), 103 pages, with R. Zhao.
79. New characterizations of Bergman spaces, *Ann. Acad. Sci. Fen.* **33** (2008), 87-99, with Miroslav Pavlovic.
80. Integral operators induced by the Fock kernel, *Integral Equations and Operator Theory* **60** (2008), 217-236, with Milutin Dostanic.
81. Compactness of Hankel operators on Hardy-Sobolev spaces of the polydisk, *J. Operator Theory* **61** (2009), 301-312, with Patrick Ahern and Hassan Youssfi.
82. Lipschitz type characterizations for Bergman spaces, *Canad. Math. Bull.* **52** (2009), 613-626, with Hasi Wulan.
83. A characterization of Bergman spaces on the unit ball of  $C^n$ , *Glasgow Math. J.* **51** (2009), 315-330, with Songxiao Li, Hasi Wulan, and Ruhan Zhao.
84. Composition operators on the polydisk induced by smooth symbols, with H. Koo and M. Stessin, *J. Funct. Anal.* **254** (2008), 2911-2925.
85. Addendum to "New characterizations of Bergman spaces", *Ann. Acad. Sci. Fenn.* **34** (2009), 315-317, with Miroslav Pavlovic.
86. Compact composition operators on BMOA and the Bloch space, *Proc. Amer. Math. Soc* **137** (2009), 3861-3868, with Hasi Wulan and Dechao Zheng.
87. A characterization of Bergman spaces on the unit ball of  $C^n$ , II, with Songxiao Li and Hasi Wulan, to appear in *Canad. Math. Bull.*.
88. Holomorphic mean Lipschitz spaces and Hardy Sobolev spaces on the unit ball, to appear in *Complex Variables and Elliptic Equations*, with H.R. Cho.
89. Toeplitz operators on the Fock space, *Integral Equations and Operator Theory* **66** (2010), 593-611, with Josh Isralowitz.

90. A sharp norm estimate for weighted Bergman projections on the minimal ball in  $C^n$ , preprint, 2010, with Jocelyn Gonessa.
91. Volume integral means of holomorphic functions, preprint, 2010, with Jie Xiao.

### **Invited Talks at Conferences and Workshops**

1. "Toeplitz operators on the Bergman space  $L^1_a(\Omega)$  and functions of logarithmic mean oscillation" at the special session on "Toeplitz Operators and Geometry" of the 839th AMS meeting in Atlanta, Georgia, Jan. 6-9, 1988.
2. "Analytic Besov spaces" at the special session on "Operator Theory and Applications to Geometry" of the 845th AMS meeting in Lawrence, Kansas, Oct. 28-29, 1988.
3. "Holomorphic Besov spaces on bounded symmetric domains" at the special session on "Multidimensional Complex Analysis and Operator Theory" of the 869th AMS meeting in Fargo, North Dakota, Oct. 25-26, 1991.
4. "Weighted Bergman projections on the polydisc" at the special session "Bergman Spaces" of the 98th AMS Annual Meeting in Baltimore, Maryland, Jan. 8-11, 1992.
5. "Hyponormal Toeplitz operators with polynomial symbols" at the special session "Holomorphic spaces" of the 99th AMS Annual Meeting in San Antonio, Texas, Jan. 13-16, 1993.
6. "Theory of Bergman spaces", invited lectures (3) at the National University of Defense Technology in China, June 1-10, 1993.
7. "Canonical factorization in Bergman spaces", invited lecture at Zhongshan University in China, July 19, 1993.
8. "Invariant subspaces of the Bergman space", invited one-hour lecture at the Northeastern Operator Algebras/Operator Theory Meeting, West Chester University, Oct. 10, 1993.
9. "Restriction of the Bergman shift to invariant subspaces" at the special session "Operator Theory" of the AMS Meeting 891, Manhattan, Kansas, March 25, 1994.
10. "Restriction of the Bergman shift to an invariant subspace" at the Mount Holyoke summer conference on "Bergman spaces and the operators that act on them", July 1994.
11. "Hankel operators and invariant subspaces on the Bergman space" at the special session "Banach Spaces of Analytic Functions" at the AMS meeting 896 in Richmond, Virginia, Nov 1994.
12. "Interpolating and recapturing in reproducing Hilbert spaces", invited one-hour talk at the Beijing International Conference on Harmonic and Wavelet Analysis, Beijing, 1996.
13. "Inner-outer factorization in Bergman spaces", invited one-hour talk at Zhongshan University, Guangzhou, China, 1996.
14. "Schatten class composition operators on the Bergman space", invited 30 minute talk at the First International Congress of Chinese Mathematicians, Beijing, China, 1998.
15. "Reducing subspaces of multiplication operators", invited series of three lectures at the Mexican Institute for Advanced Studies, Mexico City, 2001.
16. "Inner and outer functions in Bergman spaces", invited series of three lectures at the International Conference of Function Theory, Seoul, Korea, 2001.
17. "Sub-Bergman Hilbert spaces in the unit disk", invited talk at the "Week of Holomorphic Function Spaces and their Operators", International Center of Mathematical Research, Marseille, France, 2002.
18. "The root operator on invariant subspaces of the Bergman space", invited talk at the conference on "Spaces of analytic and smooth functions", Poland, April, 2003.

19. "Complemented invariant subspaces in Bergman spaces", invited talk at the special session "Spaces of analytic functions" at the First Joint Meeting of American Mathematical Society and the Real Sociedad Matematica Espanola, Seville, Spain, June 2003.
20. "The Bergman projection and related integral operators", invited talk at the conference "Bergman Spaces and Related Topics in Complex Analysis", Barcelona, Spain, November, 2003.
21. "Holomorphic Lipschitz spaces in the unit ball", invited one-hour talk at the University of Science and Technology of China, July, 2004.
22. "Bergman spaces and related operators", one-hour plenary talk at the International Conference on Analysis and its Applications, Nanjing, China, July, 2004.
23. "Composition on embedded disks", invited one-hour talk at the "Symposium on Function Spaces and Operator Theory", Shantou, China, December, 2004.
24. "Bergman spaces", invited one-hour talk at the Mathematics Institute of the Chinese Academy of Sciences, July, 2005.
25. "Spaces of holomorphic functions in the unit ball", a series of three lectures at Shantou University, China, July 2005.
26. "Theory of Bergman Spaces in the Unit Ball", one-hour plenary talk at the 13th International Conference on Finite and Infinite Dimensional Complex Analysis and Applications, Shantou, China, August, 2005.
27. "Weighted Bergman spaces in the unit ball", plenary talk at the conference "Recent Advances in Operator Related Function Theory II", El Escorial, Spain, October, 2005.
28. "Composition operators in several complex variables", one hour talk at the "Workshop on Operator Theory and Operator Algebras", SUNY at Buffalo, April 22-23, 2006.
29. "Introduction to Operator Theory and Operator Algebras", a series of three talks at Shantou University, China, May 10-12, 2006.
30. "Functions of bounded mean oscillation", one hour talk at the "International Conference on Harmonic Analysis", Hunan University, Changsha, China, May 15-22, 2006.
31. "Spaces of holomorphic functions in the unit ball", a series of four lectures at the Summer School on Function Spaces, University of Joensuu, Finland, May 22-28, 2006.
32. "A class of  $M$ -invariant function spaces", plenary talk at the "International Conference on Function Spaces", University of Joensuu, Finland, May 29-June 2, 2006.
33. " $M$ -invariant function spaces in the unit disk", 45-minute talk at "Spaces of Analytic Functions and Their Operators", CIRM, Marseille, France, June 4-8, 2006.
34. "Operator Theory Related to the Bergman Shift", a series of five talks at Shantou University, China, July 2006.
35. "Pointwise estimates of extremal functions for invariant subspaces of weighted Bergman spaces", invited talk at the "Extremal problems in mathematical analysis", Moscow, summer 2007.
36. "Bergman spaces in one and several variables", series lectures at the "Summer workshop on function spaces and operator theory", Shantou University, July 2007.
37. "Toeplitz operators and the Berezin transform", a series of two invited talks at Moscow State University, January 2008.
38. "Composition operators in several complex variables", invited main talk at the conference "Analysis, Operator Theory, and Applications", Cancun, Mexico, April 2008.

39. “Toeplitz operators on weighted Bergman spaces of the unit ball”, invited main talk at the “Operator Theory with Applications to Geometry and Topology”, Qinhuangdao, China, June 2008.
40. “Characterizations of Bergman spaces”, invited main talk at the “International Conference on Operator Algebras and Harmonic Analysis”, Guangzhou, China, December 2008.
41. “BMO and Hankel operators”, invited talk at the “International Conference on Harmonic Analysis and Partial Differential Equations with Applications”, Beijing Normal University, China, May 2009.
42. “Toeplitz operators on the Fock space”, invited talk at the “7<sup>th</sup> International ISAAC Congress”, London, July 2009.
43. “Holomorphic mean Lipschitz spaces”, invited talk at the “7<sup>th</sup> International ISAAC Congress”, London, July 2009.
44. “Bergman spaces in the unit ball”, invited talk at the “23<sup>rd</sup> Auburn Mini-conference on Harmonic Analysis and Related Areas”, December 2009.
45. “Compactness of Hankel operators on the Hardy space of the polydisc”, invited talk at the 2009 Joint Meeting of the AMS and KMS, December 17, 2009, Seoul, Korea.
46. Invited seminar/colloquium talks at UC-Berkeley (1985), Washington University in St. Louis (1986, 1996), the University of Toronto (1988, 2009), the University of Waterloo (1988), SUNY-Buffalo (1988, 1991, 1994), Hong Kong University of Science and Technology (1993, 1996), University of Vermont (1995), Wright State University (1998), University of Toledo (2003), Niigata University of Japan (2006), San Francisco State University (2007), Wichita State University (2007), Memorial University of Newfoundland (2009).

#### **Ph.D. Students**

Kevin Madigan (1993)  
 Eric Grossman (1995)  
 Weisheng Yang (2002)  
 Osman Kures (2004)

#### **Postdoctoral Associates**

Young Joo Lee, Mokpo University, Korea, 1999; 2010-2011.  
 Ja Young Kim, Sookmyung Women's University, Korea, 2003.  
 Maofa Wang, Wuhan University, China, 2007.  
 Chunjie Wang, Hebei Institute of Technology, China, 2010.

#### **Committee/Community Work**

1. President of the Chinese Student Association (SUNY-Buffalo), 1985-1986.
2. Member of the Graduate Programs Committee (College of Science, SUNYA), 1990-1991.
3. Member of various departmental committees since 1992.
4. Director of Undergraduate Studies (Math Dept), 1995-1998.
5. Member of the University Senate (SUNY-Albany), 2006-2008.
6. Member of the senate Council on University Life (SUNY-Albany), 2006-2008.
7. Chair of the Department of Mathematics and Statistics (SUNY-Albany), 2009-present.
8. Member of the HVCC Math and Engineering Advisory Committee, 2010-present.
9. Reviewer of Math Reviews and Zentralblatt Math.

### **Conferences Organized or Co-organized**

1. “Sun Institute of Mathematics”, Princeton, April 1995.
2. “Bergman Spaces and Related Topics in Complex Analysis”, Barcelona, Nov 2003.
3. “13<sup>th</sup> International Conference on Finite and Infinite Dimensional Complex Analysis and Applications”, Shantou, August 2004.
4. “International Workshop on Operator Theory in Spaces of Analytic Functions”, Albany, February 2009.
5. “Operator Theory in Analytic Function Spaces”, special session at the first Joint Meeting of the American Mathematical Society and the Korean Mathematical Society, Seoul, Dec 2009.
6. “Recent Advances in Function Related Operator Theory”, Puerto Rico, March 2010.
7. “Complex Analysis and Operator Theory”, special session of the AMS-SMM Eighth International Meeting, Berkeley, CA, June 2-4, 2010.

### **Membership in Professional Organizations**

American Mathematical Society  
Mathematical Association of America

### **Awards and Other Honors**

1. Excellence in Research Award, SUNY-Albany, 2007.
2. First place in the Hunan (Provincial) Mathematics Competition for University Students, Hunan, China, 1981.
3. University graduate fellowship, SUNY-Buffalo, 1984-1986.
4. Inclusion in “Who is Who in America” and “Who is Who in the World” (multiple years).