

# CURRICULUM VITAE

Steven G. Krantz

**Date of Birth:** February 3, 1951

**Home Address:** 12 Princeton Place, University City, Missouri 63130

**Telephone:** (314) 935-6712 (office)  
(314) 935-6839 (office FAX)  
(314) 862-1431 (home)  
(314) 335-7344 (home FAX)

**e-mail address:** `sk@math.wustl.edu`

**Graduate Education:** Ph.D. , Mathematics, Princeton University, 1974  
Thesis directed by E. M. Stein

**Undergraduate Education:** B.A. , University of California, Santa Cruz,  
1971

**Honors :** Participant, NSF Summer Mathematics Research Program, 1968  
Highest University Honors and College Honors, 1971  
Crown-Zellerbach Foundation Graduate Fellow, 1971  
National Science Foundation Graduate Fellow, 1971-1974  
Woodrow Wilson Foundation Designate, 1971  
Visiting Professor, Universite de Paris-Sud, 1977  
UCLA Alumni Foundation Distinguished Teaching Award, 1979  
Visiting Professor, Princeton University, 1980  
Visiting Fellow, Institute for Advanced Study, 1981  
Visiting Professor, Uppsala University, 1984  
Visiting Professor, Beijing University, 1984  
Visiting Professor, University of Umeå, 1986

Visiting Professor, University Autonoma de Madrid, 1986  
Visiting Professor, Mittag-Leffler Institute, 1988  
Visiting Professor, Universite Paul Sabatier, 1988  
Principal Speaker, Complex Analysis Conference, Cetraro, 1989  
Head of Organizing Committee, AMS Summer Institute,  
Santa Cruz, 1989  
Chauvenet Prize of the MAA, 1992  
Principal Speaker, CBMS Conference, George Mason  
University, 1992  
Principal Speaker, Southeastern Functional Analysis  
Meeting, 1993  
Visiting Professor, Politecnico Torino, 1993  
Principal Speaker, AMS Summer Research Institute on  
Operator Theory, 1993  
Beckenbach Prize of the MAA, 1994  
Kemper Foundation Education Grant, 1994  
Principal Speaker, NATO Conference on Several  
Complex Variables, Edinburgh, 1995  
Richardson Fellow, Australian National University, 1995  
Visiting Professor and Organizer of Special Year,  
Mathematical Sciences Research Institute, 1995-1996  
Organizer, Conference on Current Issues in Modern  
Issues of Mathematics Teaching, MSRI, 1996  
Organizer and Principal Lecturer, Conference on Several  
Complex Variables, Pohang Institute of Science  
and Technology, Korea, 1997  
Frontiers Speaker, Texas A&M, 1997  
Organizer and Principal Lecturer, Conference in Honor of  
Lars V. Ahlfors, Stanford University, 1997  
“Outstanding Academic Book Award”, Current Review for  
Academic Libraries, 1998.  
Nagle Memorial Lecturer, University of South Florida, 1998  
Organizer and Principal Lecturer, Conference on Several  
Complex Variables, Seoul National University, 1998

Organizer, Holomorphic Mappings Conference and Workshop,  
 American Institute of Mathematics 2000  
 Distinguished Lecturer, Allegheny College, 2001.  
 Court Lecturer, Mathematical Association of America, 2002.  
 Principal Speaker, Discrete Geometry Conference, Tallahassee, 2002.  
 Principal Speaker, MER Workshop, St. Louis, 2002.  
 Court Lecturer of the MAA, 2003  
 Discrete Geometry Conference, Tallahassee, 2003  
 Functional Analysis Conference, Edwardsville, 2003  
 Distinguished Lecturer, MAA Meeting, Claremont, 2003  
 Distinguished Lecturer, Bowdoin College, 2003  
 Oregon State University (Arvid Longseth Lecturer), 2004  
 MSRI/Evans lecture series, 2004  
 Circles Lecturer, San Jose State, 2005  
 Principal Lecturer, Annual AMS/MAA meeting in Atlanta, 2005  
 Principal Lecturer, MAA Regional Meeting, Moraga, 2005  
 Principal Lecturer, SEAM Meeting, William & Mary College, 2005  
 Judge, Siemens-Westinghouse Science Fair, 2005  
 Principal Speaker, Edinboro Univ. of Pennsylvania, 2006  
 Principal Organizer, Conference at PIMS in Banff, 2006  
 Principal Organizer, Conference at Banach Center, 2007  
 Principal Speaker, Conference at Poincare Center to Honor G. M. Henkin, 2007  
 Faculty Mentor Award, Washington University, 2007  
 Editor, special issue of *Complex Variables and Elliptic Equations*  
 Chief Editor, *Notices of the AMS*, 2010-2012  
 Plenary Speaker, Buckeye Symposium, Wooster, Ohio, 2010  
 Buckingham Scholar, Miami University in Oxford, Ohio, 2010  
 Thirty-Eighth Biennial Convention of Kappa Mu Epsilon, Harris-Stowe  
 State University, Principal Speaker, 2011  
 Math Retreat, University of Wisconsin, Eau Claire, Principal Speaker, 2011  
 Conference to honor S. G. Krantz for his 60th birthday and  
 J. E. Fornæss for his 65th birthday, 2011

**Academic Positions Held:** Assistant Professor, UCLA, 1974-1981  
 Associate Professor, Pennsylvania State  
 University, 1981-4

Professor, Pennsylvania State University, 1984-7  
Professor, Washington University, 1986 - present.

## BIBLIOGRAPHY

Steven G. Krantz

### Published, Accepted, or Completed Papers

1. Optimal Lipschitz and  $L^p$  regularity for the equation  $\bar{\partial}u = f$  on strongly pseudo-convex domains, *Math. Annalen* 219(1976), 233-260.
2. Structure and interpolation theorems for certain Lipschitz spaces and estimates for the  $\bar{\partial}$ -equation, *Duke Math. J.* 43(1976), 417-439.
3. Optimal Lipschitz and  $L^p$  estimates for the equation  $\bar{\partial}u = f$  on strongly pseudo-convex domains, *Bull. Amer. Math. Soc.* 82(1976), 51-52.
4. Intrinsic Lipschitz classes on manifolds with applications to complex function theory and estimates for the  $\bar{\partial}$  and  $\bar{\partial}_b$  equations, *Manuscripta Math.* 24(1978), 351-378.
5. Smoothness of harmonic and holomorphic functions, *Proc. Symp. Pure Math.*, Vol. 35 (1979) (S. Wainger and G. Weiss, eds.), 63-67.
6. Characterizations of various domains of holomorphy via  $\bar{\partial}$ - estimates and applications to a problem of Kohn, *Illinois J. Math.* 23(1979), 267-285.
7. (with Nicholas P. Jewell) Toeplitz operators and related function algebras on certain pseudo-convex domains, *Trans. Amer. Math. Soc.* 252(1979), 297-312.
8. Geometric Lipschitz spaces and applications to complex function theory and nilpotent groups, *J. Funct. Anal.* 34(1980), 456-471.
9. Lipschitz spaces on stratified groups, *Trans. Am. Math. Soc.* 269(1982), 39-66.
10. Finite type conditions and elliptic boundary value problems, *Jour. Diff. Eq.* 34(1979), 239-260.
11. (with John Erik Fornæss) Continuously varying peaking functions, *Pac. Jour. Math.* 83(1979), 341-347.
12. Analysis on the Heisenberg group and estimates for functions in Hardy classes of several complex variables, *Math. Annalen* 244(1979), 243-262.

13. Estimates for integral kernels of mixed type, fractional integration operators, and optimal estimates for the  $\bar{\partial}$ -operator, *Manuscripta Math.* 30(1979), 21-52.
14. (with R. E. Greene) Stability properties of the Bergman kernel and curvature properties of bounded domains, *Recent Developments in Several Complex Variables* (J. E. Fornæss, ed.), Princeton University Press (1979), 179-198.
15. Boundary values and estimates for holomorphic functions of several complex variables, *Duke Math. Jour.* 47(1980), 81-98.
16. Fractional integration on Hardy spaces, *Studia Math.* 73(1982), 87-94.
17. Holomorphic functions of bounded mean oscillation and mapping properties of the Szegő projection, *Duke Math. Jour.* 47(1980), 743-761.
18.  $H^p(\mathbb{R}^n)$  is equidistributed with  $L^p(\mathbb{R}^n)$ , *Commentari Math. Helvetici* 56(1981), 136-141.
19. (with Harold R. Parks) Distance to  $C^k$  manifolds, *Jour. Diff. Equations* 40(1981), 116-120.
20. (with R. E. Greene) Deformations of complex structure, estimates for the  $\bar{\partial}$ -equation, and stability of the Bergman kernel, *Advances in Math.* 43(1982), 1-86.
21. (with R. E. Greene) The automorphism groups of strongly pseudoconvex domains, *Math. Annalen* 261(1982), 425-446.
22. (with R. E. Greene) The stability of the Bergman kernel and the geometry of the Bergman metric, *Bull. Am. Math. Soc.* 4(1981), 111-115.
23. (with Joseph A. Cima) The Lindelöf principle and normal functions of several complex variables, *Duke Math. Jour.* 50(1983), 303-328.
24. (with R. E. Greene) Stability of the Carathéodory and Kobayashi metrics and applications to biholomorphic mappings, *Proceedings of Symposia in Pure Mathematics*, Vol. 41 (1984), 77-93.
25. Characterizations of smooth domains in  $\mathbb{C}$  by their biholomorphic self maps, *Am. Math. Monthly* 90(1983), 555-557.
26. (with R. E. Greene) Normal families and the semicontinuity of isometry and automorphism groups, *Math. Zeitschrift* 190(1985), 455-467.
27. Lipschitz spaces, smoothness of functions, and approximation theory, *Expositiones Math.* 3(1983), 193-260.
28. (with R. E. Greene) Characterizations of certain weakly pseudo-convex do-

- mains with non-compact automorphism groups, in *Complex Analysis Seminar*, Springer Lecture Notes 1268(1987), 121-157.
29. (with J. A. Cima and T. Suffridge) A reflection principle for proper holomorphic mappings of strongly pseudoconvex domains and applications, *Math. Z.* 186(1984), 1-8.
  30. (with J. Duncan and H. R. Parks) Non-linear conditions for differentiability of functions, *Jour. d'Analyse Mathématique* 45(1985), 46-68.
  31. (with R. E. Greene) Characterization of complex manifolds by the isotropy subgroups of their automorphism groups, *Indiana Univ. Math. J.* 34(1985), 865-879.
  32. (with S. R. Bell) Smoothness to the boundary of conformal mappings, *Rocky Mountain J. Math.* 17(1987), 23-40.
  33. (with T. D. Parsons) Antisocial subcoverings of self-centered covers, *Am. Math. Monthly* 93(1986), 45-48.
  34. (with P. Erdős, C. Godsil, and T. D. Parsons) Intersection graphs for families of balls in  $\mathbb{R}^n$ , *Eur. J. Combin.* 9(1988), 501-505.
  35. Integral formulas in complex analysis, a chapter in *The Beijing Lectures in Harmonic Analysis*, Annals of Mathematics Studies, Princeton University Press, Princeton, v. 112(1986), 185-240.
  36. Functions of Several Complex Variables and Analytic Spaces, *The Encyclopedia of Physical Science and Technology*, Academic Press, v. 5(1986), 698-722.
  37. Functions of One Complex Variable, *The Encyclopedia of Physical Science and Technology*, Academic Press, v. 5(1986), 662-693. What is several complex variables?, *Am. Math. Monthly* 94(1987), 236-256.
  39. Fatou theorems on domains in  $\mathbb{C}^n$ , *Bull. Am. Math. Soc.*, 16(1987), 93-96.
  40. Recent progress and future directions in several complex variables, in *Complex Analysis Seminar*, Springer Verlag Lecture Notes 1268(1987), 1-23.
  41. (with Robert E. Greene) Biholomorphic self-maps of domains, *Complex Analysis II* (C. Berenstein, ed.), Springer Lecture Notes, vol. 1276, 1987, 136-207.
  42. (with Gordon Chen, Daowei Ma, C. Eugene Wayne, and H. H. West), The Euler-Bernoulli beam equation with boundary energy dissipation, in *Operator Methods for Optimal Control Problems* (Sung J. Lee, ed.), Marcel Dekker, New York, 1988, 67-96.

43. Invariant metrics and the boundary behavior of holomorphic functions on domains in  $\mathbb{C}^n$ , *Jour. Geometric. Anal.* 1(1991), 71-98.
44. (with Daowei Ma) Bloch functions on strongly pseudoconvex domains, *Indiana Univ. Math. J.* 37(1988), 145-163.
45. (with Daowei Ma) On isometric isomorphisms of the Bloch space in several complex variables, *Michigan Math. J.* 36(1989), 173-180.
46. A compactness principle in complex analysis, *Division de Matematicas, Univ. Autonoma de Madrid Seminarios*, vol. 3, 1987, 171-194.
47. Lectures on Hardy spaces in complex domains, *University of Umeå Lecture Notes*, 1987, 1-63.
48. (with G. Chen, C. E. Wayne, and H. H. West), Analysis, designs, and behavior of dissipative joints for coupled beams, *SIAM Jr. Appl. Math.*, 49(1989), 1665-1693.
49. Compactness of the  $\bar{\partial}$ -Neumann Operator, *Proc. Am. Math. Soc.* 103(1988), 1136-1138.
50. On a theorem of Stein I, *Trans. AMS* 320(1990), 625-642.
51. (with G. Chen, D. Russell, C. E. Wayne, H. West, J. Zhou), Modelling, analysis and testing of dissipative beam joints—experiments and data smoothing, *Math. Comp. Modelling* (E. Rodin, ed.) 11(1988), 1011-1016.
52. Mathematical Anecdotes, *Mathematical Intelligencer*, 12 (1990), 32-38.
53. (with Der Chen Chang), Holomorphic Lipschitz functions and applications to estimates for the  $\bar{\partial}$ -problem, *Colloq. Math.* 63 (1991).
54. (with William Paulsen), Eigenvalue asymptotics for the  $N$ - beam Euler-Bernoulli coupled beam equation with dissipative joints, *Jour. Symb. Computation* 11(1991), 369-418.
55. On the boundary behavior of the Kobayashi metric, *Rocky Mountain J. Math.*, 22(1992).
56. (with R. E. Greene), Techniques for Studying the Automorphism Groups of Weakly Pseudoconvex Domains, Proceedings of the Special Year at the Mittag-Leffler Institute (J. E. Fornæss and C. O. Kiselman, eds.) *Annals of Math. Studies*, Princeton Univ. Press, Princeton, 1992.
57. (with H. R. Parks), On the vector sum of two convex sets, *Can. Jour. Math.* 43(1991), 347-355.
58. (with G. Aladro), A criterion for normality in  $\mathbb{C}^n$ , *J. Math. Anal. Applic.*,

- 1991.
59. (with Robert E. Greene), Invariants of Bergman geometry and results concerning the automorphism groups of domains in  $\mathbb{C}^n$ , Proceedings of the 1989 Conference in Cetraro (D. Struppa, ed.), 1991.
  60. Convexity in complex analysis, *Proceedings of Symposia in Pure Mathematics* v. 52, part 1, (E. Bedford, J. D'Angelo, R. Greene, and S. Krantz eds.), American Mathematical Society, Providence, 1991, 119-137.
  61. (with Der Chen Chang)  $H^p$  regularity for NIS operators on weakly pseudoconvex domains of finite type in  $\mathbb{C}^2$ , *Proceedings of Symposia in Pure Mathematics* v. 52, part 3, (E. Bedford, J. D'Angelo, R. Greene, and S. Krantz eds.), American Mathematical Society, Providence, 1991, 35-53.
  62. On the area inside a circle, *Missouri Journal of Mathematics*, 1992.
  63. (with Norberto Salinas) Proper holomorphic mappings and the Cowen-Douglas class, *Proc. Am. Math. Soc.*, 1992.
  64. (with Der Chen Chang and E. M. Stein) Hardy Spaces and Elliptic Boundary Value Problems, Proceedings of a Conference in Honor of Walter Rudin, American Mathematical Society, 1992.
  65. (with Akio Kodama and Daowei Ma) A characterization of generalized complex ellipsoids in  $\mathbb{C}^n$  and related results, *Indiana Jour. Math.*, 1992.
  66. (with Brian Blank, Fan Dashan, David Klein, Daowei Ma, and Myung Yull Pang), The Kobayashi metric on a complex ellipsoid in  $\mathbb{C}^2$ , *Experimental Math.* 1(1992), 47-55.
  67. (with Der Chen Chang and E. M. Stein),  $H^p$  theory on a smooth domain in  $\mathbb{R}^N$  and applications to partial differential equations, *Jour. Funct. Anal.* 114(1993), 286-347.
  68. (with X. Huang), A unique continuation problem for holomorphic mappings, *Comm. P.D.E.* 18(1993), 241-263.
  69. (with Song-Ying Li) A Note on Hardy Spaces and Functions of Bounded Mean Oscillation on Domains in  $\mathbb{C}^n$ , *Michigan Jour. Math.* 41 (1994), 51-72.
  70. Survey of some recent ideas concerning automorphism groups of domains, *Proceedings of a Conference in Honor of Pierre Dolbeault, Géométrie complexe* (Paris, 1992), 79-90, *Actualités Sci. Indust.* 1438, Hermann, Paris, 1996.
  71. (with Song-Ying Li), Some remarks on the Corona problem on strongly pseudoconvex domains in  $\mathbb{C}^n$ , *Illinois Journal of Math.* 39(1995), 323-349.

72. (with Daowei Ma and Chen Zhenhua), Optimal  $L^p$  estimates for the  $\bar{\partial}$ -equation complex on ellipsoids, *Manuscripta Math.*, 1993.
73. (with Dan Burns), Rigidity of holomorphic mappings and a new Schwarz lemma at the boundary, *Jour. of the A.M.S.* 7(1994), 661-676.
74. Fundamentals of harmonic analysis on domains in complex space, *Multivariable Operator Theory*, Contemp. Math., v. 185, American Mathematical Society, 1995, 195–218. (with Song-Ying Li), Explicit solutions for the corona problem with Lipschitz data in the polydisc, *Pacific Jour. Math.* 174(1996), 443-458.
76. (with Xiaojun Huang), On a problem of Moser, *Duke J. Math., Duke Jour. Math.* 78(1995), 213-228.
77. (with X. Huang, D. Ma, and Y. Pan), A Hopf lemma for holomorphic functions and applications, *Complex Variables* 26(1995), 273-276.
78. (with Song-Ying Li), On decomposition theorems for Hardy spaces on domains in  $\mathbb{C}^n$  and applications, *Jour. Four. Anal. and Applics.* 2(1995), 65-107.
79. (with Song-Ying Li), Duality theorems for Hardy and Bergman spaces on convex domains of finite type in  $\mathbb{C}^n$ , *Ann. Inst. Fourier Grenoble* 45(1995), 1305-1327.
80. (with Jiye Yu), On the Bergman invariant and curvatures of the Bergman metric, *Illinois Jour. Math.* 40(1996), 226-244.
81. (with Song-Ying Li and R. Rochberg), The effect of boundary geometry on Hankel operators belonging to the trace ideals of Bergman spaces, *Integral Eq. and Op. Thy.* 28(1997), 196-213.
82. (with Song-Ying Li), Boundedness and compactness of integral operators on spaces of homogeneous type and applications, I, *Jour. Math. Anal. and Applic.*, 258(2001), 629–641.
83. (with Song-Ying Li), Boundedness and compactness of integral operators on spaces of homogeneous type and applications, II, *Jour. Math. Anal. and Applic.*, 258(2001), 642–657.
84. (with Song-Ying Li), Area integral characterizations of functions in Hardy spaces on domains in  $\mathbb{C}^n$ , *Complex Variables* 32(1997), 373-399.
85. (with Song-Ying Li), On the existence of smooth plurisubharmonic solutions for certain degenerate Monge-Ampère equations, *Complex Variables Theory Appl.* 41(2000), 207–219.

86. (with Luigi Fontana and Marco Peloso), Hodge theory in the Sobolev topology for the de Rham complex, *Memoirs of the AMS*, 131(1998), viii + 100.
87. Geometric Foundations for Analysis on Complex Domains, Proceedings of the 1994 Conference in Cetraro (D. Struppa, ed.), 1995.
88. (with Song-Ying Li and Richard Rochberg), Analysis of Some Function Spaces Associated to Hankel Operators *Ill. J. Math.* 41(1997), 398-411.
89. (with Song-Ying Li and Richard Rochberg), The effect of boundary regularity on the singular numbers of Friedrichs operators on Bergman spaces, *Michigan Math. Jour.* 43(1996), 337-348.
90. (with Song-Ying Li), Factorization of functions in subspaces of  $L^1$  and applications to the corona problem, *Indiana Jour.* 45(1996), 83-102.
91. (with M. M. Peloso and L. Fontana), The  $\bar{\partial}$ -Neumann problem in the Sobolev topology, *Indiana Journal of Math.* 48(1999), 275–293.
92. (with S. Fu and A. Isaev), Finite type conditions on Reinhardt domains, *Complex Variables Theory Appl.* 31(1996), 609-617.
93. (with S. Fu and A. Isaev), Reinhardt domains with non-compact automorphism groups, *Math. Research Letters* 3(1996), 109-122.
94. (with S. Fu and A. Isaev), Examples of domains with non-compact automorphism groups, *Math. Research Letters* 3(1996), 609-617.
95. (with A. Isaev), On the boundary orbit accumulation set for a domain with non-compact automorphism group, *Mich. Math. Jour.* 43(1996), 611-617.
96. (with A. Isaev), Finitely smooth Reinhardt domains with non-compact automorphism group, *Illinois Math. Jour.* 41(1997), 412-420.
97. (with A. Isaev), Hyperbolic Reinhardt domains in  $\mathbb{C}^2$  with non-compact automorphism group, *Pacific Jour. Math.* 184(1998), 149–160.
98. (with Luigi Fontana and Marco Peloso), Hodge theory in the Sobolev topology, *Electronic Research Announcements of the American Mathematical Society* 1(1995), 103-107.
99. (with A. Isaev), Domains with non-compact automorphism group: A Survey, *Advances in Math.* 146(1999), 1–38.
100. (with K. T. Kim), A crash course in the function theory of several complex variables, Proceedings of the Conference on Several Complex Variables held in Pohang, Korea, 1997, *Contemporary Math.* 222, American Mathematical Society, 1999.

101. (with J. Gifford and A. V. Isaev), On the Dimensions of the Automorphism Groups of Hyperbolic Reinhardt Domains, *Illinois Jour. Math.* 44(2000), 602–618.
102. (with M. Peloso), Sobolev Spaces and Projections of Holomorphic Function and Mappings, *Proceedings of a Conference on Function Spaces*, S. Illinois University at Edwardsville, *Contemporary Math.* 232, American Mathematical Society, Providence, 1999, 219–231.
103. (with Luigi Fontana and Marco M. Peloso), Estimates for the  $\bar{\partial}$ -Neumann problem in the Sobolev topology on  $Z(q)$  domains, *Houston Math. Journal* 27(2001), 123–175.
104. (with W. Cheung, S. Fu, and B. Wong), A smoothly bounded domain in a complex surface with a compact quotient, *Math. Scand.* 91(2002), 82–90.
105. (with A. V. Isaev), Characterizations of Reinhardt domains by their automorphism groups, Proceedings of an International Conference on Complex Variables held in Seoul, Korea, *Journal of the Korean Math. Society* 37(2000), 297–308.
106. (with K. T. Kim), Complex scaling and domains with non-compact automorphism group, *Illinois Journal of Math.* 45(2001), 1273–1299.
107. Fatou theorems old and new: an overview of the boundary behavior of holomorphic functions, Proceedings of an International Conference on Complex Variables held in Seoul, Korea, *Journal of the Korean Math. Society* 37(2000), 139–175.
108. (with A. V. Isaev), On the automorphism groups of hyperbolic domains, *Jour. für die Reine und angewandte Math.* 534(2001), 187–194.
109. (with A. V. Isaev), Invariant distances and metrics in complex analysis, *Notices of the American Math. Society* 47(2000), 546–553.
110. (with K. T. Kim), Characterization of the Hilbert ball by its automorphism group, *Trans. AMS* 354(2002), 2797–2818.
111. (with B. Fridman, K. T. Kim, and D. Ma), On fixed points and determining sets for automorphisms, *Michigan Journal of Mathematics* 50(2002), 507–515.
112. (with K. T. Kim) Some New Results on Domains in Complex Space with Non-Compact Automorphism Group, *J. Math. Anal. Appl.* 281(2003), 417–424.
113. A Matter of gravity, *Amer. Math. Monthly* 110(2003), 465–481.

114. Determination of a domain in complex space by its automorphism group, *Complex Variables Theory Appl.* 47(2002), 215–223.
115. (with H. Gaussier and K. T. Kim) A note on the Wong-Rosay theorem in complex manifolds, *Complex Variables Theory Appl.* 47(2002), 761–768.
116. (with K.-T. Kim) Normal families of holomorphic functions and mappings on a Banach space, *Expositiones Mathematicae* 21(2003), 193–218.
117. (with K. T. Kim and A. Spiro) Analytic polyhedra with noncompact automorphism group, *Journal für die Reine und Angewandte Mathematik*, 2004, to appear.
118. (with K. T. Kim) Determining sets and fixed points for holomorphic endomorphisms, *Functions spaces* (Edwardsville, IL, 2002), 239–246, *Contemp. Math.*, 328, Amer. Math. Soc., Providence, RI, 2003.
119. Correction to: “Determination of a domain in complex space by its automorphism group” [*Complex Var. Theory Appl.* 47(2002), no. 3, 215–223; MR 2002m:32036]. *Complex Var. Theory Appl.* 48(2003), no. 7, 625–626.
120. (with Jefferey D. McNeal) Creating more convergent series, *Amer. Math. Monthly* 111(2004), 32–38.
121. (with K. T. Kim) The Bergman metric invariants and their boundary behavior, *Explorations in Complex and Riemannian Geometry*, J. Bland, K.-T. Kim, S. G. Krantz eds., 139–151. *Contemp. Math.* 332, Amer. Math. Soc., Providence, R.I., 2003.
122. Calculation and estimation of the Poisson kernel, *J. Math. Anal. Appl.* 302(2005)143–148.
123. (with J. Cima, I. Graham, and K.-T. Kim) The Carathéodory/Cartan/Kaup/Wu theorem in a separable Hilbert space, *Nagoya Math. J.* 185 (2007), 17–30.
124. (with M. Peloso) The Bergman kernel and projection on non-smooth worm domains, *Houston J. Math.* 34 (2008), 873–950.
125. (with B. Fridman, K.-T. Kim, and D. Ma) On determining sets for holomorphic automorphisms, *Rocky Mountain Jour. of Math.*, to appear.
126. (with John McCarthy and Harold R. Parks) Geometric characterizations of centroids of simplices, *Journal of Mathematical Analysis and Applications* 316(2006), 87–109.
127. Two results on uniqueness of conformal mappings, *Complex Variables*, to appear.

128. Zero knowledge proofs, *Expeditions in Mathematics*, Spectrum Series, Mathematical Association of America, Washington, D.C., 2011.
129. (with Kang-Tae Kim) The automorphism groups of domains, *American Mathematical Monthly* 112(2005), 585–601.
130. The boundary behavior of holomorphic functions: global and local results, *Asian Journal of Mathematics* 11(2007), 179–199.
131. (with Colin Adams) The cohomology of proofs, *Mathematical Intelligencer*, 2006.
132. (with Kang-Tae Kim) Complex scaling and geometric analysis of several variables, *Bull. Korean Math. Soc.* 45(2008), 523–561..
133. (with Alex Basson and Blake Thornton) A new kind of instructional mathematics computer lab, *Primus*, 2007.
134. (with P. A. Jacobsen, D. Becker, D. Govier, and A. Kane) Ellipsoid analysis of calvarial shape, to appear.
135. The Lindelöf Principle in Several Complex Variables, *Journal of Math. Anal. and Applications* 326(2007), 1190–1198.
136. An anecdotal history of the Washington University mathematics department, in *150 Years of Mathematics at Washington University in St. Louis*, American Mathematical Society, Providence, RI, 2006.
137. On functions in  $p$ -adic  $BMO$  and the distribution of prime integers, preprint, *Journal of Math. Anal. and Applications* 326(2007), 1437–1444.
138. A new proof and a generalization of Ramadanov’s theorem, *Complex Variables and Elliptic Eq.* 51(2006), 1125–1128.
139. (with Jay Jorgenson), Serge Lang (1927–2005), *Notices of the AMS* 53(2006), 536–553.
140. (with Jay Jorgenson), The mathematical contributions of Serge Lang, *Notices of the AMS* 54(2007), 476–497.
141. (with Harold R. Parks), The Lagrange inversion theorem in the smooth case, *Jour. Math. Anal. Applications* 340(2008), 1263–1270.
142. Complex analysis as catalyst, *American Mathematical Monthly*, to appear, 2008.
143. The history and concept of mathematical proof, *EOLSS Encyclopedia*, to appear.
144. The Carathéodory and Kobayashi metrics and applications in complex analysis, *American Mathematical Monthly*, *Amer. Math. Monthly* 115(2008), 304–

329.

145. A new look at convexity and pseudoconvexity, preprint.
146. Higher dimensional conundra, *Journal of OnLine Mathematics and its Applications* 7(2007), 1-17.
147. (with Marco Peloso), New results on the Bergman kernel of the worm domain in complex space, *Electronic Research Announcements* 14(2008), 35–41.
148. (with Marco Peloso), Analysis and geometry on worm domains, *J. Geom. Anal.* 18(2008), 478–510.
149. How to write your first paper, *Notices of the AMS* 54(2007), 1507–1511.
150. Topologies on the space of holomorphic Functions, preprint.
151. (with Jisoo Byun), Automorphism groups of domains that depend on fewer than the maximal number of parameters, *Complex Variables and Elliptic Equations*, 55(2010), 395–405.
152. (S. G. Krantz and R. P. Agarwal, eds.), Special issue dedicated to William Ames, *Journal of Mathematical Analysis and Applications* 333(2007), 1–556.
153. The Hartogs extension phenomenon redux, *Complex Variables and Elliptic Eq.* 53(2008), 343–353.
154. Pseudoconvexity, analytic discs, and invariant metrics, *The Bulletin of the Allahabad Mathematical Society* 23(2008), 245–262.
155. On limits of sequences of holomorphic functions, *Rocky Mountain Journal of Math.*, to appear.
156. Boundary decomposition of the Bergman kernel, *Rocky Mountain Journal of Math.*, to appear.
157. (with Kang-Tae Kim), A Kobayashi metric version of the theorem of Bun Wong and Rosay, *Complex Variables and Elliptic Equations* 54(2009), 355–369.
158. foreword to the book *An Introduction to Classical Complex Analysis*, 2<sup>nd</sup> ed., by Robert Burckel.
159. A tale of three kernels, *Complex Variables and Elliptic Equations* 53(2008), 1059–1082.
160. A new invariant metric and applications, *Complex Variables and Elliptic Equations* 54(2009), 153–164.
161. On a construction of L. Hua for positive reproducing kernels, *Michigan Journal of Mathematics* 59(2010), 211–230.
162. An ontology of directional regularity implying joint regularity, *Real Analysis Exchange*, to appear.
163. (with Stevo Stevic), On the iterated logarithmic Bloch space on the unit

- ball, *Nonlinear Anal.* 71(2009), 1772–1795.
164. Through a glass darkly, in *The Psychology of a Mathematician*, Casazza, Krantz eds., MAA, Washington, D.C. to appear.
165. The Kobayashi metric, extremal discs, and biholomorphic mappings, *Complex Variables and Elliptic Equations*, to appear.
166. Normed domains of holomorphy, *International Journal of Mathematics and Mathematical Sciences* 2010(2010), 18 pp.
167. Convexity in real analysis, preprint.
168. The corona problem with two pieces of data, *Proc. AMS* 138(2010), 3651–3655.
169. The Schwarz lemma at the boundary, *Complex Variables and Elliptic Equations*, to appear.
170. An overview of harmonic analysis, Wiley Interdisciplinary Reviews, Computational Statistics, WIRE, to appear.
171. (with Persi Diaconis et al) Memories of Martin Gardner, *Notices of the AMS*, February, 2011, to appear.
172. Topological/geometric properties of orbit accumulation set, *Complex Variables and Elliptic Equations*, to appear.
173. Geometric properties of boundary orbit accumulation points, in *Memories of Leon Ehrenpreis*, Daniele Struppa, ed., Springer, 2011.
174. (with Halsey Royden and Pitmann Wong), The Carathéodory and Kobayashi metrics by way of dual extremal problems, submitted.
175. (with R. E. Greene, K.-T. Kim, and A.-R. Seo), Semi-continuity of Automorphism Groups of Strongly Pseudoconvex Domains: the Low Differentiability Case, preprint.
176. On the maximal ideal space of  $H^\infty(B)$ , preprint.

## Other Writings

1. Review of *Integral Representations of Functions and Imbedding Theorems* Vols. I and II, by Oleg V. Besov, Valentin P. Il'in, and Sergei M. Nikol'skii, (Vol. I: vii + 311), (Vol. II; viii + 345), *Bull. Am. Math. Soc.* (new series) (1980), 216-222.
2. Review of *Function Theory in the Unit Ball of  $\mathbb{C}^n$* , by Walter Rudin, Grundlehren der mathematischen Wissenschaften 24 Springer-Verlag, Berlin and New York, 1980, *Bull. Am. Math. Soc.* (new series) 5(1981), 331-339.
3. Review of *The Science of Fractal Images* by Peitgen and Saupe and *The Art of Fractal Geometry* by Peitgen and Richter, *Mathematical Intelligencer* 11 (1989), 12-16.
4. The Immortality of Proof, *Notices of the American Mathematical Society* 41(1994), 10-13.
5. From the Editor, *Notices of the American Mathematical Society*, 42(1995), 218.
6. Math for Sale (editorial), *Notices of the American Mathematical Society*, 42(1995), 1116.
7. The Way Things Ought to Be (editorial), *Notices of the American Mathematical Society*, 43(1996), 532.
8. See, I Told You So (editorial), *Notices of the American Mathematical Society*, 44(1997), 4.
9. Mathematics Journals Should be Electronic and Free (editorial), *Notices of the American Mathematical Society*, 44(1997), 892.
10. Review of *Introduction to Holomorphic Functions of Several Variables*, by Robert C. Gunning, *Bull. Am. Math. Soc.* (new series) 25(1991), 205-215.
11. Review of *Nonlinear Dynamics and Chaos, with Applications in Physics, Biology, Chemistry, and Engineering* by S. Strogatz, *UMAP Journal*, to appear, 1999.
12. Review of *Complex Variables and Applications*, 6<sup>th</sup> Ed., by J. W. Brown and R. V. Churchill and *Complex Variables with Applications*, 2<sup>nd</sup> Ed., by D. Wunsch, *UMAP Journal*, to appear.
13. Review of *Indiscrete Thoughts* by Gian-Carlo Rota, *Notices of the American*

- Math. Society* 44(1997), 815-818.
14. Review of *Introduction to Calculus and Classical Analysis* by Omar Hijab and *Introduction to Mathematical Structures and Proofs* by Larry J. Gerstein, *Notices of the American Math. Society*, to appear.
  15. Review of *Applied Mathematics* by J. David Logan, *UMAP Journal*, to appear.
  16. Krantz (ed.), and a group of contributors, Lars Valerian Ahlfors, In Memorial, *Notices of the American Mathematical Society* 45(1998), 248–255.
  17. Krantz (ed.), and a group of contributors, The Mathematics of Lars Valerian Ahlfors, *Notices of the American Mathematical Society* 45(1998), 233–242.
  18. Review of *The World According to Wavelets*, 2<sup>nd</sup> ed., by Barbara Burke Hubbard, *UMAP Journal*, to appear.
  19. See No Evil, Hear No Evil, Speak No Evil, (editorial), *Notices of the American Mathematical Society* 45(1998), to appear.
  20. contributed several sections in C. Bennett and A. Crannell, eds., *Starting our Careers*, American Mathematical Society, Providence, 1999.
  21. Review of *Challenges* by Serge Lang, *Mathematical Intelligencer*, 1999.
  22. You Don't Need a Weatherman to Know which Way the Wind Blows, *American Mathematical Monthly*, to appear.
  23. Conformal Mappings, *American Scientist*, September, 1999.
  24. Ask and You Shall Receive, *Notices of the American Mathematical Society* 46(1999), 629.
  25. Imminent Danger—From a Distance, *Notices of the American Mathematical Society* 47(2000), 533.
  26. Shareware or Vaporware, *Notices of the American Mathematical Society* 47(2000).
  27. Review of *The Man Who Loved Only Numbers* and *My Brain is Open*, *The College Mathematics Journal*, 2001.
  28. Review of *Zero: The Biography of a Dangerous Idea*, *SIAM News* 33(2000), 10–12.
  29. Review of *Challenges*, *The Mathematical Intelligencer*, 2001.
  30. Review of *Math Education of Teachers*, *Notices of the AMS*, 2003
  31. Review of *The Universe in a Nutshell*, *Notices of the AMS*, 2002.

32. Review of *Math Lectures for Undergraduates*, *The Mathematical Intelligencer*, 2002.

### Books<sup>1</sup>

1. (with Bonic, Cranford, et al), *Freshman Calculus*, D. C. Heath, Lexington, 1971.
2. (with Bonic and Cranford), *Exercises and Sample Exams for Freshman Calculus*, D. C. Heath, Lexington, 1971.
3. *Function Theory of Several Complex Variables*, John Wiley and Sons, New York, 1982.
4. S. Krantz, ed., *Complex Analysis Seminar*, Springer Verlag Lecture Notes, vol. 1268, 1987.
5. *Complex Analysis: The Geometric Viewpoint*, Carus Monograph no. 23, Mathematical Association of America, Providence, 1990.
6. *Real Analysis and Foundations*, CRC Press, Boca Raton, 1991.
7. E. Bedford, J. D'Angelo, R. E. Greene, and S. G. Krantz eds., *Several Complex Variables and Complex Geometry*, 3 volumes, Proceedings of Symposia in Pure Mathematics, American Math. Society, Providence, 1991.
8. *Function Theory of Several Complex Variables*, 2<sup>nd</sup> ed., Wadsworth and Brooks/Cole, Belmont, CA, 1992.
9. *Partial Differential Equations and Complex Analysis*, CRC Press, Boca Raton, 1992.
10. (with R. E. Greene) *Function Theory of One Complex Variable*, John Wiley and Sons, 1997.
11. *Function Theory of Several Complex Variables*, 2<sup>nd</sup> ed., American Mathematical Society, Providence, 2001.
12. (with H. R. Parks), *A Primer of Real Analytic Functions*, Birkhauser, Basel, 1992.
13. *Geometric Analysis and Function Spaces*, CBMS and the American Mathematical Society, Providence, 1993.

---

<sup>1</sup>Books **3**, **13**, **20** have been translated into several foreign languages.

14. *How to Teach Mathematics*, American Mathematical Society, Providence, 1993.
15. (with Brian Blank), *Calculus*, Key College Press, Emeryville, CA, 2006.
16. (with Stanley Sawyer) *A T<sub>E</sub>X Primer for Scientists*, CRC Press, 1994.
17. *The Elements of Advanced Mathematics*, CRC Press, 1995.
18. (with K. Rosen and D. Zwillinger, eds.) *The Standard Book of Tables and Formulas*, CRC Press, Boca Raton, 1995.
19. *Dictionary of Algebra, Arithmetic, and Trigonometry*, CRC Press, Boca Raton, 2001.
20. (with H. R. Parks), *The Geometry of Domains in Space*, Birkhäuser, Boston, 1996. in progress.
21. *Techniques of Problem Solving*, American Mathematical Society, 1996.
22. *A Primer of Mathematical Writing*, American Math. Society, 1996.
23. (with E. Gavosto, W. McCallum), *Contemporary Issues in Mathematics Education*, Cambridge University Press, 1999.
24. *A Panorama of Harmonic Analysis*, A Carus Monograph, Mathematical Association of America, Washington, D.C., 1999.
25. *How to Teach Mathematics*, 2<sup>nd</sup> ed., American Mathematical Society, Providence, 1999.
26. (with K. T. Kim, ed.), *Complex Geometric Analysis in Pohang, Contemporary Math. 222*, American Math. Society, Providence, 1999.
27. *A Handbook of Complex Variables*, Birkhäuser, Boston, 1999.
28. *Handbook of Typography for the Mathematical Scientist*, CRC Press, Boca Raton, 2001.
29. (with H. R. Parks) *The Implicit Function Theorem*, Birkhäuser, Boston, 2002.
30. (with R. E. Greene and K. T. Kim), *The Geometry of Complex Domains*, Birkhäuser, Boston, 2011.
31. *Handbook of Logic and Proof Techniques for Computer Science*, Birkhäuser, Boston, 2002.
32. (with H. R. Parks) *A Primer of Real Analytic Functions*, 2<sup>nd</sup> ed., Birkhäuser Publishing, Boston, 2002.
33. *Complex Analysis: The Geometric Viewpoint*, 2<sup>nd</sup> ed., Mathematical Association of America, Washington, D.C., 2004.

34. *Function Theory of One Complex Variable*, 2<sup>nd</sup> ed., The American Mathematical Society, Providence, RI, 2002.
35. *The Elements of Advanced Mathematics*, 2<sup>nd</sup> ed., CRC Press, Boca Raton, FL, 2002.
36. *Mathematical Apocrypha*, Mathematical Association of America, Washington, D.C., 2002.
37. *Calculus Demystified*, McGraw-Hill, New York, 2002.
38. (with H. R. Parks) *Geometric Integration Theory*, Birkhäuser Publishing, Boston, MA, 2008.
39. (with F. DiBiase) *The Boundary Behavior of Holomorphic Functions*, Birkhäuser, Boston, to appear.
40. (with K. Rosen and D. Zwillinger, eds.) *The Standard Book of Tables and Formulas*, 2<sup>nd</sup> ed., CRC Press, Boca Raton, 2003.
41. *A Handbook of Real Variables, with Applications to Differential Equations and Fourier Analysis*, Birkhäuser, Boston, 2003.
42. (with G. F. Simmons) *Differential Equations: Theory, Technique, and Practice*, McGraw-Hill, New York, 2006.
43. *A Mathematician's Survival Guide*, American Mathematical Society, Providence, 2004.
44. (with John Bland and K.-T. Kim) *Explorations in Geometric Analysis: A Volume Dedicated to Robert E. Greene*, American Mathematical Society, Providence, R.I., 2003.
45. *Mathematical Apocrypha Redux*, Mathematical Association of America, Washington, D.C., 2006.
46. (with Brian Blank) *Instructor's Resource Manual for Calcululus*, Key Curriculum Press, Emeryville, CA, 2006.
47. *Real Analysis and Foundations*, 2<sup>nd</sup> ed., CRC Press, Boca Raton, 2005.
48. *Differential Equations Demystified*, McGraw-Hill, New York, 2005.
49. *An Episodic History of Mathematics: Mathematical Culture through Problem Solving*, Mathematical Association of America, 2010.
50. *Mathematical Publishing, A Guidebook*, American Mathematical Society, Providence, RI, 2005.
51. *Cornerstones of Geometric Function Theory: Explorations in Complex Analysis*, Birkhäuser Publishing, Boston, 2006.

52. (with Gary R. Jensen) *150 Years of Mathematics at Washington University in St. Louis*, American Mathematical Society, Providence, RI, 2006.
53. (with R. E. Greene) *Function Theory of One Complex Variable*, 3<sup>rd</sup> ed., American Mathematical Society, Providence, RI, 2006.
54. *The Proof is in the Pudding: A Look at the Changing Nature of Mathematical Proof*, Springer, 2011.
55. (contributing author) *Starting Our Careers*, American Mathematical Society, Providence, RI, 1999.
56. *A Guide to Complex Variables*, Mathematical Association of America, Washington, D.C., 2008.
57. *The Survival of a Mathematician: From Tenure to Emeritus*, American Mathematical Society, 2009.
58. *Discrete Mathematics Demystified*, McGraw-Hill, 2009.
59. (with P. Casazza) *The Psychology of the Mathematician*, Mathematical Association of America, to appear.
60. *A Guide to Topology*, Mathematical Association of America, Washington, D.C., 2009.
61. *A Guide to Real Variables*, Mathematical Association of America, Washington, D.C., 2009.
62. *Elements of Topology: Theory and Practice*, Taylor & Francis, Boca Raton, FL, 2009.
63. *Explorations in Harmonic Analysis, with Applications in Complex Function Theory and the Heisenberg Group*, Birkhäuser Publishing, Boston, 2009.
64. (with H. R. Parks) *The Mathematical Experience*, Birkhäuser Publishing, Boston, MA, to appear.
64. (with B. Blank) *Calculus*, 2<sup>nd</sup> ed., John Wiley and Sons, New York, 2011.
65. *Calculus Demystified*, 2<sup>nd</sup> ed., McGraw-Hill, New York, 2011.
66. *The Integral: A Crux for Analysis*, Morgan & Claypool, 2011.
67. *A Mathematician Comes of Age*, Mathematical Association of America, to appear.
68. *The Elements of Advanced Mathematics*, 3rd edition, Taylor & Francis, to appear.
69. *Geometric Analysis of the Bergman Kernel and Metric*, Birkhäuser Publishing, to appear.

## GRADUATE STUDENTS DIRECTED

Jeffrey Hanock, M.A., 1978  
Frank Kozakowski, M.A., 1978  
Gary Massion, M.A., 1978  
Curtis La Mack, M.S., 1983  
Thomas Szekely, M.S., 1983  
Kyle Hunter, M.S., 1984  
Cynthia Wilson, M.S., 1985  
Gerardo Aladro, Ph.D., 1985  
Paul MacMillan, M.S., 1986  
Amy Rush, M.S., 1986  
Daowei Ma, Ph.D., 1990  
Chen Zhenhua, Ph.D., 1990  
Estela Gavosto, Ph.D., 1990  
Marco Peloso, Ph.D., 1990  
Jiye Yu, Ph.D., 1993  
Xiaojun Huang, Ph.D., 1994  
Siqi Fu, Ph.D., 1994  
Fausto di Biase, Ph.D., 1995  
Tristan Nguyen, Ph.D., 1997.  
Bao Luong, Ph.D., 1997.  
Judy Kenney, Ph.D., 1997.  
Dylan Retsek, Ph.D., 2001.  
Lynn Apfel, Ph.D., 2003.  
Seth Howell, Ph.D., 2004.  
Lina Lee, Ph.D., 2007.  
Bennett Standeven, Ph.D., 2009.  
Baili Min, Ph.D., 2011.  
Liwei Chen, expected.  
Bingyuan Liu, expected.

## INVITED LECTURES GIVEN

- 1975 Claremont Graduate School  
American Mathematical Society Summer Institute on  
Several Complex Variables  
University of California at Santa Cruz
- 1976 University of California at Berkeley  
California Institute of Technology
- 1977 Universite de Paris-Sud Several Complex Variables Seminar  
Universiteë de Paris-Sud Harmonic Analysis Seminar
- 1978 American Mathematical Society Summer Institute on  
Harmonic Analysis
- 1979 Princeton Conference on Several Complex Variables  
Claremont Graduate School  
Principal Speaker, regional MAA Conference, U. C. Riverside  
California State Polytechnic University, San Luis Obispo  
South California Functional Analysis Seminar
- 1980 Claremont Colleges  
University of California at Berkeley  
Michigan State University  
University of South Carolina  
University of North Carolina  
University of Tennessee  
University of New Mexico  
University of Chicago  
DePaul University  
University of Kentucky  
Washington University  
Princeton University  
Institute for Advanced Study  
University of Arkansas

- University of California at Davis  
 Matematisches Forschungsinstitut Oberwolfach
- 1981 University of North Carolina  
 American Mathematical Society meeting in Pittsburgh  
 Princeton University
- 1982 American Mathematical Society meeting in Bryn Mawr  
 American Mathematical Society meeting in Madison  
 University of Toronto
- 1983 Rutgers University  
 King's College  
 Matematisches Forschungsinstitut Oberwolfach
- 1984 University of Uppsala  
 Mittag-Leffler Institute  
 Swedish Mathematics Society  
 University of Oslo  
 Bryn Mawr College  
 Peking University  
 Stanford University  
 University of California at Berkeley  
 Johns Hopkins University  
 University of Maryland  
 Washington University
- 1985 University of Pittsburgh  
 Tulane University  
 Lehigh University  
 Princeton University  
 University of North Carolina  
 University of Georgia  
 Lehigh University  
 University of Chicago

- 1986 Florida International University  
University of South Carolina  
University of Maryland (principal speaker, complex analysis year)  
University of Umeå  
University of Trondheim  
Swedish Mathematical Society  
University Autonoma de Madrid  
Purdue University
- 1987 University of California at Berkeley  
Stanford University  
University of California at Santa Cruz  
University of Illinois at Urbana  
Princeton University  
Mathematisches Forschungsinstitut Oberwolfach  
Texas A& M University  
Rice University  
Indiana University  
International Conference on Mathematical Modeling  
Stanford University
- 1988 University of North Carolina  
University of Arkansas  
University of Kansas  
University of Massachusetts at Amherst  
Mittag-Leffler Institute  
Swedish Mathematical Society  
University of Umeå  
Universite Paul Sabatier  
Universite de Bordeaux
- 1989 University of Wisconsin, Eau Claire  
Purdue University  
Univ. of Notre Dame  
Int'l Complex Analysis Conference, Cetraro, Italy

- Kansas State University  
Wichita State University
- 1990 Temple University  
University of Toronto  
Oregon State University  
University of Washington  
Indiana University  
Southern Illinois University  
Mathematisches Forschungsinstitut Oberwolfach  
National Academy of Sciences “Frontiers of Science” Forum
- 1991 University of Maryland  
Brown University  
Yale University  
University of Michigan  
Cornell University
- 1992 University of North Florida  
University of California at San Diego  
St. Louis University  
George Mason University (10 lectures)  
Universite de Paris VI  
University of Michigan  
Oklahoma State University  
Indiana University  
University of Massachusetts
- 1993 Southeastern Functional Analysis Conference  
Politecnico Torino  
University of Florence  
University of Rome  
Summer Research Institute on Operator Theory, Seattle  
University of Arkansas  
Oregon State University  
Wichita State University

- 1994    Clemson University  
           University of Cincinnati  
           Northwestern University  
           Univ. of Illinois, Chicago  
           Geometry Conference, Cetraro, Italy  
           Univ. of Missouri, Rolla  
           Univ. of Chicago  
           Univ. of Maryland
- 1995    AMS Special Session, San Francisco  
           University of Edinburgh  
           Meramec College  
           Australian National University  
           MacQuarie University  
           University of Adelaide  
           University of Sydney  
           AMS Special Session, Burlington  
           University of Washington, Seattle  
           University of California at Berkeley
- 1996    Mathematical Sciences Research Institute  
           University of California at Berkeley (colloquium)  
           University of California at Berkeley (seminar)  
           Oregon State University  
           Virginia Polytechnic Institute (“Students’ Choice Lecturer”)  
           Rose-Hulman Institute of Technology  
           University of Tennessee (Distinguished Speaker Series)
- 1997    Special Session on Complex Analysis, AMS Nat’l. Meeting in Seattle  
           Special Session on Geometry, AMS Nat’l. Meeting in Seattle  
           University of Central Arkansas  
           Hendrix College  
           Ohio State University  
           University of Missouri, Columbia  
           Pohang Institute of Technology, Korea

- Conference in Memory of Lars V. Ahlfors, Stanford  
 Boston College  
 Texas A&M  
 Stanford University
- 1998 University of S. Florida  
 Indiana University  
 Butler University  
 Principal Speaker, Conference on Function Spaces  
 SIUE Edwardsville  
 University of North Carolina  
 Principal speaker, Hayama (JAPAN) Conference on Complex Geometry  
 Principal speaker and organizer, Korean Several  
 Complex Variables Conference, Seoul
- 1999 University of Maryland  
 UCLA  
 University of Wyoming  
 Special Session, AMS, Salt Lake City
- 2000 Special Session, AMS, Washington, D.C.  
 Department of Mathematics, Michigan State University  
 Computational Biology Group, Michigan State University  
 Carleton College  
 University of Sardinia, Italy  
 University of Florence, Italy  
 University of Rome II, Italy  
 Conference at Lake Como, Italy
- 2001 Distinguished Lecturer, Allegheny College  
 University of Arkansas  
 Seoul National University
- 2002 MEGSL Conference, St. Louis  
 Court Lecturer of the MAA  
 Discrete Geometry Conference, Tallahassee  
 Functional Analysis Conference, Edwardsville  
 Distinguished Lecturer, MAA Meeting, Claremont
- 2003 Penn State University  
 Bowdoin College

- 2004 Di Giorgi Institute, Pisa, Italy  
 American Cleft Palate-Craniofacial Association, Chicago  
 lecture delivered by collaborator Alex Kane  
 Oregon State University (Arvid Longseth Lecturer)  
 Work in Teams, Banff International Research Station  
 University of Missouri at Rolla  
 Stanford University  
 University of Washington  
 University of Santa Clara  
 University of California, Irvine  
 MSRI/Evans lecture series
- 2005 Principal Lecturer, Annual AMS/MAA meeting in Atlanta  
 American Cleft Palate-Craniofacial Association, Myrtle Beach  
 lecture delivered by collaborator Petra Jacobsen  
 Principal Lecturer, MAA Regional Meeting, Moraga  
 San Jose State University Math Adventures Lecture  
 Principal Lecturer, SEAM Meeting, William & Mary College  
 Colloquium, Univ. of Santa Clara, 2004  
 Sarason seminar, U. C. Berkeley, 2004  
 Evans/Christ seminar, U. C. Berkeley, 2005  
 Colloquium, U. C. Berkeley, 2005  
 Sarason seminar, U. C. Berkeley, 2005
- 2006 AAAS Symposium  
 Colloquium, Fresno State University
- 2007 Colloquium, Tulane University  
 Colloquium, UC Santa Cruz  
 Colloquium, Stanford University  
 Organizer, Conference at Banach Center
- 2008 Colloquium, San Francisco State University  
 Colloquium, Kansas State University  
 Stanford University Logic Seminar  
 Colloquium, Purdue University
- 2009 Colloquium, Purdue University  
 Seminar, Purdue University  
 Colloquium, University of Pittsburgh  
 Seminar, University of Michigan

“What Is?” seminar, University of Michigan  
Colloquium, University of Michigan  
Schrödinger Institute of Theoretical Physics  
2010 University of Notre Dame  
Miami University in Oxford, Ohio  
St. Francis College

2011 Harris Stowe College  
University of Wisconsin in Eau Claire  
Chapman University

## GRANTS AND OUTSIDE SUPPORT

- 1975 - present: National Science Foundation Summer Research Grant
- 1983: Research Initiation Grant at Pennsylvania State University
- 1987: Mathematical Research Equipment Grant from the National Science Foundation
- 1988: Biological Research Grant from Washington University
- 1988: Graduate Education Grant in Areas of National Need from the Department of Education
- 1989: Special Projects Grant from the National Science Foundation for the 1989 American Mathematical Society Summer Research Institute
- 1989-96: Undergraduate Research Experience Grant from the National Science Foundation
- 1992-93: Fund for the Improvement of Post-Secondary Education Grant for developing the book *How to Teach Mathematics*
- 1993-4: Kemper Foundation Grant for Developing a Course on Problem Solving at Washington University and an accompanying text
- 1996-8: Group Infrastructure Grant, National Science Foundation
- 1996-1998: Group Research Grant in Analysis
- 1999: SEGR Grant, National Science Foundation
- 1999–2001: NSF Summer Research Grant
- 2000: SEGR Grant, National Science Foundation
- 2000: Grant to run Holomorphic Mappings Conference, National Science Foundation
- 2000: National Need Grant, Department of Education
- 2001–2003: NSF Summer Research Grant
- 2002: National Need Grant, Department of Education
- 2005: Research Grant from Dean of Graduate School at Washington University
- 2007: Grant to run conference at Banach Center

## OTHER ACTIVITIES

Reviewer for *Mathematical Reviews*

Reviewer for *Zentralblatt für Mathematik*

Referee for the National Science Foundation

Referee for

*Annals of Mathematics,*

*Proceedings of the American Mathematical Society,*

*Duke Journal of Mathematics,*

*Pacific Journal of Mathematics,*

*Annali Scuola Norm. Sup. Pisa,*

*Indiana Journal of Mathematics,*

and other journals

Panel member, NSF Centers of Science and Technology Program, 1989

Panel member, NSF Instrumentation and Laboratory Improvement Grant Program, 1992

Panel member, NSF Calculus and First Two Years Teaching Grant Program, 1993

Panel member, NSF Curriculum Development Program, 1994

Associate Editor, the *NEW Notices* of the AMS, 1995-

Associate Editor Committee, *American Mathematical Monthly*, 1996-

Editor, *Complex Variables*, 1994-present

Member at Large of Council of the American Mathematical Society, 1993-1995

Member of the Executive Committee of the American Mathematical Society, 1995-1999

Appointed Executive Committee representative to the AMS Council, 1996-1999

Member, AMS Committee on Publications, 1995-1998.

Chairman of the AMS Committee on Publications, 1995-1996

Chairman of the AMS President's Taskforce on Electronic Journals, 1995

Chairman of the AMS Long Range Planning Committee, 1997-2000

Chief Editor of the Carus Monograph Series for the MAA, 1997-2000  
 Member of outside review committee, Univ. of Oregon  
 Editorial Consultant for Harper & Row, Wadsworth, Saunders,  
 John Wiley and Sons, Addison-Wesley, Benjamin Cummings,  
 Springer Verlag  
 Founder and Consulting Editor, CRC Press *Studies in Advanced Mathematics*  
 Book Series  
 Founder and Managing Editor, *Journal of Geometric Analysis*  
 Editor-in-Chief, *Journal of Mathematical Analysis and Applications*, 2000–  
 Software Consultant, Natoli Engineering  
 Panel Member, AMS Forum on Employment, 1995  
 Panel Member, Forum on How to Give a Lecture, AMS, 1996  
 Panel Member, Forum on Set Theory and Logic, AMS, 1996  
 Member, Board of Advisors, American Institute of Mathematics, 1997–  
 Member, Putnam Exam Problems Committee of the MAA, 1998–2000  
 Member of Research Group to Develop Computer Graphic Tools in Aesthetic  
 Rhinoplasty, 1996–  
 Helped revise the Math Reviews Subject Classification System, 1999  
 Chairman, Department of Mathematics, Washington University in St. Louis,  
 1999–2004  
 Natural Sciences Division Head, Washington University in St. Louis, 2002–  
 Member, Panel to Discuss Future of Harmonic Analysis, Edwardsville, 2002  
 Member of Research Group to Study Unicoronal Synostosis  
 Editor, Birkhäuser Advanced Texts series  
 Editor, Walter Rudin Series of Advanced Texts for McGraw-Hill Publishing  
 Member of Editorial Board, *Notices of the AMS*, 2004–  
 Book Review Editor, *Notices of the AMS*, 2004–  
 Member of Book Review Board, *Bulletin of the AMS*, 2003–  
 Deputy Director, American Institute of Mathematics, 2006–2008  
 Member of the AMS Committee on Committees, 2008–  
 Managing Editor of the Notices of the AMS, 2010-2012  
 Member of Outside Review Committee, University of South Florida, 2010

## REFERENCES

- M. Salah Baouendi, Department of Mathematics, University of California at San Diego, La Jolla, California 92093-0112
- Steven R. Bell, Department of Mathematics, Purdue University, West Lafayette, Indiana 47907-2067
- John Erik Fornæss, Department of Mathematics, University of Michigan, Ann Arbor, Michigan 48109-1109
- Robert E. Greene, Department of Mathematics, University of California at Los Angeles, Los Angeles, California 90095-1555
- Kang-Tae Kim, Department of Mathematics, Pohang University of Science and Technology, Pohang, SOUTH KOREA
- Harold R. Parks, Department of Mathematics, Oregon State University, Corvallis, Oregon 97331-4605
- Yum-Tong Siu, Department of Mathematics, Harvard University, Cambridge, Massachusetts 02138-2901