

STEPHEN DILWORTH

EDUCATION

Manchester Grammar School, 1970-77.
B.A. (First Class Honours), Trinity College, Cambridge, 1980.
M.A., Trinity College, Cambridge, 1984.
Ph.D., Trinity College, Cambridge, 1985.

EMPLOYMENT

2001-, Professor, University of South Carolina.
1992-2001, Associate Professor, University of South Carolina.
1986-1992, Assistant Professor, University of South Carolina.
1985-86, Instructor, University of Texas at Austin.

VISITING POSITIONS

2001-2002, Visiting Scholar, University of Texas at Austin.
Spring 1994, Visiting Associate Professor, Bowling Green State University.
Fall 1993, Visiting Associate Professor, Texas A&M University.
1986-87, Lecturer, University of Texas at Austin.
1984-85, Visiting Assistant Professor, University of Missouri.

EDITORIAL WORK

Editorial Board, *Far East Journal of Mathematical Sciences*, 1998-.
Editorial Board, *Function Spaces and Applications*, 2002-.

CONFERENCE ORGANIZATION

Co-organizer of special Session on *Geometry of Banach spaces and its connections to other areas*, AMS Meeting, Miami FL, April, 2006.
Co-organizer of the Southeastern Geometry Meeting, March 11-12, 2005.
Co-organizer of Special Session on *Banach Spaces*, AMS Meeting, Columbia SC, March, 2001.
Co-organizer of Special Session on *Modern Banach Space Theory*, AMS Meeting, Atlanta, October 19-21, 1997.
Organizer of the Sixth Southeastern Analysis Meeting, April 6-7, 1990.

MEMBERSHIP OF PROFESSIONAL SOCIETIES

1. American Mathematical Society.
2. London Mathematical Society.
3. Cambridge Philosophical Society.

RECENT GRANT SUPPORT

NSF Division of Mathematical Sciences, *Topics in Banach Space Theory*, Principal Investigator, 2007-2011.

PH.D. AND MS STUDENTS

Yu-Ping Hsu, *The uniform Kadec-Klee property in the unitary matrix spaces C_E and the Lorentz spaces $L_{w,1}$* , Ph.D. August, 1993.
Joseph P. Patterson, *An Extension of Elton's ℓ_1^n Theorem to Complex Banach Spaces*, MS, June 2001.

PUBLICATIONS

1. S. J. Dilworth, *On the dimension of almost Hilbertian subspaces of quotient spaces*, J. London Math. Soc. **30** (1984), 481-485.
2. S. J. Dilworth, *The dimension of Euclidean subspaces of quasi-normed spaces*, Math. Proc. Cambridge Philos. Soc. **97** (1985), 311-320.
3. S. J. Dilworth, *Universal non-compact operators between super-reflexive Banach spaces and the existence of a complemented copy of Hilbert space*, Israel J. Math. **52** (1985), 15-27.
4. S. J. Dilworth and S. J. Szarek, *The cotype constant and an almost Euclidean decomposition of finite-dimensional normed spaces*, Israel J. Math. **52** (1985) 82-96.
5. S. J. Dilworth, *Complex convexity and the geometry of Banach spaces*, Math. Proc. Cambridge Philos. Soc. **99** (1986), 495-505.
6. N. L. Carothers and S. J. Dilworth, *Geometry of Lorentz spaces via interpolation*, University of Texas Functional Analysis Seminar Longhorn Notes 1985-86, 107-134.
7. S. J. Dilworth, *Convergence of martingales, subsequences and Hilbertian subspaces of uniformly convex spaces*, University of Texas Functional Analysis Seminar Longhorn Notes 1985-86, 135-150.
8. S. J. Dilworth, *Isometric results on a measure of non-compactness for operators on Banach spaces*, Bull. Austral. Math. Soc. **35** (1987), 27-33.
9. S. J. Dilworth, *Convergence of scalar and vector-valued random variables and a subsequence principle in L_2* , Trans. Amer. Math. Soc. **301** (1987) 375-384.
10. S. J. Dilworth, *Interpolation of intersections of L_p spaces*, Arch. Math. **50** (1988) 51-55.
11. S. J. Dilworth and T. J. Ransford, *Spectra in quasi-Banach algebras*, Functional Analysis Proceedings, The University of Texas at Austin 1986-87 (E. Odell and H. Rosenthal, eds.), Lecture Notes in Math., 1332, Springer-Verlag, Berlin-Heidelberg-New York, 1988, pp. 175-178.
12. S. J. Dilworth, *Intersection of Lebesgue spaces L_1 and L_2* , Proc. Amer. Math. Soc. **103** (1988), 1185-1188.

13. S. J. Dilworth, *Involutions on Banach spaces and reflexivity*, Houston J. Math. **14** (1988), 179-190.
14. N. L. Carothers and S. J. Dilworth, *Inequalities for sums of independent random variables*, Proc. Amer. Math. Soc. **104** (1988), 221-226.
15. N. L. Carothers and S. J. Dilworth, *Subspaces of $L_{p,q}$* , Proc. Amer. Math. Soc. **104** (1988), 537-545.
16. N. L. Carothers and S. J. Dilworth, *Equidistributed random variables in $L_{p,q}$* , J. Funct. Anal. **84** (1989), 146-159.
17. S. J. Dilworth, *A scale of linear spaces related to the L_p scale*, Illinois J. Math. **140** (1990), 140-158.
18. S. J. Dilworth and D. A. Trautman, *On two function spaces which are similar to L_0* , Proc. Amer. Math. Soc. **108** (1990), 451-456.
19. S. J. Dilworth, *A weak topology characterization of $\ell_1(\mathfrak{m})$* , Geometry of Banach spaces (Strobl-am-Wolfgangsee, Austria, 1989) (P. F. X. Müller and W. Schachermayer, eds.), London Math. Soc. Lecture Notes, 158, Cambridge University Press, Cambridge, 1990, pp. 89-94.
20. N. L. Carothers and S. J. Dilworth, *Some Banach space embeddings of classical function spaces*, Bull. Austral. Math. Soc. **43** (1991), 73-77.
21. N. L. Carothers, S. J. Dilworth, C. J. Lennard and D. A. Trautman, *A fixed-point property for the Lorentz space $L_{p,1}(\mu)$* , Indiana Univ. Math. J. **40** (1991), 345-352.
22. N. L. Carothers, S. J. Dilworth and D. A. Trautman, *On the geometry of the unit spheres of the Lorentz spaces $L_{w,1}$* , Glasgow Math. J. **34** (1992), 21-25.
23. S. J. Dilworth, *A Note on the Valuation of Contingent Claims*, Econom. Lett. **39** (1992), 467-471.
24. S. J. Dilworth, *Some probabilistic inequalities with applications to Functional Analysis*, Banach Spaces (Merano, Venezuela, 1992) (W. B. Johnson and B.-L. Lin, eds.), Contemp. Math., 144, Amer. Math. Soc., Providence R.I., 1993, pp. 53-67.
25. S. J. Dilworth and Maria Girardi, *Bochner vs. Pettis norm: examples and results* Banach Spaces (Merano, Venezuela, 1992) (W. B. Johnson and B.-L. Lin, eds.), Contemp. Math., 144, Amer. Math. Soc., Providence R.I., 1993, pp. 69-80.
26. S. J. Dilworth and S. J. Montgomery-Smith, *The distribution of vector-valued Rademacher series*, Ann. Probab. **21** (1993), 2046-2052.
27. M. Besbes, S. J. Dilworth, P. N. Dowling and C. J. Lennard, *New convexity and fixed-point properties in Hardy and Lebesgue-Bochner spaces*, J. Funct. Anal. **119** (1994), 340-357.
28. S. J. Dilworth and A. L. Koldobsky, *The Fourier Transform of Order Statistics with Applications to Lorentz Spaces*, Israel J. Math. **92** (1995), 411-426.
29. S. J. Dilworth, Maria Girardi and Denka Kutzarova, *Banach spaces which admit a norm with the uniform Kadec-Klee property*, Studia Math. **112** (1995), 267-277.
30. S. J. Dilworth and Maria Girardi, *Nowhere weak differentiability of the Pettis integral* Quaestiones Math. **18** (1995), 365-380.
31. S. J. Dilworth and Denka Kutzarova, *Kadec-Klee properties for $\mathcal{L}(\ell_p, \ell_q)$* , Function Spaces (Edwardsville IL, 1994) (K. Jarosz, ed.), Lecture Notes in Pure and

- Appl. Math., 172, Marcel Dekker, New York, 1995, pp. 71-83.
32. N. L. Carothers, S. J. Dilworth and C. J. Lennard, *On a localization of the UKK property and the fixed point property in $L_{w,1}$* , The Interaction between Harmonic Analysis, Functional Analysis and Probability Theory (Columbia Mo, 1994) (N. J. Kalton, S. J. Montgomery-Smith and E. Saab eds.), Lecture Notes in Pure and Appl. Math., 175, Marcel Dekker, New York, 1995, pp. 111-124.
 33. S. J. Dilworth and Yu-Ping Hsu, *The uniform Kadec-Klee property for the Lorentz spaces $L_{w,1}$* , J. Austral. Math. Soc. (Series A) **60** (1996), 7-17.
 34. S. J. Dilworth and C. J. Lennard, *Uniformly Kadec-Klee Lorentz spaces $L_{w,1}$ and uniformly concave functions*, Canad. Math. Bull. **39** (1996), 266-274.
 35. S. J. Dilworth and Yu-Ping Hsu, *On a property of Kadec-Klee type for quasi-normed unitary matrix spaces*, Bhattacharya Memorial Volume Part II, Far East J. Math. Sci. (1996), 183-194.
 36. S. J. Dilworth and Maria Girardi, *An application to the Pettis integral of a factorization theorem of Pisier*, Séminaire Initiation à l'Analyse 1994-95, Publications Mathématiques de l'Université Pierre et Marie Curie, pp. 2001-2009, 1996 .
 37. S. J. Dilworth and David Sobecki, *On hereditariness for real and complex interpolation*, Far East J. Math. Sci. **5** (1997), 91-98.
 38. S. J. Dilworth, *Intersections of centred sets in normed spaces*, Far East J. Math. Sci. Special Volume (1998), Part II, 129-136.
 39. S. J. Dilworth, *Approximate isometries on finite-dimensional normed spaces*, Bull. London Math. Soc. **31** (1999), 471-476.
 40. S. J. Dilworth, *On the extensibility of certain homeomorphisms and linear isometries*, Proc. Third Conf. on Function Spaces, SIUE, May 9-16, 1998, Contemp. Math. **232** (1999), 119-130.
 41. S. J. Dilworth, Ralph Howard and James W. Roberts, *Extremal approximately convex functions and estimating the size of convex hulls*, Adv. in Math. **148** (1999), 1-43.
 42. S. J. Dilworth, Maria Girardi and J. Hagler, *Dual Banach spaces which contain an isometric copy of L_1* , Bull. Polish. Acad. Sci. Math. **48** no. 1 (2000), 1-12.
 43. N. L. Carothers, S. J. Dilworth and David Sobecki, *Splittings of Banach spaces induced by Clifford algebras*, Proc. Amer. Math. Soc. **128** (2000), 1347-1356.
 44. S. J. Dilworth, Maria Girardi and W. B. Johnson, *Geometry of Banach Spaces and Biorthogonal Systems*, Studia Math. **140** (2000), 243-271.
 45. S. J. Dilworth, Ralph Howard and James W. Roberts, *On the size of approximately convex sets in normed spaces*, Studia Math. **140** (2000), 213-241.
 46. Paul Abraham, John Alexopoulos and S. J. Dilworth, *On the Convergence in Mean of Martingale Difference Sequences*, Quaestiones Math. **23** (2000), 193-202.
 47. S. J. Dilworth and David Mitra, *A conditional quasi-greedy basis of ℓ_1* , Studia Math., **144** (2001), 95-100.
 48. S. J. Dilworth and Maria Girardi, *On various modes of scalar convergence in $L_0(X)$* , J. Math. Anal. Appl., **259** (2001), 660-684.
 49. S. J. Dilworth and Denka Kutzarova, *On the optimality of a theorem of Elton on ℓ_1^n subsystems*, Israel J. Math. **124** (2001), 215-220.

50. S. J. Dilworth, Denka Kutzarova and S. L. Troyanski, *On some uniform geometric properties in function spaces*, in: T. Banach (ed.), *General Topology in Banach Spaces*, Nova Sci. Publ., Huntington, New York, 2001, 127-135.
51. S. J. Dilworth, *Special Banach Lattices and their Applications* in: William B. Johnson and Joram Lindenstrauss (eds.), *Handbook on the Geometry of Banach Spaces Vol. 1*, North Holland, Amsterdam, 2001, 497-532.
52. S. J. Dilworth, Denka Kutzarova and N. J. Kalton, *Greedy bases in Banach spaces*, in: 'Approximation Theory: a volume dedicated to B. Sendov', DARBA, Sofia, 2002, 133-136.
53. S. J. Dilworth, Denka Kutzarova and P. Wojtaszczyk, *On approximate ℓ_1 systems in Banach spaces*, *J. Approx. Theory* **114** (2002), 214-241.
54. S. J. Dilworth, Denka Kutzarova and V. N. Temlyakov, *Convergence of some greedy algorithms in Banach spaces*, *J. Fourier Anal. Appl.* **8** (2002), 489-505.
55. S. J. Dilworth, Ralph Howard and James W. Roberts, *Extremal approximately convex functions and the best constants in a theorem of Hyers and Ulam*, *Adv. in Math.* **172** (2002), 489-505.
56. S. J. Dilworth and Joseph P. Patterson, *An Extension of Elton's ℓ_1^n Theorem to Complex Banach Spaces*, *Proc. Amer. Math. Soc.* **131** (2003), 1489-1500.
57. S. J. Dilworth and Vladimir G. Troitsky, *The spectrum of a hypercyclic operator meets the unit circle*, *Trends in Banach Spaces and Operator Theory (Memphis, TN, 2001)* 67-69 *Contemp. Math.*, **321**, Amer. Math. Soc. Providence, RI, 2003.
58. S. J. Dilworth, Denka Kutzarova, N. J. Kalton and V. N. Temlyakov, *The Thresholding Greedy Algorithm, Greedy Bases, and Duality*, *Constr. Approx.* **19** (2003), 575-597.
59. S. J. Dilworth, N. J. Kalton and Denka Kutzarova, *On the existence of almost greedy bases in Banach spaces*, *Studia Math.* **159** (2003), 67-101.
60. S. J. Dilworth, Ralph Howard and James W. Roberts, *A General Theory of Approximately Convex Functions*, *Trans. Amer. Math. Soc.* **358** (2006), no. 8, 3413-3445 (electronic).
61. S. J. Dilworth, Mark Hoffmann and Denka Kutzarova, *Nonequivalent greedy and almost greedy bases of ℓ_p* , *J. Funct. Spaces Appl.* **4** (2006), no. 1, 25-42.
62. S. J. Dilworth, Denka Kutzarova and Karen Shuman, *The weak Chebyshev X -greedy algorithm in the unweighted Bergman spaces*, *J. Math. Anal. Appl.* **318** (2006), no. 2, 692-706.
63. G. Androulakis, K. Beanland, S. J. Dilworth and F. Sanacory, *Embedding ℓ_∞ into the space of bounded operators on certain Banach spaces*, *Bull. London Math. Soc.* **38** (2006), no. 6, 979-990.
64. S. J. Dilworth, V. Ferenczi, Denka Kutzarova, and E. Odell, *On asymptotic ℓ_p spaces and minimality*, *J. London Math. Soc.* **75** (2007), 409-419.
65. S. J. Dilworth and B. Sari, *Orlicz sequence spaces with denumerable sets of symmetric sequences* in: Beata Randrianantoanina and Narcisse Randrianantoanina (eds.) *Banach Spaces and their Applications in Analysis In Honor of Nigel Kalton's 60th Birthday*, de Gruyter Proceedings in Mathematics, 2007, pp. 77-82.
66. S. J. Dilworth, E. Odell, and B. Sari, *Lattice Structures and Spreading Models*, *Israel J. Math.* **61** (2007), 387-411.

67. S. J. Dilworth, E. Odell, Th. Schlumprecht and A. Zsák, *Coefficient Quantization in Banach spaces*, Found. Comput. Math. **8** (2008), 703–736.
68. P. G. Casazza, S. J. Dilworth, E. Odell, Th. Schlumprecht and A. Zsák, *Coefficient Quantization for Frames in Banach spaces*, J. Math. Anal. Appl. **348** (2008), 66–86.
69. S. J. Dilworth, Denka Dutzarova, K. Shuman, V. N. Temlyakov and P. Wojtaszczyk, *Weak Convergence of Greedy Algorithms in Banach Spaces*, J. Fourier Anal. Appl. **14** (2008), 609–628.
70. S. J. Dilworth, E. Odell, Th. Schlumprecht and A. Zsák, *Partial Unconditionality*, Houston J. Math. **35** (2009), 1251–1311.
71. S. J. Dilworth, E. Odell, Th. Schlumprecht, and András Zsák, *On the Convergence of Greedy Algorithms for Initial Segments of the Haar Basis*, Math. Proc. Camb. Phil. Soc. **148** (2010), 519–529.
72. G. Androulakis, S. J. Dilworth, and N. J. Kalton, *A New Approach to the Ramsey-type Games and the Gowers Dichotomy in F -Spaces*, Combinatorica **30** (2010), 359–385.
73. S. J. Dilworth and S. R. Mane, *Inscribing a regular m -gon into a regular n -gon*, J. Geom. **97** (2010), 59–67.
74. S. J. Dilworth, D. Freeman, E. Odell and Th. Schlumprecht, *Greedy Bases for Besov Spaces*, Constr. Approx., published online: July 13, 2010.
75. Jean Bourgain, S. J. Dilworth, Kevin Ford, Sergei V. Konyagin, and Denka Kutzarova, *Explicit constructions of RIP matrices and related problems*, Duke Math. J., accepted 2010.
76. S. J. Dilworth, E. Odell, Th. Schlumprecht, and András Zsák, *Renormings and symmetry properties of 1-greedy bases*, submitted.

BOOK REVIEWS

M. Sh. Braverman, *Independent Random Variables and Rearrangement Invariant Spaces* (London Math. Soc. Lecture Notes Ser., vol. 194, Cambridge University Press, 1994), Bull. London Math. Soc. **28** (1996), 553–554.

PAPERS PRESENTED AT PROFESSIONAL MEETINGS

1. *Complemented Hilbertian subspaces of uniformly convex spaces*, Miniconference on Analysis, Indiana University - Purdue University at Indianapolis, April 1985 (contributed).
2. *Complemented Hilbertian subspaces of uniformly convex spaces*, Conference on Banach spaces and Classical Analysis, Kent State University, August 1985 (contributed).
3. *Convergence of certain martingales*, Special Session on Banach Space Theory at the American Mathematical Society Regional Meeting at University of Missouri-Columbia, November 1985 (invited).
4. *The Lorentz space $L_{p,q}(0, \infty)$ and moment inequalities for sums of independent random variables in $L_{p,q}$* , Conference on Banach Space Theory, Mathematisches Forschungsinstitut Oberwolfach (Germany), October 1986 (invited).

5. *Subspaces of $L_{p,q}$* , Special Session on Banach Space Theory at the American Mathematical Society Regional Meeting at North Texas State University, November 1986 (invited).
6. *Geometry of Lorentz spaces through interpolation*, Symposium on the Applications of Banach space Theory, Cambridge University (England), December 1986 (invited 50 minute plenary address).
7. *Unconditional and disjoint sequences in some function spaces*, Special Session of Banach Spaces and Harmonic Analysis at the American Mathematical Society Regional Meeting at Kent State University, April 1987 (invited).
8. *Random variables and rearrangement-invariant norms*, Conference on “Operators on Martingales”, University of Arkansas, April 1987 (invited).
9. *On intersection of Lebesgue spaces*, Special Session on Banach Space Theory at the Annual Meeting of American Mathematical Society, Atlanta, January 1988 (invited).
10. *Analysis through the looking glass: some classical and not-so-classical Banach spaces*, Canadian Mathematical Society Annual Seminar on Banach Spaces and Convex Bodies, Banff (Canada), June 1988 (invited).
11. Invited Participant at the Microprogram on Banach Space Theory, Mathematical Sciences Research Institute (Berkeley), June-July 1988.
12. *On two function spaces which are similar to L_0* , Conference on the Geometry of Banach Spaces, Strobl-am-Wolfgangsee (Austria), June 1989 (invited).
13. *A Fixed Point Property for the Lorentz spaces $L_{p,1}(\mu)$* , Special Session on Banach Space Theory and Functional Analysis at the American Mathematical Society Regional Meeting at the University of North Texas, November 1990 (invited).
14. *A Fixed Point Property for the Lorentz spaces $L_{p,1}(\mu)$* , U.S.-Israel Binational Foundation Workshop on Banach Space Theory and its Applications, Jerusalem (Israel), June 1991 (invited).
15. *Some convexity and fixed point properties for Hardy and Lebesgue-Bochner spaces*, Winter School in Abstract Analysis, Strobl-am-Wolfgangsee (Austria), February 1992 (invited).
16. *Some convexity and fixed point properties for Hardy and Lebesgue-Bochner spaces*, Functional Analysis Meeting, The Citadel, April 1992 (invited).
17. *New convexity and fixed point properties for Hardy and Lebesgue-Bochner spaces*, Session on Functional Analysis, Joint Meeting of the American Mathematical Society and the London Mathematical Society, Cambridge (England), July 1992 (contributed).
18. *A result on the distribution of vector-valued Rademacher series*, International Conference on Functional Analysis, Mons (Belgium), August 1992 (invited).
19. *The distribution of vector-valued Rademacher series*, Special Session on Banach Space Theory at the Annual Meeting of the American Mathematical Society, San Antonio, January 1993 (invited).
20. *Banach spaces which admit a norm with the uniform Kadec-Klee property*, Functional analysis Meeting, Miami University, April 1993 (invited).
21. *Banach spaces which admit a norm with the uniform Kadec-Klee property*, Summer Informal Regional Functional Analysis Seminar, Texas A&M University,

August 1993.

22. *Banach spaces which admit a norm with the uniform Kadec-Klee property*, Special Session on Banach Spaces and Operator Theory, Texas A&M University, October 1993 (invited).

23. *The Fourier transform of order statistics with applications to Lorentz spaces*, International Conference on “The interaction between Functional Analysis, Harmonic Analysis and Probability Theory”, University of Missouri-Columbia, June 1994 (contributed).

24. *Differentiability of the Pettis integral and weak and scalar convergence almost everywhere*, Conference on Infinite-dimensional Banach Space Theory, Mathematical Sciences Research Institute, Berkeley, February 1996 (50 minute plenary address).

25. *On various modes of scalar convergence in $L_0(X)$* , Special Session on Geometric Functional Analysis, American Mathematical Society Regional Meeting at Rider University, October 1996 (invited).

26. *Inextensible homeomorphisms of Lebesgue null subsets of Euclidean sets with an application to extensible isometries of subspaces of $C(\Delta)$* , Special Session on Banach Spaces and Related Topics, American Mathematical Society Regional Meeting at the University of Missouri-Columbia, November 1996. (invited).

27. *A Renorming of L_1* , Conference on Modern Banach Space Theory, Kent State University, December 1996 (contributed).

28. *On non-surjective approximate isometries*, Special Session on Banach Spaces, American Mathematical Society Regional Meeting at the University of Louisville (Shelby Campus), March 20-21, 1998 (invited).

29. *On the extensibility of certain homeomorphisms and linear isometries*, Third Conference on Function Spaces, SIUE, May 19-23, 1998 (invited).

30. *Extremal approximately convex sets*, Geometric Aspects of Fourier and Functional Analysis, Kiel, Germany, August 10-14, 1998 (invited).

31. *Approximately convex sets in normed spaces*, Third International Conference on Abstract Analysis in Africa, Kruger National Park, South Africa, June, 2000 (invited).

32. *On the optimality of Elton's ℓ_1^n theorem and a complex version*, Trends in Banach Spaces and Operator Theory, University of Memphis, October, 2001 (invited).

33. *Convergence of some greedy algorithms in Banach spaces*, Special Session on ‘Banach spaces and their Applications’, American Mathematical Society Regional Meeting, Atlanta, March, 2002 (invited).

34. *Bases for which the greedy algorithm works*, Conference on ‘Banach Spaces’, Pacific Institute of Mathematical Sciences, Vancouver, August, 2002 (invited).

35. *Greedy convergence in Banach spaces*, Conference on ‘Banach Spaces and Applications’, University of Memphis, October 17, 2003, 40 minute plenary address.

36. *Approximately Convex Functions and Fixed Points*, Special Session on Applications of Fixed Point Theory, Annual Meeting of the American Mathematical Society, Phoenix, Arizona, January 8, 2004 (invited).

37. *Greedy convergence in Banach spaces*, Special Session on Infinite-dimensional Banach space theory, American Mathematical Society Sectional Meeting, Athens,

Ohio, March 26, 2004 (invited).

38. *Lattice Structures and Spreading Models*, Summer Informal Regional Functional Analysis Seminar, Texas A & M University, August 5, 2005.

39. *Lattice Structures and Spreading Models*, Special Session on Interdisciplinary Research involving Analysis and Logic, Annual Meeting of the American Mathematical Society, San Antonio, January 13, 2006 (invited).

40. *Coefficient Quantization in Banach spaces*, Conference on ‘Banach spaces and their Applications in Analysis’, Miami University (Ohio), May 23, 2006 (50 minute plenary address).

41. *Coefficient Quantization in Banach Spaces*, Concentration Week on ‘Frames, Banach Spaces, and Signal Processing’, August 7, 2006 (50 minute plenary address).

42. *Coefficient Quantization in Banach Spaces*, Special Session on Function Spaces, First Joint Meeting of the Polish Mathematical Society and the American Mathematical Society, Warsaw, August 2007 (invited).

43. *Partial Unconditionality*, Association for Symbolic Logic Special Session on ‘Set Theory and Banach Spaces’, AMS-MAA Annual Meeting, San Diego, January 7, 2008 (invited).

44. *Discretization of Basis Coefficients in Banach spaces*, Special Session on ‘Banach Spaces’, Canadian Mathematical Society Winter Meeting, Ottawa, December 7, 2008 (invited).

45. *Convergence of some Greedy Algorithms in Banach Spaces*, Workshop in Analysis and Probability, Texas A& M University, July 25, 2008 (invited).

46. *Convergence of some Greedy Algorithms in Banach Spaces* (two one-hour talks), North British Functional Analysis Seminar, Lancaster University, April 27, 2009 (Principal Speaker).

47. *Greedy Bases for Besov Spaces*, From Banach Spaces to Frame Theory and Applications, A Conference in Honor of Professor Pete Casazza’s 65th birthday, University of Maryland, May 22, 2010 (invited).

48. *Greedy Bases for Besov Spaces*, International Functional Analysis Meeting in Valencia on the occasion of the 80th birthday of Professor Manuel Valdivia, June 11, 2010 (invited).

49. *Explicit Constructions of RIP Matrices and Related Problems*, Special Session on Banach Spaces and Applications, American Mathematical Society Sectional Meeting, Richmond, November 7, 2010 (invited).

SEMINARS AND COLLOQUIA

1. *Embedding complex cubes in Banach spaces*, Cambridge University Analysis Seminar, Lent Term 1982.

2. *J-convexifying operators on Banach spaces*, Cambridge University Analysis Seminar, Lent Term 1983.

3. *Almost Hilbertian subspaces of quotient spaces*, Cambridge University Analysis Seminar, Lent Term 1984.

4. *The cotype constant and large Euclidean subspaces of normed spaces*, Cambridge University Analysis Seminar, Easter Term 1984.

5. *Large Euclidean subspaces of normed spaces* (two talks), University of Missouri-Columbia Modern Analysis Seminar, Fall 1984.
6. *Complemented Hilbertian subspaces of uniformly convex spaces*, University of Missouri-Columbia Modern Analysis Seminar, Fall 1984.
7. *Almost sure convergence of martingales*, University of Missouri-Columbia Modern Analysis Seminar, Spring 1985.
8. *On the essential norm of an operator and its adjoint*, University of Missouri-Columbia Modern Analysis Seminar, Spring 1985.
9. *Euclidean decompositions of Banach spaces*, Colloquium, University of Missouri-Columbia, Spring 1985.
10. *Almost sure convergence of martingales in uniformly convex spaces* (three talks), University of Texas Banach Space Theory Seminar, Fall 1985.
11. *Almost sure convergence of martingales in uniformly convex spaces*, Texas A&M University Functional Analysis Seminar, December 1985.
12. *Geometry of Lorentz spaces via interpolation* (two talks), Kent State University Analysis Seminar, Spring 1986.
13. *Euclidean decompositions of Banach spaces*, Colloquium, University of South Carolina, February 1986.
14. *Euclidean decompositions of Banach spaces*, Colloquium, Syracuse University, February 1986.
15. *Independent random variables in rearrangement-invariant spaces*, University of Texas Banach Space Theory Seminar, Fall 1986.
16. *A short proof of Johnson's Uniqueness of Norm Theorem (after T. J. Ransford)*, University of Texas Banach Space Theory Seminar, Spring 1987.
17. *A short proof of Johnson's Uniqueness of Norm Theorem (after T. J. Ransford)*, University of South Carolina Functional Analysis Seminar, Fall 1987.
18. *A scale of linear spaces related to the L_p scale*, Colloquium, The Citadel, Spring 1988.
19. *A theorem of Radon-Riesz type for the Lorentz spaces $L_{p,1}(\mu)$* , University of Paris Functional Analysis Seminar, January 1989.
20. *A theorem of Radon-Riesz type for the Lorentz spaces $L_{p,1}(\mu)$* , Colloquium, Emory University, Spring 1989.
21. *Approximation of zonoids by zonotopes (series of five talks)*, University of South Carolina Functional Analysis Seminar, Spring 1990.
22. *On the Bishop-Phelps Theorem (two talks)*, University of South Carolina Functional Analysis Seminar, Fall 1991.
23. *The distribution of vector-valued Rademacher series*, National Science Foundation Workshop in Linear Analysis and Probability, Texas A&M University, August 1993.
24. *Banach spaces which admit a norm with the uniform Kadec-Klee property*, University of Texas Banach Space Theory Seminar, September 1993.
25. *The Fourier transform of order statistics with applications to Lorentz spaces*, Texas A&M University Linear Analysis Seminar, December 1993.

26. *Lorentz spaces which are isometric to subspaces of L_q* (two talks), Bowling Green State University Analysis Seminar, January 1994.
27. *Recent Advances in Banach Space Theory*, Colloquium, The University of Pittsburgh, February 1994.
28. *Recent Advances in Banach Space Theory*, Colloquium, Miami University, March 1994.
29. *Recent Advances in Banach Space Theory*, Colloquium, Bowling Green State University, March 1994.
30. *Recent Advances in Banach Space Theory*, Colloquium, University of Texas at El Paso, April 1994.
31. *Banach spaces which admit a norm with the uniform Kadec-Klee property*, University of Texas at El Paso Analysis Seminar, April 1994.
32. *Scalar convergence in measure and scalar almost everywhere convergence in $L_1(X)$* , Bowling Green State University Analysis Seminar, April 1994.
33. *The distribution of vector-valued Rademacher series*, Laval University Analysis Seminar, Quebec City (Canada), October 1994.
34. *Hilbert space is arbitrarily distortable (after Odell and Schlumprecht)*, series of six talks, University of South Carolina Functional Analysis Seminar, Fall 1995.
35. *Existence of hyper-invariant subspaces for compact operators (after P. Enflo)*, University of South Carolina Functional Analysis Seminar, Fall 1996.
36. *Approximate isometries on finite-dimensional normed spaces* (two talks), University of South Carolina Functional Analysis Seminar, Fall 1997.
37. *Extremal approximately convex sets*, Colloquium, University of Pittsburgh, March 1999.
38. *The Banach-Mazur distance to the cross-polytope*, series of eight talks, University of South Carolina Functional Analysis Seminar, Fall 1999.
39. *A greedy property of the Haar system*, IMI Seminar, Fall 2000.
40. *Greedy Algorithms and Thresholding I*, Functional Analysis Seminar, University of Texas at Austin, October 2001.
41. *Greedy Algorithms and Thresholding II*, Functional Analysis Seminar, University of Texas at Austin, October 2001.
42. *Bases for which the greedy algorithm works*, Analysis Seminar, University of Illinois at Urbana-Champaign, April, 2002.
43. *Bases for which the greedy algorithm works*, Linear Analysis Seminar, Texas A&M University, April, 2002.
44. *Existence of almost greedy bases in Banach spaces*, series of four talks, Greedy Algorithms Seminar, University of South Carolina, Spring 2003.
45. *The spectrum of a hypercyclic operator meets the unit circle*, Analysis Seminar, University of South Carolina, October 10, 2003.
46. *Convergence of a greedy algorithm in Bergman spaces* (series of two seminar talks), Nonlinear Approximation Seminar, University of South Carolina, Fall 2004.
47. *On the set of spreading models of a Banach space*, Analysis Seminar, University of South Carolina, Spring 2005.

48. *Coefficient Quantization in Banach spaces*, Analysis Seminar, Centre for Mathematical Sciences, Cambridge University, June 14, 2006 (invited).
49. *On asymptotic ℓ_p spaces and minimality*, Analysis Seminar, University of South Carolina, September 8, 2006.
50. *On a theorem of Rogers* (series of two talks), Analysis Seminar, University of South Carolina, Spring, 2007.
51. *Short proof of the concentration inequality for random projections*, Compressed Sensing Seminar, University of South Carolina, December 3, 2007.
52. *Partial Unconditionality for Subsequences of Weakly Null Sequences*, Analysis Seminar, University of South Carolina, January 18, 2008.
53. *Partial Unconditionality for Subsequences of Weakly Null Sequences*, Compressed Sensing Seminar, University of South Carolina, February 5, 2008.
54. *A New Approach to Gowers's Block Ramsey Theorem*, Banach Spaces Seminar, University of Texas at Austin, April 8, 2008.
55. *Convergence of some Greedy Algorithms in Banach Spaces*, Functional Analysis Seminar, University of Leeds (England), June 27, 2008.
56. *Discretized Basis Coefficients in Banach Spaces*, Analysis Seminar, University of South Carolina, September 12, 2008.
57. *Greedy Algorithms with respect to Initial Segments of the Haar Basis*, Compressed Sensing and Greedy Algorithms Seminar, University of South Carolina, September 25, 2008.
58. *A New Proof of the Gowers Dichotomy with Application to F -Spaces*, Banach Space Theory Seminar, Texas A& M University, February 20, 2009 (invited).
59. *Branch Greedy Algorithms in Banach Spaces*, Banach Spaces Seminar, University of Texas at Austin, March 5, 2009 (invited).
60. *Convergence of Some Greedy Algorithms in Banach Spaces*, Millikan Lecture (colloquium), University of North Texas, April 3, 2009 (invited).
61. *Convergence of Some Greedy Algorithms in Banach Spaces*, Functional Analysis Seminar, Oxford University (England), May 12, 2009 (invited).
62. *Convergence of Some Greedy Algorithms in Banach Spaces*, Analysis Seminar, University of Illinois at Urban-Champaign, November 19, 2009 (invited).
63. *Frames Generating a Dense Subgroup*, Analysis Seminar, University of South Carolina, October 28, 2009.
64. *Introduction to the Ito Integral*, Series of three talks, Compressed Sensing and Stochastic Differential Equations Seminar, University of South Carolina, Fall, 2010.