

Last Update: May, 2007

Curriculum Vitae

Personal Data

Thomas Berthold Schlumprecht

Marital status: married to Michele Silvan. Child: Nicolas Silvan Schlumprecht.

Nationality: German

Visa Status (in the USA): permanent resident since September 1997.

Education

Diplom Ludwig – Maximilians-Universität, München (West-Germany) 1982

Dr. rer. nat.(Ph.D.) Ludwig – Maximilians-Universität, München (West-Germany) 1988
(Summa cum laudem)

Professional Experience

1/01– 9/05	Associate Head (for Graduate studies)	Texas A&M University, College Station
9/99–	Professor	Texas A&M University, College Station
9/95 – 9/99	Associate Professor	Texas A&M University, College Station
9/92 – 9/95	Assistant Professor	Texas A&M University, College Station
9/90 – 4/92	Assistant Professor	Louisiana State University (on leave:9/90-9/91)
9/88 – 9/91	Instructor (postdoc)	University of Texas at Austin
1/87 – 8/88	Teaching Associate	Universität München
1/85 – 12/86	Fellowship	State of Bavaria
9/82 – 12/84	Actuary	Wintherthur Company, München

Visiting Position (longer than one month)

- ★ Visiting Scientist, Weizmann Institut, Rehovot, Israel, January 99 – March 99
- ★ Visiting Member, Mathematical Science Research Institut, Berkeley, January 96 – Mai 96
- ★ Visiting Professor, Universidad Complutense, Madrid, Spain, Mai 92 – August 92,

Languages: English, German, Spanish, French

RESEARCH

Preprints

- [1] R. Haydon, E. Odell, and Th. Schlumprecht, *Small subspaces of L_p* , (approximately 40 pages).
- [2] S. Dilworth, E. Odell, Th. Schlumprecht and A. Zsak, *Partial Unconditionality*, (approximately 50 pages).
- [3] Th. Schlumprecht, *On the robustness of option pricing*, (approximately 16 pages).

Papers to appear

- [1] E. Odell, Th. Schlumprecht and A. Zsak, *A new infinite game in Banach spaces with applications*, Contemp. Math. Amer. Math. Soc., (approximately 30 pages)..
- [2] E. Odell, Th. Schlumprecht and A. Zsak, *On the structure of asymptotic ℓ_p spaces*, Quartely Oxford Journal in Mathematics, (approximately 32 pages).
- [3] B. Sari, Th. Schlumprecht, N. Tomczak-Jaegermann, and V.G. Troitsky, *On norm closed ideals in $L(\ell_p, \ell_q)$* , Studia Mathematica, (approximately 25 pages).
- [4] S. Dilworth, E. Odell, Th. Schlumprecht and A. Zsak, *On the Coefficient Quantization Property in Banach spaces*, Foundations of Computational Mathematics, (approximately 30 pages).

Papers in Print

- [1] E. Odell and Th. Schlumprecht, *A universal reflexive space for the class of uniformly convex Banach spaces*, Math. Ann., **335**, no. 4 (2006) 901–916.
- [2] E. Odell and Th. Schlumprecht, *Embedding into Banach spaces with finite dimensional decompositions*, Rev. R. Acad. Cien Serie A Mat., **100**, (2006) 295–323.
- [3] N. J. Laustsen, Th. Schlumprecht and A. Zsak, *The lattice of closed ideals in the Banach algebra of operators on a certain dual Banach spaces*, Journal of Operator Theory, **56**, (2006) 391–402
- [4] E. Odell, George Androulakis, Th. Schlumprecht and N. Tomczak Jaegerman, *On the structure of the spreading models of a Banach space*, Canadian Journal of Mathematics, **4**, (2005) 673–707.
- [5] Th. Schlumprecht, *How many operators do there exist on a Banach space? Trends in Banach spaces and operator theory (Memphis, TN, 2001)*, Contemp. Math., **321**, Amer. Math. Soc., Providence, RI, (2003) 295–333.

- [6] Th. Schlumprecht and V. Troitsky, *On quasi-affine transforms of Read's operator*, Proc. Amer. Math. Soc., **131**, no. 5, (2003) 1405–1413.
- [7] G. Androulakis and Th. Schlumprecht, *S is complementably minimal and subsequentially block prime*, Studia Math., **156**, n0.3 (2003) 227–242.
- [8] E. Odell and Th. Schlumprecht, *Trees and Branches in Banach spaces*, Transaction of the American Mathematical Society, **354**, no. 10 (2002) 4085–4108.
- [9] E. Odell and Th. Schlumprecht, *On Distortion and Asymptotic Structures of Banach spaces*, in: Handbook of the geometry of Banach spaces, Vol. 2, 1333–1360, North-Holland, Amsterdam, 2003. (editors W.B.Johnson and J.Lindenstrauss).
- [10] G. Androulakis and Th. Schlumprecht, *The space of Gowers and Maurey has non trivial operators*, J. London Math. Soc., **64**,, 3, (2001) 655–676.
- [11] E. Odell and Th. Schlumprecht, *A Banach space block finitely universal for monotone Bases*, Transactions of the American Mathematical Society, **4**, (2000) 1859-1888.
- [12] R. J. Gardner, A. Koldobsky and Th. Schlumprecht, *An analytic solution to the Busemann-Petty problem on sections of convex bodies*, Annals of Mathematics (2), **352**, (1999) 173-199.
- [13] H. Knaust E. Odell and Th. Schlumprecht, *On Asymptotic structure, the Szlenk index and UKK properties in Banach spaces*, Positivity, **3**, (1999) 173-199.
- [14] R. J. Gardner, A. Koldobsky and Th. Schlumprecht, *Solution to the Busemann-Petty problem*, Comptes Rendus de l'Academie des Sciences, **328**, (1999) 29-34.
- [15] E. Odell and Th. Schlumprecht, *Asymptotic properties of Banach spaces under renormings*, Journal of the American Mathematical Society, **11**, (1998) 175-188.
- [16] E. Odell and Th. Schlumprecht, *A problem on spreading models*, Journal of Functional Analysis, **153**, (1998) 249-261.
- [17] P. Hitzczenko, S. Kwapien, W. Li, G. Schechtman, Th. Schlumprecht, and J. Zinn, *Hypercontractivity and comparison of moments of iterated maxima and minima of independent random variables*, electron. Journal of Probability, **3**,No.2, (1998.)
- [18] G. Schechtman, Th. Schlumprecht and J. Zinn, *On the Gaussian measure of the intersection of two symmetric convex sets*, Annals of Probability, **26**, (1998) 346-357.
- [19] E. Odell and Th. Schlumprecht, *On the richness of the set of p 's in Krivine's theorem*, Geometric aspects of Functional analysis, Oper. Theory Adv. Appl., **77**, (1995) 177-198.
- [20] E. Odell and Th. Schlumprecht, *The distortion problem*, Acta Mathematica, **173**, (1994) 259–281.
- [21] M. Lindström, and Th. Schlumprecht, *A characterization of Fréchet-Schwartz spaces*, Bull. London Math Soc., **25**, (1993) 55–58.
- [22] E. Odell, H. Rosenthal, and Th. Schlumprecht, *On weakly null F.D.D.'s*, Israel Journal of Mathematics, **84**, (1993) 333–351.
- [23] E. Odell and Th. Schlumprecht, *The distortion of Hilbert space*, Geometric and Functional analysis, Birkhaeuser Verlag, **3 no.2**, (1993) 201–207.

- [24] Th. Schlumprecht, *Limited sets in $C(K)$ -spaces and examples concerning the Gelfand Phillips property*, Math. Nachrichten, **157**, (1992) 51–64.
- [25] Th. Schlumprecht, *Limited sets in injective tensor products*, Lecture Notes in Mathematics, Vol. **1970**, Springer Verlag, E. Odell and H. Rosenthal (eds.), (1991) 133–158.
- [26] Th. Schlumprecht, *An arbitrarily distortable Banach space*, Israel Journal of Mathematics, **76**, (1991) 81–95.
Constructs the first known arbitrarily distortable space. Several famous problems in Banach space theory were solved based on this construction.
- [27] Th. Schlumprecht, *A limited set that is not bounding*, Proc. R. Ir. Acad., **90A**, No. 2, (1990) 125–129.
- [28] Th. Schlumprecht, *On dual spaces without weak* convergent convex blocks*, Proc. Amer. Soc., **107**, No. 2, (1989) 395–408.
- [29] M. Lindström and Th. Schlumprecht, *On limitedness in locally convex spaces*, Arch. Math., **53**, (1989) 65–74.
- [30] Th. Schlumprecht, *Limited Sets in Banach Spaces*, (1988) Dissertation.,

Conference Proceedings and Seminar Notes (not refereed)

- [1] J. Bernues and Th. Schlumprecht, *Recientes resultados en la teoria de espacios de Banach*, Publicaciones del Departamento de Analisis de la Universidad Complutense, Madrid, 1994, 1–24.
- [2] E. Odell, and Th. Schlumprecht, *Distortion and stabilized structure in Banach spaces; new geometric phenomen for Banach spaces and Hilbert spaces*, Proceedings of the International Congress of Mathematics in Zürich (1994), 955–965.
- [3] Th. Schlumprecht, *A complimentably minimal Banach space not containing c_0 or ℓ_p* , Seminar notes in Functional Analysis and Partial Differential Equations, (1992) .
- [4] P. Gänsler and Th. Schlumprecht, *Maximal inequalities for stochastic processes which are given as sums of independent processes indexed by pseudo-metric parameter spaces*, Publikationen in Wahrscheinlichkeitstheorie, Universität München, (1989) .

Other Writings

- [1] Th. Schlumprecht, *Mathematics in Finance*, in progress
<http://www.math.tamu.edu/thomas.schlumprecht/mathfin.html>

Invitations to conferences

1. four hour tutorial, *Conference on Set theory of the reals*, May, 2007,
2. three 1 hour talks, *35. Winterschool in Abstract Analysis, Lhota Czech Republic*, January, 2007,
3. Invited participant, *Workshop on the Kadison Singer Problem, American Institut of Mathematics*, October 2006,
4. 1 hour, *London Mathematical Society Regional Meeting Leeds*, July 2006,
5. 1 hour, *Banach spaces and their applications in Analysis, Miami University, Oxford, Ohio*, May 2006,
6. 30 Mins, *AMS-ASL Special Session on Interdisciplinary Research Involving Analysis and Logic, National Meeting of the AMS*, Jan 2006.,
7. 1 hour, *Informal Regional Functional Analysis Seminar, College Station, Texas*, August 2005.,
8. 1 hour, *Contemporary Ramifications of Banach Space Theory, Jerusalem, Israel* , June 2005.,
9. 1 hour, *Workshop on Geometric Methods in Analysis and Probability, Schroedinger Institut, Vienna, Austria*., May 2005.,
10. 20 Min, *Joint Meeting of the AMS and the Mexican Mathematical Society, Houston, Texas*, May 2004.,
11. 40 Min, *Regional Meeting of the AMS, special session on Banach Spaces, Athens Ohio*, April, 2004.,
12. 1 hour, *Regional Conference in Analysis, Kent, Ohio*, December, 03.,
13. 20 Mins, *National AMS meeting, special session on Banach Spaces and Convex Geometry*, January 03.,
14. 1 hour plenary, *Application of Set theory and Logic to Analysis, Workshop in the Fields Institute, Toronto*, November 02.,
15. 1 hour, *Workshop in Pacific Institute of Mathematics, Vancouver*, July 02.,
16. 1 hour, plenary, *Operator Theory and related areas, Timisoara, Romania*, July 02.,
17. 1 hour, plenary, *Recent Development in the Theory of Banach spaces and related fields, Memphis Tennessee*, October, 2001.,
18. 20-Min, Session, *AMS-Conference, South Carolina*, March 2001.,
19. 1 hour, address, *Regional conference in Analysis, Kent, Ohio*, December 2000.,
20. 1 hour, plenary, *Wabash Conference in Modern Analysis, Indianapolis, Indiana*, October 2000.,
21. 20 Min, *Regional AMS Conference, Austin, Texas*, October, 1999.,
22. 1 hour, *Conference and Workshop on Geometrical Functional Analysis, Vancouver, Canada*, July, 1999.,
23. 1 hour, *International Conference on Convexity, Schloss Weinberg, Austria*, April, 1999.,

24. *Conference on Functional and Harmonic Analysis, Kiel, Germany, August, 1998.*,
25. 1 hour, *Conference in convex geometry, Oberwolfach, December, 1997.*,
26. 20-minute., *Regional Meeting of the American Mathematical Society at Atlanta, Georgia, October, 1997.*,
27. *III. Italian conference on Mathematics in Finance, June, 1997, Source of funds: hosts and Tarp grant.*
28. 20-minute talk (invited), *Meeting of the American Mathematical Society at Lawrenceville, New Jersey, October, 96, Source of funds: Tarp-grant.*
29. 1 hour, *Geometry in Banach spaces, Oberwolfach, Germany, September, 1996, Source of funds: host (local costs) and NSF grant (travel).*
30. 1 hour, *Interregional functional analysis conference, College Station, Texas, August, 1996.*,
31. *Mathematics in Finance, Mathematical Sciences Research Institut, Berkeley, California, June, 1996.*,
32. 40 mins, *Probabilistic methods in finite dimensional Geometry, Mathematical Sciences Research Institut, Berkeley, California, March, 1996.*,
33. 1 hour, *Infite dimensional convex analysis, Mathematical Sciences Research Institut, Berkeley, California, February, 1996.*,
34. 1 hour, *Joint Meeting of the American Mathematical Society and the Israel Mathematical Union, May, 1995.*,
35. Series of five 1 hour talks, *Spring School in Functional Analysis, Paseky, Czech Republic, April, 1994.*,
36. One hour plenary, *27th Annual Spring Topology Conference, Columbia, South Carolina, March, 1994.*,
37. 20 Min session, *Conference of the American Society, San Antonio, January, 1993.*,
38. 1 hour, *Conference on recent Advances in infinite dimensional Banach Space, Columbia Missouri, April, 1992.*,
39. One hour plenary talk, *International Research Workshop on Banach space, Universidad de los Andes and the University of Iowa, Merida, Venezuela., January, 1992.*,
40. 30 Min., *International Workshop on Banach space, Hebrew University, Jerusalem, Israel, August, 1991.*,
41. 20 Mins, *Meeting of the American Society of Mathematics, Denton, Texas, November, 1990.*,
42. 30 Mins, *International Conference on Banach spaces, Strobl, Austria, June, 1989.*,
43. *International Conference on Banach spaces and related Topics, Mons, Belgium, August, 1987.*,
44. 30 Mins, *International Conference on Function spaces, Poznan, Poland, August, 1986.*,
45. 1 hour, *Fifteenth Winterschool on Abstract Analysis and Topology, Srni, CSSR, January 18–25, 1987.*,

Colloquium Talks

1. University of Thunderbay, Canada March, 2007,
2. Academy of Sciences, Prag February, 2007,
3. Speaker - London Mathematical Society Invited Lecture Series.,
Places of talks
 - Cambridge University, June 2006
 - University College London, June 2006
 - University of Lancaster, June 2006
4. Universidad Oviedo, Oviedo, Spain, February 2006,
5. University of Alberta, Edmonton, Canada,, March 2006,
6. Cambridge University, United Kingdom, May 2005,
7. University of Mississippi, Oxford, Mississippi, February 2005,
8. Trinity University, San Antonio, Texas, October, 2004,
9. University of Alberta, Canada October '04,,
10. Millican Lecture, University of North Texas, Denton February '03,,
11. Institut of Mathematics of the Academy of Science, Warzaw, Poland, January, 2002,
12. Trinity University, San Antonio, Texas, October, 2001,
13. University of Texas at Austin, June, 2000.,
14. Schroedinger Institut, Vienna, Austria, April 99,
15. University of Crete, Greece, May 99,
16. Hebrew University, Jerusalem, Israel, March 99,
17. Technion University, Haiffa , Israel, March 99,
18. University of Munich, Germany, January 99,
19. University of South Carolina, October, 98,
20. University of Munich, Germany, January 98,
21. Instituto Tecnologico Autonomo de Mejico (Department of Finance), April, 1998,
22. Unversity of Texas at Austin, March, 1998,
23. Unversity of Munich, January, 1998,
24. Department of Business, Vienna, Austria, May, 1997,
25. University of Texas, San Antonio, November, 1996,
26. Weizman Institut, Rejovot, Israel, May, 1995,
27. University of Texas at el Paso (Texas), November 1993,
28. Universidad de Sevilla (Spain), July 1 –July 7, 1992, (also seminar 2 hours),
29. Universidad de Valencia (Spain), June 22, 1992
30. Universidad Autonoma (Madrid, Spain), June 15, 1992, (also seminar).

31. Universidad Complutense (Madrid, Spain), May – August, 1992 (also Minicourse, 2 hours per week for 10 weeks).
32. Kent State University (Kent, Ohio), March 20–22, 1992
33. University of Missouri (Columbia, Missouri), October 9–13, 1991,
34. Universidad Complutense (Madrid, Spain), January 8–13, 1990,
35. Academy of Abo (Turko, Finland), June 7–21, 1990,
36. Academy of Abo (Turko, Finland), August 8–23, 1987.

AWARDS AND FUNDING

Recognition and Awards

- ★ University Fellow, (\$ 100,000, period: 2001 - 2006).
- ★ Outstanding Award in Service, Department of Mathematics, April 2001.
- ★ University Research Award of the Association of former Students, May 2000.
- ★ The paper *The distortion problem* (with E.Odell), Acta Math. 173 (1994), no. 2, 259–281 was selected for a featured review by the AMS.

Funding

- (1) NATIONAL SCIENCE FOUNDATION: “Structure theory of infinite Banach spaces”; DMS–930001, \$53,900, PI, June 1992 to June 1995,
- (2) LEQSF: “Structure theory of infinite Banach spaces”; \$30,000, PI, June 1992 to June 1994,
- (3) NATIONAL SCIENCE FOUNDATION: “A Gaussian Correlation Problem and Structure theory of infinite dimensional Banach spaces”; DMS-9501243, \$45,000, PI, June 1995 to June 1997,
- (4) TEXAS ADVANCED RESEARCH PROGRAM (TARP): “A Gaussian Correlation Problem”; 122, \$61,250, PI with J. Zinn, January 1996 to January 1998,
- (5) NATIONAL SCIENCE FOUNDATION: “A Gaussian correlation problem and infinite dimensional structure theory of Banach spaces”; DMS–9706828, \$65,000, PI, June 1997–June 2000,
- (6) NATIONAL SCIENCE FOUNDATION: “ Banach spaces: Theory and Applications”; DMS–0070456, \$78,000, PI, June 2000 - June 2004,

- (7) NATIONAL SCIENCE FOUNDATION: “VIGRE: Department-Wide Infrastructure: Widening the Pipeline for Mathematical Sciences”; DMS-9977354, \$2,300,000, CO-PI, June 2000 - May 2005,
- (8) NATIONAL SCIENCE FOUNDATION: “Banach spaces and operators on them”; DMS-0300058, \$120,000, PI, June 2003 –2006 (no cost extension until June 2007),
- (9) PACIFIC INSTITUT OF MATHEMATICS: Grant to organize Focused Research group on Partial Unconditionality, March 200,
- (10) NATIONAL SCIENCE FOUNDATION: “Banach spaces: Theory and Applications”; DMS-0556013, \$110,000, PI, June 2006 – May 2009,

Membership of Professional Organizations

- ★ American Mathematical Society

SERVICE

Editorial Work

- ★ Appointed to be International Editor for the Glasgow Mathematical Journal, starting January 1999.

Organizing Conferences

- ★ "Frames, Banach Spaces and Signal Processing" (with D. Larson) August 7 - August 11, College Station Texas.
- ★ AMS Special Session on "Geometry of Banach Spaces and Connections with Other Areas", (with S. Dilworth and E. Odell), Miami Florida.
- ★ AMS Special Session on "Extension of Functions" (with A. Arias, C. Fefferman, E. Odell), San Antonio, January 2006.
- ★ "Haskellfest", Miniconference in honor of Haskell Rosenthal (with A. Arias and E. Odell) August 14 - August 15, College Station, 2005.
- ★ Special Session on Banach spaces and Operator spaces, Annual meeting of the AMS,(with G. Pisier) College Station 1994.
- ★ Workshop on the Gaussian Correlation Conjecture and related topics, College Station, June 1998 (with J. Zinn)
- ★ Workshop on the Geometry of Banach spaces and infinite Ramsey theory (with E. Odell, S. Todorćević, and N. Tomczak-Jaegerman), Fields Institute, Toronto, Canada, November 2002.

Reviewing and Refereeing

- ★ Refereed for: Israel Journal of Mathematics; Proceedings of the AMS; Pacific Journal of Mathematics; Studia Mathematica; Fundamenta Mathematica; Transaction of the AMS; Journal of Harmonic Analysis and Applications; American Journal of Mathematics. NSF-proposals;

Departmental Activities

- ★ Member, Subcommittee for Promotion and Tenure, since May 2006.–September 2005
- ★ Director for Graduate Studies, January 2001 –September 2005.
- ★ Chair, Graduate committee, January 2001 –September 2005.
- ★ Member, Undergraduate Committee of the Department of Mathematics, Fall 1999 – Fall 2001.
- ★ Member, Ad-hoc Committee to evaluate the Undergraduate Program, Spring/Summer 2000.
- ★ Member, Executive Committee of the Department of Mathematics, since January 1997 – December 1999.
- ★ Member, Subcommittee for Promotion and Tenure, September, 1996 – December, 1996.
- ★ Organizer of the Linear Analysis Seminar, January 1996 – December 2000.
- ★ Member, Committee to develop Program for the Master of Science in Mathematics with Business/Industrial Concentration, 1994-1995
- ★ Member, Committee for the Qualifyings in Real Analysis, January 1994– June 1996.

TEACHING (LAST 10 YEARS)

Chair of the following Ph.D. committees

- ★ Daniel Freeman
- ★ Aaron Bailey

Chair of the following Master's committees

- ★ Georg Reiser (May 1997; co-chairing with Bruce Lowe)
- ★ Ed Glidwell(August 1998, Mathematics in Finance)
- ★ Jochen Sutor (August 1998, Mathematics in Finance)
- ★ Sven Gronenberg (August 1998, Mathematics in Finance)
- ★ Youngdeug Ko (May 2003, Traditional Track)
- ★ Maria Baiamonte(May 2002, Traditional Track)
- ★ Roel Morales(May 2003, Traditional Track).

Course Development

- ★ Development of a graduate course in Mathematics of Finance; Mathematics of contingent claims (Option Pricing); this course is part of the department's master's program "Finance and Mathematics".

Classes

A) Graduate Classes

- * Math 663, Seminar in Analysis, "Logic and Set Theory in Analysis" , Fall, 2006
- * Math 655, Functional Analysis , Fall, 2003
- * Math 663, Introduction to Real Analysis, Fall, 2002
- * Math 663, Problems in Mathematics, Summer 2002
- * Math 608, Real Variables, II , Spring, 2002
- * Math 607, Real Variables, I, Fall, 2001
- * Math 628, Mathematics in Finance, Spring 2001
- * Math628, Mathematics in Finance, Spring 2000
- * Math619, Applied Probability Theory, Fall 1999
- * Math628, Mathematics in Finance, Spring 1998
- * Math628, Mathematics in Finance, Fall 1996
- * Math602, Partial Differential Equations, Spring 1996
- * Math606, Probability Theory, Fall 1995
- * Math608, Real Variables II, Spring 1995
- * Math607, Real Variables I, Fall 1994.

B) Undergraduate Classes

- * Math151, Calculus (two classes) Fall 2005
- * Math 446, Introduction to Real Analysis, II , Spring 2004
- * Math 447, Introduction to Real Analysis, I, Fall 2003
- * Math407, Complex Variables, Spring 2003
- * Math409, Advanced Calculus, Fall 2000
- * Math222, Linear Algebra, Fall 1999
- * Math151, Calculus I for students in engineering, Fall 1998
- * Math411, Probability, Fall 1997
- * Math308, Diff. equation, Fall 1997
- * Math171, Calculus I for students science, Spring 1997
- * Math152 Calculus II for students in engineering, Fall 1996
- * Math151, Calculus I for students in engineering, Fall 1995
- * Math141, Mathematics for students in business, Spring 1995
- * Math151, Calculus I for students in engineering, Fall 1994

Post - Docs mentored

- ★ George Androulakis (obtained tenure track position in University of South Carolina)
- ★ Andras Zsak (obtained visiting position in University of Cambridge, UK)
- ★ Anisca Rasvan (obtained tenure track position in Lakehead University, Thunder Bay, Ontario, Canada)