

## Curriculum Vitae of Timur Oikhberg

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### EMPLOYMENT:

Dec. 2006. - present Visiting Scholar/Lecturer, University of Illinois, Urbana-Champaign.  
2005-present Associate Professor, UC Irvine.  
2001-2005 Assistant Professor, UC Irvine.  
1998-2001 Instructor, University of Texas at Austin.

Ph.D.: Texas A&M University, 1998.

FIELDS OF INTEREST: *Functional analysis:* operator spaces, Banach spaces,  $C^*$ -algebras, operator theory,  $JB^*$ -triples, convex geometry, wavelets.

### RECENT TALKS:

- “Bernstein Lethargy: new developments”, at Workshop in Linear Analysis and Probability, Texas A&M University, August 11, 2009.
- “How many subspaces can an operator space have?”, at South California Functional Analysis Seminar, Claremont-McCenna College, Claremont, CA, April 18, 2009.
- “An operator space with “few” subspaces”, at AMS Sectional Meeting (Urbana, IL), March 28, 2009.
- “Norms of certain Schur multipliers, and applications”, at Claremont-McCenna College, Claremont, CA, March 5, 2009.
- “The complexity of the complete isomorphism relation between subspaces of an operator space”, at Summer Informal Functional Analysis Seminar at Texas A&M University, August 9, 2008.
- “Subspaces of the direct sum of row and column operator spaces”, at IMST 2008, Memphis, TN, May 18, 2008.
- “Representations of Banach algebras as algebras of completely bounded maps”, at Workshop on Operator Spaces and Quantum Groups, Fields Institute, Toronto, Canada, December 11, 2007.
- “Products of projections in operator algebras”, at Eastern Illinois University, Charleston, IL, October 5, 2007.

- “Products of projections in von Neumann algebras”, at Wabash Mini-Conference, Indianapolis, IN, September 8, 2007.
- “Hyperreflexivity with respect to operator ideals and representations of Banach algebras as algebras of completely bounded maps”, at Workshop in Linear Analysis and Probability, Texas A&M University, August 8, 2007.
- “Representations of Banach algebras as algebras of completely bounded maps”, University of Illinois at Urbana-Champaign, April 13, 2007.
- “Hyperreflexivity with respect to operator ideals, with applications to ‘pathological’ operator spaces”, University of Illinois at Urbana-Champaign, February 15, 2007.
- “The complete isomorphism class of an operator space”, at Workshop in Linear Analysis and Probability, Texas A&M University, August 1, 2006.
- “Hyperreflexivity with respect to operator ideals”, at the conference “Banach spaces and their applications in Analysis”, Oxford, OH, May 27, 2006.
- “Hyperreflexivity and operator ideals”, at AMS Sectional Meeting (Orlando, FL), April 1, 2006.

PUBLICATIONS:

1. T. Oikhberg, *Covering numbers of sets of analytic functions*, M.Sc. Thesis, Tel-Aviv University, Israel, 1993.
2. T. Oikhberg, *Absolute widths of some embeddings*, J. Approximation Theory 81 (1995), 120 – 126.
3. T. Oikhberg, *Geometry of Operator Spaces and Products of Orthogonal Projections*, Ph.D. dissertation, Texas A&M University, 1998.
4. T. Oikhberg, G. Pisier, *The “maximal” tensor products of operator spaces*, Proc. Edinburgh Math. Soc. 42 (1999), 267 – 284.
5. T. Oikhberg, *Products of orthogonal projections*, Proc. Amer. Math. Soc. 127 (1999), 3659–3669.
6. T. Oikhberg, *Completely complemented subspace problem*, J. Operator Theory 43 (2000), 375–387.
7. T. Oikhberg, H. Rosenthal, *Certain extension properties for the space of compact operators*, J. Funct. Anal. 179 (2001), 251–308.
8. T. Oikhberg, W. Johnson, *Separable lifting property and extensions of local reflexivity*, Illinois J. Math. 45 (2001), 123–137.

9. T. Oikhberg, *Direct sums of operator spaces*, J. London Math. Soc. 64 (2001), 144–160.
10. T. Oikhberg, *The Daugavet property of  $C^*$ -algebras and non-commutative  $L_p$ -spaces*, Positivity 6 (2002), 59–73.
11. T. Oikhberg, H. Rosenthal, E. Stormer, *A predual characterization of semifinite von Neumann algebras*, Advances in quantum dynamics (Proceedings of AMS-IMS-SIAM Joint Summer Research Conference, Mt. Holyoke, 2002), 243–245, Contemp. Math., 335, Amer. Math. Soc., Providence, RI, 2003.
12. T. Oikhberg, *Subspaces of maximal operator spaces*, Integral Equations and Operator Theory 48 (2004), 81–102.
13. T. Oikhberg, E. Ricard, *Operator spaces with few completely bounded maps*, Math. Ann. 328 (2004), 229–259.
14. T. Oikhberg, M. Martin, *An alternative Daugavet property*, J. Math. Anal. Appl. 294 (2004), 158–180.
15. T. Oikhberg, V. Troitsky, *A theorem of Krein revisited*, Rocky Mountain J. Math. 35 (2005), 195–210.
16. T. Oikhberg, *Operator spaces with prescribed sets of completely bounded maps*, J. Funct. Anal. 224 (2005), 296–315.
17. T. Oikhberg, *Spaces of operators, the  $\psi$ -Daugavet property, and numerical indices*, Positivity 9 (2005), 607–623.
18. T. Oikhberg, *Operator spaces with complete bases, lacking completely unconditional bases*, Houston J. Math. 32 (2006), 551–561.
19. T. Oikhberg, *The non-commutative Gurarii space*, Arch. Math. 86 (2006), 356–364.
20. T. Oikhberg, M. Junge, *Homogeneous Hilbertian subspaces of  $L_p$* , Indiana Univ. Math. J. 56 (2007), 733–765.
21. T. Oikhberg, *Hyperreflexivity and operator ideals*, J. Funct. Anal. 246 (2007), 242–280.
22. T. Oikhberg, *The complete isomorphism class of an operator space*, Proc. Amer. Math. Soc. 135 (2007), 3943–3948.
23. T. Oikhberg, H. Rosenthal, *A metric characterization of normed linear spaces*, Rocky Mountain J. Math. 37 (2007), 597–608.
24. T. Oikhberg, A. Arias, *Embeddings of finite dimensional operator spaces into the second dual*, Studia Math. 181 (2007), 181–198.
25. T. Oikhberg, *Some properties related to the Daugavet Property*, in Banach spaces and their applications in analysis, 399–401, Walter de Gruyter, Berlin, 2007.

26. T. Oikhberg, *The operator shift space*, Proc. Edinburgh Math. Soc. (2) 51 (2008), 229–263.
27. T. Oikhberg, *Products of projections in von Neumann algebras*, Lin. Alg. Appl. 429 (2008), 759–775.
28. T. Oikhberg, M. Junge, N. Nielsen, *Rosenthal operator spaces*, Studia Math. 188 (2008), 17–55.
29. T. Oikhberg, *Finite representability of homogeneous Hilbertian operator spaces in spaces with few completely bounded maps*, J. Operator Theory 61 (2009), 3–18.
30. T. Oikhberg, *Representations of Banach algebras as algebras of completely bounded maps*, Math. Scand. 105 (2009), 99–120.
31. T. Oikhberg, *Restricted Schur multipliers and their applications*, Proc. Amer. Math. Soc., to appear.
32. T. Oikhberg, *Completely bounded and ideal norms of multiplication operators and Schur multipliers*, Integral Equations and Operator Theory, to appear.

Most recent papers and preprints are available at  
[www.math.uci.edu/~toikhber/RESE/research.html](http://www.math.uci.edu/~toikhber/RESE/research.html).

SERVICE:

- Supervision of graduate students: member of the dissertation committee for Chris Barney; member of the advancement committee for Kyriakos Kypriotakis (both at UCI). Member of the dissertation committee for Jiaosheng Jiang (UT Austin).
- Organized (together with M. Junge) a special session in “Operator Spaces, Operator Algebras, and Applications” during the AMS meeting in Irvine, CA (November 10 - 11, 2001).
- Referee for: *Bulletin of the Irish Mathematical Society*, *Canadian Mathematical Bulletin*, *Houston Journal of Mathematics*, *Illinois Journal of Mathematics*, *Indiana University Mathematics Journal*, *International Journal of Mathematics and Mathematical Sciences*, *Israel Journal of Mathematics*, *Journal of Functional Analysis*, *Journal of Mathematical Analysis and Applications*, *Mathematical Proceedings of Cambridge Philosophical Society*, *Mathematische Annalen*, *Mathematische Nachrichten*, *Proceedings of Edinburgh Mathematical Society*, *Proceedings of the American Mathematical Society*, *Rocky Mountain Journal of Mathematics*, *Studia Mathematica*, *Taiwanese Journal of Mathematics*, *Transactions of the American Mathematical Society*.
- Reviewer for: *Mathematical Reviews*, *Zentralblatt MATH*.
- Member of several departmental and campus-wide committees at UCI.

NSF SUPPORT: DMS-9970369, 1999 – 2002; DMS-0200714, 2002 – 2005; DMS-0500957, 2005 – 2008.