

Vita 2008

Mark Leckband
Associate Professor
Department of Mathematics
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EDUCATION

Doctorate of Philosophy in Mathematics, Purdue University, Indiana, December 1981.
Dissertation: "An integral inequality with applications". Advisor: Professor C. J. Neugebauer,
Department of Mathematics, Purdue University, Indiana.

Masters of Science in Mathematics, Purdue University, Indiana, August 1978.

Bachelor of Science in Mathematics and Physics, Portland State University, Oregon, May 1975.

POSITIONS

1988-Present: Associate Professor, Department of Mathematics, Florida International University,
Miami, Florida.

1986-1988: Assistant Professor, Department of Mathematics, Florida International University,
Miami, Florida.

1984-1986: Lecturer, Department of Mathematics, Rutgers University, New Brunswick, New
Jersey.

1982-1984: Assistant Professor, Department of Mathematics, Florida International University,
Miami, Florida.

REFEREED JOURNAL PUBLICATIONS

Leckband, Mark, "Moser's inequality on the ball B^n for functions with mean value zero", *Comm. Pure Appl. Math.* 58 (2005), no. 6, 789-798

Hudson, S.; Leckband, M., "Extremals for Moser inequalities", *Arch. Ration. Mech. Anal.* 171 (2004), no. 1, 43-54

Hudson, S.; Leckband, M., "Extremals for Moser-Trudinger type exponential inequalities", *Pac. J. Math.*, 206, 113-128 (2002)

Hudson, S.; Leckband, M., "A sharp exponential inequality for Lorentz-Sobolev spaces on bounded domains", *Proceedings of the American Mathematical Society*, Vol. 127, No.7, February 1999, pp 2029-2033.

Hudson, S.; Leckband, M., "Generalized Hardy's inequality for fractal measures on \mathbb{R}^1 ", Journal of Functional Analysis, Vol. 108, August 1992, pp. 133-160.

Leckband, M., "A note on exponential integrability and pointwise estimates of Littlewood-Paley functions", Proceedings of the American Mathematical Society, Vol. 109, No. 1, May 1990, pp. 185-194.

Leckband, M., "On the local boundedness of singular integral operators", Transactions of the American Mathematical Society, Vol. 308, No. 1 (1988), pp. 39-56.

Leckband, M., "Two-weight mixed norm inequalities for maximal operators and extrapolation results for the fractional maximal operator", Studia Mathematica, T. 87 (1987), pp. 167-180.

Leckband, M., "A note on the spherical maximal operator for radial functions", Proceedings of the American Mathematical Society, Vol. 100, No. 4 (1987), pp. 635-640.

Leckband, M., "Structure results on the maximal Hilbert transform and two-weight norm inequalities", Indiana University Mathematics Journal, Vol. 34, No. 2 (1985), pp. 259-275.

Leckband, M., "An integral inequality with applications", Transactions of the American Mathematical Society, Vol. 283, No. 1 (1984), pp. 157-168.

Leckband, M., "A note on maximal operators and reversible weak-type inequalities", Proceedings of the American Mathematical Society, Vol. 92, No. 1 (1984), pp. 19-26.

Leckband, M. A.; Neugebauer, C. J., "Weighted iterates and variants of the Hardy-Littlewood maximal operator", Transactions of the American Mathematical Society, Vol. 279, No. 2 (1983), pp. 51-61.

Leckband, M. A.; Neugebauer, C. J., "A general maximal operator and the A_p -condition", Transactions of the American Mathematical Society, Vol. 275, No. 2 (1983), pp. 821-831.

REFEREE

Served as a referee for a paper submitted to the mathematics journal: Journal of Mathematical Analysis and Applications in Fall 2000.

Served as a referee for a paper submitted to the mathematics journal: Applied Mathematics Letters in Summer 2000.

Served as a referee for a paper submitted to the mathematics journal: Mathematische Nachrichten in Spring 1995.

CONFERENCE PRESENTATIONS

“Rearrangement on the unit ball for functions with mean value zero with applications to Moser and Sobolev inequalities.”, Conference on Differential and Difference Equations and Applications, Florida Institute of Technology, August 2005.

“Extremals for Moser inequalities on S^2 and S^3 ”, Southeastern Analysis Meeting at University of Virginia, March 2000.

"Hardy's inequality and fractal measures", 865th Meeting of the American Mathematical Society at the University of South Florida, Tampa, March 22-23, 1991.

"Weighted iterates and variants of the Hardy-Littlewood maximal operator", Midwestern Harmonic Analysis Conference, Indiana University, Spring Semester 1982.

"A general maximal operator and the A_p -condition", 88th Annual Meeting of the American Mathematical Society in Cincinnati, January 1981.

GRANTS

Title: Educational innovations in Science, Engineering and Mathematics...
Agency: Department of Defense/Office of Naval Research
Amount: \$41,600 in Spring 2000

Title: Educational innovations in Science, Engineering and Mathematics...
Agency: Department of Defense/Office of Naval Research
Amount: \$14,000 in August 1999