

Arthur D. Szlam

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RESEARCH INTERESTS	Harmonic Analysis on graphs and manifolds, and applications to signal processing and machine learning.	
EDUCATION	Yale University , New Haven, Connecticut USA Ph.D. (expected graduation date: summer 2006) Dissertation Topic: "Multiscale Analysis on Graphs and Applications" Advisor: Ronald R. Coifman Emory University , Atlanta, Georgia USA M.S., Mathematics, May 2000 Thesis Topic: "Intersection Representations of Hypergraphs" Advisors: Vojtěch Rödl and Dwight Duffus Emory University , Atlanta, Georgia USA B.S., Mathematics, May, 2000	
TEACHING EXPERIENCE	Yale University , New Haven, Connecticut USA <i>Instructor</i> Calculus of One variable I	fall, 2005
	<i>Instructor</i> Calculus of One variable II	spring, 2005
	<i>Instructor</i> Calculus of Several Variables	spring, 2004
	<i>Instructor</i> Calculus of One variable II	spring, 2003
	<i>Teaching Assistant</i> Linear Algebra	spring, 2002
PUBLICATIONS	A. Szlam, M. Maggioni, R. R. Coifman. Feature Based Anisotropic Diffusions on Graphs and Applications. in preparation. M. Maggioni, R. R. Coifman, J. Bremer, and A. Szlam. Diffusion wavelets packets. submitted to Applied and Computational Harmonic Analysis. M. Maggioni, J. Bremer, R. R. Coifman, and A. Szlam. Biorthogonal diffusion wavelets for multiscale analysis on manifolds and graphs. SPIE wavelets XI, 2005.	

A. Szlam, M. Maggioni, R. R. Coifman, and J. Bremer. Diffusion-driven multiscale analysis on manifolds and graphs: top-down and bottom-up constructions. *SPIE wavelets XI*, 2005.

D. G. Hoffman, P. D. Johnson, Jr., and A. D. Szlam. A new lemma in Ramsey theory. *J. Combin. Math. Combin. Comput.*, 38:123–128, 2001.

P. D. Johnson, Jr. and A. D. Szlam. A new connection between two kinds of Euclidean coloring problems. *Geombinatorics*, 10(4):172–178, 2001.

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