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Research Interests

- Interplay between harmonic analysis, function spaces and operator theory.
- Harmonic analysis and wavelets.

Education

- (2009) Ph.D. in Mathematics from *Washington University in Saint Louis*.
- (2000) Bachelor's of Science in Mathematics and Bachelor's of Arts in Computer Science from *Brown University*.

Awards/Distinctions

- (2003-2007) Graduate Assistance in Areas of National Need Fellowship recipient.
- (2006) Dean's Award for Teaching Excellence from *Washington University in Saint Louis*.
- (2005) Guido Weiss Teaching and Service Award from *Washington University in Saint Louis Department of Mathematics*.

Publications

- "Singular Bilinear Fourier Multipliers and a Class of Hankel Operators" - in preparation.
- "A John-Nirenberg Theorem for Generalized Dirichlet Spaces" - in preparation.
- Solutions Manual for "Real Analysis and Foundations" by Steven Krantz.

Work Experience

- (2000-2003) Assistant staff at MIT Lincoln Laboratories.
- (1999) Summer intern for JP Morgan.
- (1997) Summer intern as a technology consultant for Chase Manhattan Bank.

Conferences

- (May 2008) Function spaces and operator theory: Conference in the Honor of Richard Rochberg's 65th Birthday, Washington University in Saint Louis.
- (March 2008) 24th Southeastern Analysis Meeting, Vanderbilt University.
- (January 2008) Workshop on Recent Advances in Operator Theory and Function Theory, University of Toronto's Fields Institute.
- (October 2006) Special Session on Harmonic Analysis, AMS Regional Conference, Salt Lake City, Utah.
- (May 2005) Conference in honor of Al Baernstein's 65th birthday, Washington University, St. Louis, Missouri.

Talks

- *Bilinear Singular Fourier Multipliers, Truncations of Hankel Operators and the Trace Class*, Analysis Seminar at Washington University in St Louis.
- *Lacey and Thiele's Proof of Carleson's Theorem in the Walsh model*, Analysis Seminar at Washington University in St Louis.
- *Pointwise Convergence Theorems for Dirichlet series*, Analysis Seminar at Washington University in St Louis.
- *Stopping Time Arguments, John-Nirenberg Type Theorems and Gambling*, Analysis Seminar at Washington University in St Louis.
- *Maximal Operators and Convergence Theorems*, Operator Theory Seminar at Washington University in St Louis.
- *Wavelet Decompositions and Filter Banks*, Operator Theory Seminar at Washington University in St Louis.

Teaching Experience

- Instructor: Matrix Algebra.
- Teaching Assistant for Calculus 2: Fall 2005, Fall 2006 Spring 2007.
- Teaching Assistant for Business Calculus 2: Fall 2004, Spring 2005, Fall 2007, Spring 2008.

Skills

- Programming experience with C++, C, Perl, Java, Matlab, Lisp, latex and OpenGL.

Leadership Activities

- Co-organized the Graduate Oral Talks Seminar at Washington University in St Louis Department of Mathematics.
- Washington University in St Louis Graduate Council Representative for the Department of Mathematics.
- Graduate Student recruiter for Washington University in St Louis Department of Mathematics.

Other Activities

- Rock climbing, biking, backpacking, piano.