

David C. Seal

CONTACT INFORMATION	Department of Mathematics University of Wisconsin-Madison 480 Lincoln Drive Madison, WI 53706-1388	<i>Voice:</i> (608) 263-7939 <i>Fax:</i> (608) 263-8891 <i>E-mail:</i> seal@math.wisc.edu <i>Web:</i> http://www.math.wisc.edu/~seal/
EDUCATION	PhD - Mathematics, University of Wisconsin-Madison Advisor: James Rossmannith Minor: Computer Science MA - Mathematics, University of Wisconsin-Madison HBS - Mathematics, University of Utah Advisor: Davar Khoshnevisan Minor: Physics	2006 – present Spring 2009 Spring 2006
RESEARCH AREA	Numerical Analysis, Semi-Lagrangian Discontinuous Galerkin Methods	
PROFESSIONAL AFFILIATIONS	SIAM: Society for Industrial and Applied Mathematics American Mathematical Society Golden Key Honor Society Pi Mu Epsilon Honor Society Sigma Pi Sigma Honor Society	member, 2009 – present member, 2006 – present
CONFERENCES ATTENDED	<i>Mathematical Modeling in Industry XIII - A Workshop for Graduate Students</i> IMA, University of Minnesota, Minneapolis, MN <i>Computational Kinetic Transport and Hybrid Methods</i> IPAM, UCLA, Los Angeles, CA <i>Midwest Probability Colloquium</i> Northwestern University, Evanston, IL	Summer 2009 Spring 2009 Fall 2007
RESEARCH EXPERIENCE	Senior Honor's thesis: <i>An Introduction to Fractals and Hausdorff Measures</i> University of Utah, Advisor: Davar Kshoshnevisan REU Physics Project: <i>Optical Beam Profile Monitor for LENS Ion Source</i> Indiana University Cyclotron Facility (IUCF), Advisor: V. Derenchuk, K. Solberg REU Math Project University of Utah, Advisor: Nat Smale	Spring 2006 Summer 2005 Spring 2005
GRADUATE COURSEWORK	Computational Math I and II Applied Math I and II, Partial Differential Equations Real Analysis, Functional Analysis, Complex Analysis Probability, Topics in Harmonic Analysis Algebra I and II	(Math 714, 715) (Math 703, 704, 819) (Math 721, 725, 722) (Math 831, 823) (Math 741, 742)

COMPUTER SCIENCE COURSEWORK	Data Structures, Linear Programming Mathematical Techniques for the Analysis of Algorithms Algorithms (To be Taken)	(CS 367, 525) (CS 809) (CS 577)
PROGRAMMING LANGUAGES AND PLATFORMS	Linux, Mac OS X, Windows, C++, C, Matlab, Java, SubVersion, IDL, L ^A T _E X.	
TEACHING EXPERIENCE	<p>Teaching Assistant, University of Wisconsin-Madison Business Calculus, 1 semester Calculus II, 2 semesters Linear Algebra and Differential Equations, 1 semester Ordinary Differential Equations, 1 semester</p> <p>Instructor, University of Wisconsin-Madison Intermediate Algebra, 1 semester College Algebra, 1 semester</p> <p>Supplemental Instructor, University of Utah Intermediate Algebra, 1 semester College Algebra, 1 semester</p>	<p>5 semesters</p> <p>2 semesters</p> <p>2 semesters</p>
REFERENCES	James Rossmannith Department of Mathematics University of Wisconsin-Madison (608) 262-3852 rossmani@math.wisc.edu	Julie Mitchell Department of Mathematics University of Wisconsin-Madison (608) 263-6819 mitchell@math.wisc.edu