

Rice University - CAAM MS134 - 6100 Main St. - Houston, TX 77005
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Education

Rice University
 Doctor of Philosophy in Computational and Applied Mathematics (CAAM) May 2009
 Topic: Historical Development of the BFGS Secant Method and Its Characterization Properties
 Advisor: Richard A. Tapia
 Master of Arts in CAAM May 2007
 Master of Arts in Teaching Mathematics May 2002
 Bachelor of Arts in Art and Art History May 1992

Honors and Achievements

Rice University
 Graduate Student Association Service Award May 2004
 Convocation speaker May 2003
 Louis Sudler Prize in the Arts May 1992
 President's Honor Roll
 Art Institute of Houston (AIH)
 Selected by faculty and staff as "Faculty of the Quarter" Spring 1999
 Selected by student body as "Outstanding Instructor" Spring 1999, Fall 1998, Spring 1998
 Fall 1997, Winter 1996, Fall 1995

Presentations and Publications

Origin and Extensions of the Secant Method and Characterizations of the BFGS Secant Method
 Rice University CAAM Department Colloquium August 2009
 University of Houston Mathematics Department : Scientific Computing Seminar October 2009
Did the Babylonians know the Secant Method in 1-D?
 Rice University Mathematics Leadership Institute June 2008
 National Council of Teachers of Mathematics Annual Meeting April 2008
Historical Development of the Secant Method in 1-D
 Mathematical Association of America Annual Summer Meeting: MathFest 2007 August 2007
 CAAM Department Seminar February 2007
 SIAM Texas Applied Mathematics Meeting for Students February 2007
Historical Development of the $(n + 1)$ -point Secant Method: From the Babylonians to Wolfe
 Institute for Mathematics and Its Applications Special Workshop: Blackwell Tapia Conference November 2006
Historical Development of the BFGS Secant Method
 Alliances for Graduate Education and the Professoriate (AGEP) Program August 2005

<i>Algorithms the TI-83 series uses to approximate roots, solve equations and evaluate trigonometric functions</i>	Texas Instruments International Conference	March 2004
<i>Integrative Model of Synaptic Plasticity Involving the CREB Gene Cascade in a Two-Cell Circuit</i>	CAAM Department Graduate Seminar	November 2003
<i>A Wavelet Approach to Segmenting Handwriting</i>	AGEP Program	August 2003
	Park City Mathematics Institute	July 2003
<i>Get In Step With Success: Ways to Excel as a Student</i>	AIH Welcome Week	April 2000
<i>Creating a Partnership for Student Success and Retention</i>	AIH 12th-Week Administrative Meetings	September 1999
<i>Academic Advising Center Bigger and Better Than Ever</i>	AIH The News	Summer 1999
<i>College Mathematics, Custom Edition, Excerpts from: Beginning Algebra, Third Edition.</i> Tobey and Jeffrey Slater		1996

Professional Education Experience

Teaching Assistant

Rice University	CAAM 335: Matrix Analysis	Spring 2004
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Course Instructor

Rice University	Project GRAD TASP preparation	Summer 2003
	Rice University Summer School for Middle and High School Students	Summer 2001

Episcopal High School	Algebra II, Honors Algebra II	August 2001 – June 2002
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Art Institute of Houston	College Bound	Spring 2000
	Fundamentals of Mathematics	1997 – 2000
	College Mathematics	1995 – 1997

Math Tutor

Houston Scholars Program	Statistics, Calculus, Pre Calculus, Algebra II, Geometry, Algebra I	January 2003 – 2006
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Private	Pre-college and college-level mathematics	1988 – present
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Standardized Test Preparation	TAAS, PSAT, SAT, ASSET, MAPS, TASP, GRE	1991 – present
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Mentor

Rice University AGEF Program	Graduate and Undergraduate Students	Summer 2004 – present
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Academic Citizenship

Rice University

Graduate Mathematicians, Applied and Computational Mathematicians and Statisticians	Spring 2008 – present
Empowering Leadership Alliance	Fall 2007 – present
Presidential Inaugural Committee	March 2004 – April 2005
Alliances for Graduate Education and the Professoriate	
Mentor and panel speaker	Fall 2004 – present
Brown Bag Luncheon Committee	Summer 2003
Society for Industrial and Applied Mathematics	Fall 2002 – present
Alumni Fund Board	February 2004 – April 2005
KTRU and KTRU Friendly Committees	April 2003 – April 2005
CAAM Department Graduate Seminar Committee	Fall 2003 – Fall 2004
AGEP Brown Bag Luncheon Committee	Summer 2003
Graduate Student Association	
President	April 2004 – April 2005
Internal Vice President	April 2003 – April 2004
Awards Committee Chair	Spring 2004, Spring 2003
CAAM Department representative	Fall 2002 – April 2003
Education Department representative	Fall 2000 – May 2002

Episcopal High School

Faculty sponsor of Mu Alpha Theta, Math Club	Fall 2001– Summer 2002
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Art Institute of Houston

Faculty Development Committee	March, 2000 – 2001
Accelerated Learning Specialist	March 2000 – July 2001
Academic Advisor	1998 – 2000
Open House Facilitator	February 2000
Start-Up Committee	2000
Faculty Worklife Task Force	1998 – 1999
Orientation Committee Secretary	1999 – 2000
Technology Committee	1998 – 2000
Faculty sponsor of Student Flag Football	Winter 1999

Houston Independent School District

Science Fair Judge	Winter 1999
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River Oaks Baptist School

Science Fair Judge	Fall 2006, Fall 2005
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References

Available upon request.