

Dr. Armando Arciniega
Associate Professor of Instruction
The University of Texas at San Antonio

Department of Mathematics
College of Sciences
The University of Texas at San Antonio
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San Antonio, TX 78249

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Education

Doctor of Philosophy, Mathematics, Texas Tech University
Dissertation Title: Extrapolation of Difference Methods in Option Valuation, Rounding Error in Numerical Solution of Stochastic Differential Equations and Shooting Methods for Stochastic Boundary-Value Problems

Master of Arts, Mathematics, Eastern New Mexico University

Bachelor of Arts, Mathematics, Eastern New Mexico University

Academic Positions

| | |
|----------------|--|
| 2021 - Present | FTT Associate Professor of Instruction, The University of Texas at San Antonio |
| 2010 - 2020 | Senior Lecturer, The University of Texas at San Antonio |
| 2004 - 2010 | Assistant Professor, The University of Texas at San Antonio |

Administrative Assignments

| | |
|----------------|--|
| 2022 - Present | FTT Departmental Review Committee, The University of Texas at San Antonio |
| 2021 - Present | Scholarship Committee, The University of Texas at San Antonio |
| 2020 - Present | Calculus I Course Coordinator, The University of Texas at San Antonio |
| 2020 | Chair: NTT Departmental Review Committee, The University of Texas at San Antonio |

2012 - 2016 Teaching Assistants' Supervisor, The University of Texas at San Antonio

Research Interests

Numerical Analysis
Applied Mathematics
Stochastic Differential Equations
Mathematical Finance
Mathematical Biology

SCHOLARSHIP/RESEARCH/CREATIVE WORKS

Intellectual Contributions

Journal Article, Academic Journal - Peer-Reviewed/Refereed

2008

4. Allen, E.J., Allen, L.J.S., Arciniega, A., Greenwood, P.E. (2008). Construction of Equivalent Stochastic Differential Equation Models. *Stoch. Anal. Appl.*, 26 (2), 274-297.

2007

3. Arciniega, A. (2007). Shooting Methods for Numerical Solution of Nonlinear Stochastic Boundary-Value Problems. *Stoch. Anal. Appl.*, 25 (1), 187-200.

2004

2. Arciniega, A., Allen, E.J. (2004). Extrapolation of Difference Methods in Option Valuation. *Applied Mathematics and Computation*, 153 (1), 165-186.
1. Arciniega, A., Allen, E.J. (2004). Shooting Methods for Numerical Solution of Stochastic Boundary-Value Problems. *Stoch. Anal. Appl.*, 22 (5), 1295-1314.

Conference Proceeding - Not Peer-Reviewed/Refereed

2010

1. Arciniega, A., Broome, M., Prieto, G. (2010). Stochastic Modeling of Parasites in Host Populations. Proceedings of The First International Conference on Mathematics and Statistics.

Presentations

Peer-Reviewed/Refereed

2013

1. Arciniega, A. (Author & Presenter), Broome, M. (Author), & Prieto, G. (Author), "Stochastic Modeling of Parasites in Host Populations," The Fourth International Conference on Mathematical Modeling and Analysis of Populations in Biological Systems, Texas Tech University, Lubbock Texas. (October 6, 2013).

Invited Talk - Peer-Reviewed/Refereed

2013

1. Arciniega, A. (Author & Presenter), Broome, M. (Author), & Gabby, p. (Author), "Stochastic Modeling of Parasites in Host Populations," 2013 Joint Mathematics Meetings, AMS, San Diego California. (January 9, 2013).

Invited Talk - Not Peer-Reviewed/Refereed

2012

17. Arciniega, A., "Stochastic Modeling of Parasites in Host Populations," 2012 Spring Southeastern Section Meeting, University of South Florida, Tampa, FL. (March 2012).
16. Arciniega, A., "Shooting Methods for Numerical Solution of Linear and Nonlinear Stochastic Boundary Value Problems," 2012 Joint Mathematics Meetings, Boston, MA. (January 2012).
15. Arciniega, A., "Shooting Methods for Numerical Solution of Linear and Nonlinear Stochastic Boundary Value Problems," 2012 Joint Mathematics Meetings, Boston, MA. (January 2012).

2011

14. Arciniega, A., "Stochastic Modeling of Parasites in Host Populations," SPA OAXACA 2011, 35th Conference on Stochastic Processes and Their Applications, OAXACA, Mexico. (June 2011).
13. Arciniega, A., "Shooting Methods for Numerical Solution of Linear and Nonlinear Stochastic Boundary Value Problems," Symposium in Honor of Professor Onesimo Hernandez-Lerma: ONESIMO's FEST, San Luis Potosi, Mexico. (March 2011).

2010

12. Arciniega, A., "Shooting Methods for Numerical Solution of Linear and Nonlinear Stochastic Boundary Value Problems," SPA OSAKA 2010, 34th Conference on Stochastic Processes and Their Applications, Osaka, Japan. (September 2010).
11. Arciniega, A., "Stochastic Modeling of Parasites in Host Populations," 2010 SIAM Annual Meeting, Workshop Celebrating Diversity (SIAM-WCD), The David Lawrence Convention Center, Pittsburgh, Pennsylvania, USA. (July 2010).
10. Arciniega, A., "Stochastic Modeling of Parasites in Host Populations," The First International Conference on Mathematics and Statistics (AUS-ICMS'10), The American University of Sharjah, Sharjah, UAE. (March 2010).

2009

9. Arciniega, A., "Shooting Methods for Numerical Solution of Linear and Nonlinear Stochastic Boundary-Value Problems," I Reunión Conjunta Sociedad Matemática Mexicana-Real Sociedad Matemática Española, Oaxaca, Oaxaca, Mexico. (July 2009).
8. Arciniega, A., "Shooting Methods for Numerical Solution of Linear and Nonlinear Stochastic Boundary-Value Problems," XIX Semana Regional de Investigación y Docencia en Matemáticas, Universidad de Sonora, Hermosillo, Sonora. (March 2009).

2008

7. Arciniega, A., "Shooting Methods in Numerical Solution of Linear and Nonlinear Stochastic Boundary-Value Problems," World Congress of Nonlinear Analysts, Orlando, Florida. (July 2008).
6. Arciniega, A., "Shooting Methods for Numerical Solution of Linear and Nonlinear Stochastic Boundary-Value Problems," XVI International Symposium on Mathematical Methods Applied to Sciences, University of Costa Rica, San Jose. (February 2008).

2007

5. Arciniega, A., "Shooting Methods for Numerical Solution of Nonlinear Stochastic Boundary-Value Problems," 2007 Spring Southeastern Section Meeting, Davidson, NC. (March 2007).

2006

4. Arciniega, A., "Shooting Methods for Numerical Solution of Nonlinear Stochastic Boundary-Value Problems," 3rd International Conference on Neural, Parallel and Scientific Computations, Morehouse College, IFNA, Atlanta, GA. (August 2006).
3. Arciniega, A., "Extrapolation of Difference Methods in Option Valuation," The International Conference of Hybrid Systems and Applications,, The University of Louisiana at Lafayette, LA. (May 2006).
2. Arciniega, A., "Shooting Methods for Numerical Solution of Stochastic Boundary-Value Problems," XV International Symposium on Mathematical Methods Applied to Sciences, University of Costa Rica, San Jose. (February 2006).

2005

1. Arciniega, A., "Rounding Error in Numerical Solution of Stochastic Differential Equations," 2005 Spring Central Section Meeting, Texas Tech University. (April 2005).

TEACHING

Teaching Interests

Mathematics

Courses Taught

Graduate

Spring 2017

MAT 6953 Independent Study 001

Fall 2016

MAT 6953 Independent Study 003

MAT 6973 Special Topics: Stochastic Calculus

Spring 2016

MAT 6953 Independent Study

Fall 2015

MAT 6953 Independent Study 001

MAT 6973 Special Topics: Stochastic Calculus 004

Fall 2014

MAT 6953 Independent Study 002

Spring 2014

MAT 6953 Independent Study 001

MAT 6973 Special Topics: Stochastic Calculus 003

Spring 2007

MAT 5603.001 Graduate Numerical Analysis(January 2007 - May 2007)

Undergraduate

Spring 2022

MAT 1214 Calculus I 004

MAT 1214 Calculus I 006

MAT 1214 Calculus I 007

Fall 2021

MAT 1214 Calculus I 005

MAT 1214 Calculus I 010

MAT 1214 Calculus I 014

Summer 2021

MAT 1214 Calculus I 01E

Spring 2021

MAT 1214 Calculus I 008

MAT 1224 Calculus II 006

MAT 1224 Calculus II 007

Fall 2020

MAT 1214 Calculus I 005

MAT 1214 Calculus I 010

MAT 1214 Calculus I 013

Summer 2020

MAT 1224 Calculus II 01T

MAT 1224 Calculus II 02T

Spring 2020

MAT 1214 Calculus I 003

MAT 1214 Calculus I 005

MAST 1214 Calculus I 006

Fall 2019

MAT 1224 Calculus II 002

MAT 1224 Calculus II 003

MAT 1224 Calculus II 006

Summer 2019

MAT 1224 Calculus II 01T

MAT 1224 Calculus II 02T

MAT 4913 Independent Study

Spring 2019

MAT 1224 Calculus II 002

MAT 1224 Calculus II 004

MAT 1224 Calculus II 007

Fall 2018

MAT 1073 Algebra for Scientists and Engineers 006

MAT 1073 Algebra for Scientists and Engineers 704

MAT 1224 Calculus II 004

MAT 1224 Calculus II 006

MAT 1224 Calculus II 008

Summer 2018

MAT 1224 Calculus II(Q) 02T

MAT 1224 Calculus II(Q) 03T

Spring 2018

MAT 1224 Calculus II(Q) 003

MAT 1224 Calculus II(Q) 004

MAT 1224 Calculus II(Q) 007

Fall 2017

MAT 1214 Calculus I (Q) 009

MAT 1224 Calculus II (Q) 010
MAT 1224 Calculus II (Q) 011

Summer 2017

MAT 1224 Calculus II(Q) 01T
MAT 1224 Calculus II(Q) 02T

Spring 2017

MAT 1073 Algebra-Scientists and Engineers(Q)008
MAT 1214 Calculus I(Q) 004
MAT 3613 Differential Equations I(Q) 001
MAT 3623 Differential Equations II(Q) 001
MAT 6953 Independent Study 001

Fall 2016

MAT 1214 Calculus I (Q) 004
MAT 3633 Numerical Analysis(Q) 001
MAT 3653 Stochastic Calculus(Q) 001

Summer 2016

MAT 1224 Calculus II 02T
MAT 1224 Calculus II 04T

Spring 2016

MAT 1093 Precalculus 007
MAT 1214 Calculus I 003
MAT 1214 Calculus I 005
MAT 4913 Independent Study

Fall 2015

MAT 1214 Calculus I 002
MAT 3633 Numerical Analysis 001
MAT 3553 Stochastic Calculus 001
MAT 4913 Independent Study 002

Summer 2015

MAT 1214 Calculus I 03T
MAT 1224 Calculus II 04T
MAT 6953 Independent Study 01M

Spring 2015

MAT 3013 Foundations of Mathematics 002
MAT 3623 Differential Equations II 001
MAT 4913 Independent Study
MAT 4913 Independent Study 002

Fall 2014

MAT 1214 Calculus I 002
MAT 1214 Calculus I 004
MAT 3613 Differential Equations I 001
MAT 4913 Independent Study 002

Summer 2014

MAT 1093 Precalculus 03F
MAT 3623 Differential Equations II 01F

Spring 2014

MAT 3653 Stochastic Calculus 001
MAT 4913 Independent Study 002

Fall 2013

MAT 1214 Calculus I 004
MAT 3613 Differential Equations I 001
MAT 3653 Stochastic Calculus 001
MAT 4913 Independent Study

Summer 2013

MAT 1093 Precalculus 01F
MAT 1214 Calculus I 01F
MAT 4913 Independent Study

Spring 2013

MAT 1193 Calculus for the Biosciences 002
MAT 1214 Calculus I 004
MAT 4913 Independent Study

Fall 2012

MAT 1193 Calculus for the Biosciences
MAT 1214 Calculus I 004
MAT 4913 Independent Study

Summer 2012

MAT 1093 Precalculus 02F
MAT 3013 Foundations of Mathematics
MAT 4913 Independent Study

Spring 2012

MAT 3623.001 Differential Equations II (January 2012 - May 2012)
MAT 1214.005 Calculus I (January 2012 - May 2012)
MAT 1193.001 Calculus for the Biosciences (January 2012 - May 2012)

Fall 2011

MAT 4213.001 Real Analysis I (August 2011 - December 2011)
MAT 3613.001 Differential Equations I (August 2011 - December 2011)

Summer 2011

MAT 4913.00S Independent Study (July 2011 - August 2011)
MAT 1193.01F Calculus for the Biosciences (May 2011 - July 2011)
MAT 1073.01F Algebra for Scientists and Engineers (May 2011 - July 2011)

Spring 2011

MAT 4913.001 Independent Study (January 2011 - May 2011)
MAT 2214.001 Calculus III (January 2011 - May 2011)
MAT 3623.001 Differential Equations II (January 2011 - May 2011)

Fall 2010

MAT 4913.001 Independent Study (August 2010 - December 2010)
MAT 3653.001 Stochastic Calculus (August 2010 - December 2010)
MAT 4213.001 Real Analysis I (August 2010 - December 2010)
MAT 3613.001 Differential Equations I (August 2010 - December 2010)

Summer 2010

MAT 4913.00T Independent Study (June 2010 - August 2010)
MAT 2213.01F Calculus III (June 2010 - July 2010)
MAT 1093.01F Precalculus (June 2010 - July 2010)

Spring 2010

MAT 3623.001 Differential Equations II (January 2010 - May 2010)
MAT 2213.001 Calculus III (January 2010 - May 2010)

Fall 2009

MAT 3613.001 Differential Equations I (August 2009 - December 2009)
MAT 2213.001 Calculus III (August 2009 - December 2009)
MAT 1214.002 Calculus I (August 2009 - December 2009)

Summer 2009

MAT 3013.01S Foundations of Mathematics (July 2009 - August 2009)
MAT 1214.01S Calculus I (July 2009 - August 2009)
MAT 4913.01S Independent Study (July 2009 - August 2009)

Spring 2009

MAT 4913.004 Independent Study (January 2009 - May 2009)
MAT 4913.003 Independent Study (January 2009 - May 2009)
MAT 4913.001 Independent Study (January 2009 - May 2009)
MAT 3623.001 Differential Equations II (January 2009 - May 2009)
MAT 1214.018 Calculus I (January 2009 - May 2009)

Fall 2008

MAT 4223.001 Real Analysis II (August 2008 - December 2008)
MAT 2213.003 Calculus III (August 2008 - December 2008)
MAT 4913.002 Independent Study (August 2008 - December 2008)
MAT 4913.004 Independent Study (August 2008 - December 2008)

Summer 2008

MAT 3013.01S Foundations of Mathematics (July 2008 - August 2008)

MAT 2213.01S Calculus III (July 2008 - August 2008)

MAT 4913.00S Independent Study (July 2008 - August 2008)

MAT 4913.00F Independent Study (June 2008 - July 2008)

Spring 2008

MAT 3623.001 Differential Equations II (January 2008 - May 2008)

MAT 4213.001 Real Analysis I (January 2008 - May 2008)

MAT 4913.000 Independent Study (January 2008 - May 2008)

Fall 2007

MAT 1223.001 Calculus II (August 2007 - December 2007)

MAT 3613.001 Differential Equations I (August 2007 - December 2007)

Summer 2007

MAT 2213.01S Calculus III (July 2007 - August 2007)

MAT 4913.00T Independent Study (Stochastic Calculus) (June 2007 - July 2007)

Spring 2007

MAT 3623.001 Differential Equations II (January 2007 - May 2007)

Fall 2006

MAT 4213.002 Real Analysis I (August 2006 - December 2006)

MAT 4993.001 Honors Research (August 2006 - December 2006)

MAT 3633.001 Numerical Analysis (August 2006 - December 2006)

MAT 3613.001 Differential Equations I (August 2006 - December 2006)

Spring 2006

MAT 1214.014 Calculus I (January 2006 - May 2006)

MAT 1214.002 Calculus I (January 2006 - May 2006)

MAT 1214.004 Calculus I (January 2006 - May 2006)

MAT 1214.001 Calculus I (January 2006 - May 2006)

Fall 2005

MAT 4213.001 Real Analysis I (August 2005 - December 2005)

MAT 4913.002 Independent Study (Stochastic Calculus) (August 2005 - December 2005)

MAT 3633.001 Numerical Analysis (August 2005 - December 2005)

Summer 2005

Research for Undergraduate Students

MTBI, Arizona State University

Host: Los Alamos New Mexico

Spring 2005

MAT 1214.004 Calculus I (January 2005 - May 2005)

MAT 1214.003 Calculus I (January 2005 - May 2005)

Fall 2004

MAT 1214.001 Calculus I (August 2004 - December 2004)

MAT 1214.006 Calculus I (August 2004 - December 2004)

Summer 2004

Research for Undergraduate Students

MTBI, Arizona State University

Host: Los Alamos New Mexico

Directed Student Learning

Comprehensive Exams Committee Chair (Masters), "Stochastic Calculus Comprehensive Exam." Completed, (September 1, 2013 - September 19, 2014).
Advised: Victoria Espinosa, Mathematics (M.S.), The University of Texas at San Antonio

Faculty Mentor, "Stochastic Modeling of Parasites in Host Populations." Completed, (January 1, 2009 - March 18, 2010).
Advised: Gaby Prieto, Mathematics for Teaching (B.S.), UTSA

Faculty Mentor, "Stochastic Modeling of Parasites in Host Populations." Completed, (January 1, 2009 - March 18, 2010).
Advised: Michael Broome, Mathematics for Teaching (B.S.), UTSA

SERVICE

Department Service

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|----------------|--|
| 2021 - Present | Committee Member, Scholarship Committee, The University of Texas at San Antonio. Member of the Departmental Scholarship Committee |
| 2020 - Present | Committee Chair, Calculus I Coordinator since Fall 2020, The University of Texas at San Antonio. I am the calculus I coordinator. My responsibilities are to make sure all faculty members teaching calculus I are meeting their expectations according to the syllabus. |
| 2022 | Committee Member, FTT Department Review Committee, The University of Texas at San Antonio. I was a member of the FTT Department Review Committee |
| 2020 | Committee Chair, Chair of Faculty Review Committee for AY 2019-2020, The University of Texas At San Antonio. I was the chair of the |

Faculty Review Committee for NTT in AY 2019-2020. Our role was to evaluate (with 2 other members) all the NTT Faculty and report the results in digital measures. As the chair, I was the one responsible for entering all the final FRC results on Digital Measures. I submitted those results in March 2019, right before the pandemic.

- 2006 - 2009 Committee Member, Departmental Faculty Advisory Committee, The University of Texas at San Antonio. I was a member of the Faculty Advisory Committee
- 2004 - 2009 Committee Chair, Departmental Recruitment/Publicity Committee for the AIM Masters Program, The University of Texas at San Antonio.
- 2005 - 2006 Committee Member, Departmental Undergraduate Catalog Committee, The University of Texas at San Antonio.
- 2004 - 2005 Committee Member, Departmental Screening Committee AIM Masters Program, The University of Texas at San Antonio.

University Service

- 2014 - 2015 Committee Member, Senate, UTSA.
- 2006 - 2007 Committee Member, Academic Freedom and Tenure Committee, The University of Texas at San Antonio.

Professional Service

- 2016 Reviewer, Journal Article, Numerical Algorithms. AI Algorithm for solving Stochastic Multi-Point Boundary Value Problems, Reviewer
- 2015 Reviewer, Journal Article, Journal of Computational and Applied Mathematics. Reviewer: A New Adaptive Multiple-Shooting Method for Solving Stochastic Multi-Point Boundary Value Problems
- 2015 Reviewer, Journal Article, Stochastic Analysis And Applications. Asymptotic Behavior of Solutions of Some Difference Equations Defined by Weakly Dependent Random Vectors. Reviewer
- 2014 Reviewer, Journal Article, Calcolo-A Quartely on Numerical Analysis and Theory of Computation. Reviewer: A family of Chaplygin-type solvers for ito stochastic differential equations
- 2012 Reviewer, Journal Article, Revista De Matematica: Theoria Y

- Aplicaciones. Reviewed an article entitled "Construccion y Estudio de Codigos Adaptivos de Linealizacion Local Para Ecuaciones Diferenciales Ordinarias
- 2012 Reviewer, Journal Article, SIAM Journal on Applied Mathematics. "Extinction and Recurrence of SIRs Epidemic Models with Stochastic Perturbation," by Q. Yang and Hong Liu.
- 2012 Reviewer, Journal Article, The Journal of Engineering Computations. "Combined Probabilistic Algorithm for Solving High Dimensional Problems," by R. Farnosh, M. Ebrahimi, and M. Aalaei.
- 2012 Special Session Organizer and Chair, AMS, Boston, MA. With Edward J. Allen, Texas Tech University, Gangaram S. Ladde, University of South Florida, Sivapragasam Sathanathan, Tennessee State University, and Mahmoud Anabtawi, American University of Sharjah, and) AMS-Special Session on Theory and Application of Stochastic Differential Equations and Stochastic Partial Differential Equations, 2012 Joint Mathematics Meetings.
- 2011 Special Session Organizer and Chair, AMS, New Orleans, LA. (With Edward J. Allen, Texas Tech University, Sivapragasam Sathanathan, Tennessee State University, and Mahmoud Anabtawi, American University of Sharjah) AMS- Special Session on Theory and Application of Stochastic Differential Equations and Stochastic Partial Differential Equations, Joint Mathematics Meetings, Meeting #1067.
- 2000 - 2010 Member, The American Mathematical Society (AMS).
- 2000 - 2010 Member, The Mathematical Assosiation of America (MAA).
- 2000 - 2010 Member, The Society for Industrial and Applied Mathematics (SIAM).
- 2010 Reviewer, Conference Paper, International Conference of Numerical Analysis and Applied Mathematics 2010 (ICNAAM 2010). "Modeling of an RLC Circuit by the SDE with Color Noise," by R. Rezaeyan and R. Farnoosh, Submitted to the Proceedings of International Conference of Numerical Analysis and Applied Mathematics 2010 (ICNAAM 2010), (Reviewer, July, 2010).
- 2010 Reviewer, Journal Article, Nonlinear Analysis Series B: Real World Applications. "Practical Stability of Nonlinear Stochastic Hybrid Parabolic Systems of Ito-Type: Vector Lyapunov Functions Approach," by M. J. Anabtawi, Submitted to the Journal of Nonlinear Analysis Series B: Real World Applications (Reviewer, July, 2010).
- 2010 Reviewer, Journal Article, Computers & Mathematics with

- Applications. Series solution of nonlinear two-point singularly perturbed boundary layer problems by M. Turkyilmazoglu, submitted to the Journal of Computers & Mathematics with Applications, (Reviewer, April, 2010).
- 2010 International Organizing Committee, The American University of Sharjah (AUS) and The American Mathematical Society (AMS). Organizing Committee for The First International Conference on Mathematics and Statistics.
- 2010 Editor, Book, The American University of Sharjah (AUS) and The American Mathematical Society (AMS). AMS Special Session on Theory and Application of SDES and SPDES, First International Conference on Mathematics and Statistics at The American University of Sharjah.
- 2010 Reviewer, Journal Article, Nonlinear Analysis: Hybrid Systems. "STABILIZATION OF STOCHASTIC SYSTEMS UNDER MARKOVIAN SWITCHING," by S. Sathanathan, submitted to the Journal of Nonlinear Analysis: Hybrid Systems (Reviewer, February, 2010).
- 2009 Reviewer, Journal Article, The International Journal of Computer Mathematics. "A quadratically convergent iterative method" by Yun, B.I. and Ptkovic M. S., submitted to the International Journal of Computer Mathematics (Reviewer, August 2009).
- 2009 Reviewer, Journal Article, The Journal of Mathematical Biosciences and Engineering. "Evolution of Lotka-Volterra Predator-Prey Systems with Carrying Capacity and the Effect of Telegraph Noise" by P. Auger, N.H. Du and N.T. Hieu, Submitted to the Journal of Mathematical Biosciences and Engineering (Reviewer, April 2009).
- 2007 Reviewer, Journal Article, The Journal of Qualitative Finance. "On The Analytical-Numerical Valuation of the Bermudan and American Options" by Prekopa, A. and Szantai, T., Submitted to the Journal of Quantitative Finance (Reviewer, August 2007).
- 2007 Reviewer, U.S. Civilian Research and Development Foundation. Grant Proposal "Inverse Spectral Problems for Differential Equations on Graphs and Their Applications" Submitted to the Cooperative Grants Program (CGP) 2007-A of the U.S. Civilian Research and Development Foundation (Reviewer, April 2007).
- 2007 Session Chair, The American Mathematical Society (AMS), Davidson, NC. AMS Special Session on Theory and Application of Stochastic Differential Equations, 2007 Spring Southeastern Section Meeting,

Meeting #1024.

- 2006 Session Chair, The American Mathematical Society (AMS) and The Society for Industrial and Applied Mathematics (SIAM), San Antonio, TX. (With E.J. Allen) AMS-SIAM Special Session on Theory and Application of Stochastic Differential Equations, Joint Mathematics Meetings, Meeting #1014.
- 2005 Session Chair, The American Mathematical Society (AMS), Lubbock, TX. (With E.J. Allen) AMS Special Session on Theory and Application of Stochastic Differential Equations, 2005 Spring Central Section Meeting, Meeting #1006.
- 2004 Reviewer, Journal Article, The Journal of Numerical Analysis and Modeling. "Convergence and stability of Balanced Implicit Methods for Systems of SDEs" by H. Schurz, submitted to the International Journal of Numerical Analysis and Modeling (Reviewer, August 2004).

Consulting

- 2005 Mentored Students at MTBI, Arizona State University, Los Alamos National Laboratory
- 2004 Mentored Students at MTBI, Arizona State University, Los Alamos New Mexico

Awards, Honors, and Biographical Listings

- 2021 15 Years of Service, The University of Texas at San Antonio
- 2015 10 Years of Service, The University of Texas at San Antonio
- 2009 Certificate of Appreciation from Student Organization Council, The University of Texas at San Antonio
- 2009 5 Years of Service, The University of Texas at San Antonio
- 2009 Recognition for mentoring two McNair Scholars, The University of Texas at San Antonio
- 2007 Listed on Who's Who in America, sixty-first edition, Who's Who in America
- 2006 Certificate of Appreciation, The University of Texas at San Antonio

2005 Appreciation Award on behalf of the Student Honor Society, The University of Texas at San Antonio

Professional Memberships

2000 - 2013 The American Mathematical Society

Faculty Development Activities Attended

2010 Workshop, MAA PREP WORKSHOP 2010 Mathematical Modeling in Population Biology & Epidemiology, Texas Tech University

2009 Workshop, Great Circles 2009, The Mathematical Sciences Research Institute, Berkeley, CA

2009 WorkshopI attended a workshop on NSF grant proposal writing hosted by the Quality Education for Minorities Network. The workshop focused how to apply for an NSF Faculty Early Career Development (CAREER) grant proposal., QEM/NSF, New Orleans