Rebecca E. Garcia
September 14, 2017

Campus Address

Department of Mathematics and Statistics
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Education	**Ph.D. in Mathematics**	August 2004
	New Mexico State University, Las Cruces, NM	
	Dissertation: On the minors of catalecticant matrices and on the coadunation of generalized crowns.	
	Advisor: Irena Swanson	
	M.A. in Mathematics	May 1999
	University of California, Berkeley, CA	
	B.S. in Mathematics	May 1995
	Loyola Marymount University, Los Angeles, CA	
	Cum Laude	

Research Interests

Computational Commutative Algebra
Computational Algebraic Geometry
Algebraic Combinatorics
Theory of Order Dimension of Partially Ordered Sets
Using Original Sources in Mathematics Education
Broadening Participation in the Mathematical Sciences

Professional Organizations

American Mathematical Society
Mathematical Association of America
Society for the Advancement of Chicanos and Native Americans in Science
Association for Women in Mathematics

Employment

Associate Professor, Fall 2010 - Present
Sam Houston State University
Department of Mathematics and Statistics
Huntsville, TX 77340 - 2206

Independently conduct three mathematics classes per semester; Engage in mathematical research.

Co-Director of the Pacific Undergraduate Research Experience in Mathematics Program (PURE Math), Summer 2011 - Summer 2015
University of Hawai'i at Hilo
Department of Mathematics
Hilo, HI 94720

Administrator for PURE Math Program and facilitate weekly professional development workshops.

Assistant Professor, Fall 2004 - Spring 2010
Sam Houston State University
Department of Mathematics and Statistics
Huntsville, TX 77340 - 2206

Independently conduct three mathematics classes per semester; Engage in mathematical research.

Visiting Scholar,   Fall 2005 - Summer 2007
    Texas A&M University
    Department of Mathematics
    College Station, TX 77845
        Attend and participate in weekly working seminars in algebraic geometry and commutative algebra.

Publications   **In Preparation**

R. Garcia, L. García-Puente, E. Herman, A. Martin, B. Oakley, "Super-Accessible Transient of a Sandpile Monoid," in preparation for submission to the Electronic Journal of Combinatorics.

R. Garcia, L. García-Puente, S. Spielvogel, "Toward the Completion of Emmy Noether's 1908 Doctoral Dissertation on the Algebraic Invariants of Fourth Degree Forms in Three Variables," in preparation for possible book publication through the AMS.

R. Garcia, T. Kovyrshina, M. Montes, K. Watkins, "Algebraic Combinatorics of Franklin Magic Circles," in preparation for submission to *The Australasian Journal of Combinatorics.*

R. Garcia, P. Harris, B. Kubik, S. Talbott, "The Order Dimension of Layered Non-Identical Generalized Crowns," in preparation for submission to *Order.*

Submitted

F. Barrera-Cruz, R. Garcia, P. Harris, B. Kubik, H. Smith, S. Talbott, L. Taylor and W.T. Trotter, "The Graph of Critical Pairs of a Crown," submitted (2016) to *Order.*

R. Garcia, P. Harris, B. Kubik, S. Talbott, "Block Circulant Graphs and the Graphs of Critical Pairs of a Crown," submitted (2015), revised and resubmitted (2016) to *Graphs and Combinatorics.*

R. Garcia, , L. García-Puente, R. Kruse, D. Miyata, E. Peterson, N. Youngs, "Neural Codes in Sage," submitted (2016) to the Journal of Software for Algebra and Geometry.

R. Garcia, L. García Puente, J. Liu, R. Kruse, D. Miyata, E. Peterson, K. Phillipson, A. Shiu, "Gröbner Bases of Neural Ideals." submitted (2016) to MEGA 2017 (Effective Methods in Algebraic Geometry) - a refereed conference in Europe that publishes accepted papers.

Published

R. Garcia, C. Wyels, "Broadening Participation and Promoting Success," *Involve* Special Issue: Trends in Undergraduate Research in the Mathematical Sciences (Chicago, 2012), **Vol. 7, No. 3**, (2014) p. 315 - 326. DOI: 10.2140/involve.2014.7-3

R. Garcia and D. Silva, "Order Dimension of Layered Generalized Crowns," *Ars Combinatoria*, Vol. CXIIIA, January 2014, p. 171 - 186.

S. Chapman, L. García-Puente, R. Garcia, M. Malandro, and K. Smith, "Algebraic and combinatorial aspects of sandpile monoids on directed graphs," *Journal of Combinatorial Theory, Series A*, **120** (2013) 245 - 265.

R. Garcia, M. Lane and B. Loft, "Enumeration and Construction of Magic n Circles," *Mathematics and Computers in Simulation*, **82** (2011) 44 - 53.

R. Garcia, S. Meyer, S. Sanders, and A. Seitz, "Construction and enumeration of Franklin circles," *Involve*, **2** Issue 3 (2009), 357 – 370. Also available online at `http://pjm.math.berkeley.edu/involve/2009/2-3/index.xhtml`

R. Garcia, "On the Minors of Catalecticant Matrices and on the Coadunation of Generalized Crowns," Ph.D. Dissertation, New Mexico State University (2004)

R. Garcia (as R. Pablo), J. Little, D. Ortiz, R. Ortiz-Rosado, and K. Rios-Soto, "Some Remarks on Fitzpatrick and Flynn's Gröbner Basis Technique for Padé Approximation," *Journal of Symbolic Computation* **35** (2003), 451-461.

Grants, Fellowships, Awards and Scholarships

Focused Research Group Grant Through the Banff International Research Station (BIRS), the Focused Research Group is a program that allows a dedicated small group of mathematicians to spend three days at BIRS in Alberta, Canada to work on a project as specified in the proposal. (Submitted Fall 2016)

SQuaRE Grant Through the American Institute of Mathematics (AIM), the Structured Quartet Research Ensembles (SQuaREs) is a program that allows a dedicated small group of mathematicians to spend a week at the AIM in San Jose, California to work on a project as specified in the proposal, with the possibility of returning in following years. (Submitted Fall 2016)

Distinguished College or University Teaching of Mathematics Award bestowed by the Texas Section of the Mathematical Association of America (Awarded Spring 2015)

Mathematical Sciences Program of the National Security Agency Research Experience for Undergraduates Grant (Awarded) Through the National Security Agency, the Division of Mathematical Sciences awards grants in support of undergraduate research programs in mathematics which target severely underrepresented groups. This grant will be used to help fund the Pacific Undergraduate Research Experience in Mathematics, beginning Summer 2014. **Amount awarded $58,530.** (Submitted Fall 2013, Awarded Fall 2013)

Mathematical Sciences Program of the National Security Agency Research Experience for Undergraduates Grant (Awarded) Through the National Security Agency, the Division of Mathematical Sciences awards grants in support of undergraduate research programs in mathematics which target severely underrepresented groups. This grant will be used to help fund the Pacific Undergraduate Research Experience in Mathematics, beginning Summer 2012. **Amount awarded $60,970.** (Submitted Fall 2011, Spring 2012)

National Science Foundation Grant - Enhancing the Mathematical Sciences Workforce in the 21st Century (Awarded) in collaboration with University of Hawai'i at Hilo to begin an undergraduate research program in mathematics targeting Pacific Islanders: Pacific Undergraduate Research Experience in Mathematics (PURE Math) to be launched Summer 2011. **Amount awarded $1,473,691.** (Submitted Fall 2010, Awarded Spring 2011)

National Science Foundation Grant - Research Experience for Undergraduates in collaboration with University of Hawai'i at Hilo to begin an undergraduate

research program in mathematics targeting Pacific Islanders: Pacific Undergraduate Research Experience in Mathematics (PURE Math) to be launched Summer 2010. (Submitted Fall 2009)

Center for Undergraduate Research in Mathematics Grant (Awarded) Each year, eight to ten professors at various institutions across the United States are awarded grants to assist them financially, instructionally, and organizationally in operating successful undergraduate research groups at their own institutions during the academic year. **Amount awarded $16,450.** (Summer 2007 - Spring 2008)

SHSU Enhancement Grant for Research (Awarded) Toward the planning and developmental stages of the 2011 Pacific Undergraduate Research Experience in Mathematics in the academic year 2009 - 2010. **Amount awarded $18,000.** (Summer 2009 - Summer 2010)

Application for SHSU Enhancement Grant for Research Toward the planning and developmental stages of the 2009 Pacific Undergraduate Research Experience in Mathematics during the academic year 2008 - 2009. (Fall 2007)

Application for Conferences, Workshops, and Special Situations Grant National Security Agency Grant, Division of Mathematical Sciences. Toward the support of the pilot year of the Pacific Undergraduate Research Experience in Mathematics in Summer 2009. (Fall 2007)

Application for Travel Grant, Association for Women in Mathematics. (Spring 2005)

Teaching Experience

Sam Houston State University

Courses Taught

College Mathematics
Precalculus Algebra
Mathematics for Managerial Decision-Making I
Mathematics for Managerial Decision-Making II
Calculus I
Calculus II
Calculus Survey
Linear Algebra
Discrete Mathematics
Introduction to Mathematical Proofs
Algebraic Structures
(Graduate) Numerical Linear Algebra
(Graduate) Algebra I
(Graduate) Algebra II
(Graduate) Topics Course: Computational Commutative Algebra
(Graduate) Complex Analysis

Direction of Masters Students' Projects / Thesis

- **Joshua Miller,** "The Sandpile Group of Thick Cycles." (2015)
- **Francisco Quiroz,** "The Duals of the Series-Parallel Graphs $C_{a,n}$ and $||_i P_{a_i}$." (Prospectus, 2014)
- **Ashani Gamage,** "On the Sandpile Group over Generalized Crowns." (Prospectus, 2014)

- **Sarah Spielvogel,** "Toward the Completion of Emmy Noether 1908 Doctoral Dissertation on the Algebraic Invariants of Fourth Degree Forms in Three Variables" (Thesis, 2012)
- **Charity Bankhead,** "Strict Hypergraph of Critical Pairs for Generalized Crowns" (Thesis, 2011)
- **Khulud Alyousef,** "Towards a Generalization of the Sandpile Group of Cycles" (2008)
- **Mark Lane,** "Algebraic Combinatorics of Magic n-circles" (2008)
- **Darrel Silva,** "Layers of Generalized Crowns" (2007)

Direction of Undergraduate Students' Projects

- PURE Math 2015 Ryan Kruse, Dane Miyata, Ethan Peterson "Gröbner Bases of Neural Ideals." (Summer 2015)
- PURE Math 2014 Amadeus Martin, Brian Oakley, Elizabeth Hermann "Super-Accessible Transient of a Sandpile Monoid." (Summer 2014)
- PURE Math 2014 Bianca Mastache, Vincent Longo, Angel Castillo "Sandpile Group of Series Parallel Graphs." (Summer 2014)
- Caroline Tillman "Updating the Statistics for '*Odds on You.*'" (Fall 2013)
- LURE Research Advisor for Tatiana Kovyrshina, Maxsimino Montes, Katie Watkins on "Enumerating and Constructing Magic Circles" (Summer 2010 - Summer 2012) – Montes wins the Undergraduate Poster Award in General Mathematics at the 2011 SACNAS National Conference.
- Stefanie Meyer, Stacey Sanders and Amanda Seitz, "Algebraic Combinatorics of Franklin Magic Circles" (Fall 2007 - Spring 2008)
- Mark Lane, "Constructing and Enumerating Diametric Magic n-Circles" (Spring 2005 - Fall 2006)

Invited Talks	**"Neural Ideals and Gröbner Bases"**	February 2017

"Neural Ideals and Gröbner Bases" February 2017
Keynote presentation for the 2017 ASPiRE Conference, Florida Gulf Coast University,
Fort Myers, FL

"Enumeration and Construction of Franklin's Magic Circle" December 2016
Active-learning mathematics presentation at the Saturday Mathematics Workshop, Charter Oak High School,
Covina, CA.

"Sandpile Group on Series-Parallel Graphs" April 2016
Presented at the Infinite Horizons Lecture Series sponsored by the Kennesaw Women in Mathematics, Kennesaw State University,
Atlanta, GA.

"Enumeration and Construction of Franklin's Magic Circle" Fall 2014
Presented at the Women of Color in the Mathematical Sciences, The United States Military Academy,
West Point, NY.

"Sandpile Group on Series-Parallel Graphs" Fall 2014
Presented at the Mathematics Seminar, Texas A & M University,
Galveston, TX.

"Enumeration and Construction of Franklin's Magic Circle" Spring 2014
Plenary Talk presented at the CombinaTexas, Texas A & M University,
College Station, TX.

"PURE Math" Fall 2013

Presented at the Journeys Seminar for the Honors College, Sam Houston State University, Huntsville, TX.

"Strict Hypergraphs of Critical Pairs for Generalized Crowns" Fall 2013

Presented at the Scientific Symposia Session *Current Contributions by Women Mathematicians*, SACNAS National Conference, San Antonio, TX.

"Enumeration and Construction of Franklin's Magic Circle" Fall 2012

Presented at the Combinatorics Seminar, Texas State University, San Marcos, TX.

"Enumeration and Construction of Franklin's Magic Circle" Spring 2012

Presented at the American Mathematical Society Western Regional Conference, University of Hawai'i at Manoa, Honolulu, HI.

"Benjamin Franklin's Magic" Spring 2011

Presented at the Infinite Horizons Lecture Series sponsored by the Kennesaw Women in Mathematics, Kennesaw State University, Atlanta, GA.

"Order Dimension of Layered Generalized Crowns" Fall 2009

Presented at the Department of Mathematics and Statistics Colloquium, Sam Houston State University, Huntsville, TX.

"Enumerating and Constructing Magic n-Circles," Fall 2009

Presented at the 2009 SACNAS Conference: An Abstract Look at Algebra, Dallas, TX.

"Enumerating and Constructing Magic n-Circles," Spring 2009

Presented at the Mathematics Colloquium at Reed College, Portland, OR.

"Sandpile Groups of Flowers" Fall 2008

Presented at the Algebraic Combinatorics Seminar, Sam Houston State University, Huntsville, TX.

"Sandpile Groups" Fall 2008

Presented at the Department of Mathematics Friday Colloquia, University of Dallas Irving, TX.

"Layers of Generalized Crowns" Spring 2007

Presented in the Research Presentation Sessions, Infinite Possibilities Conference, North Carolina State University, Raleigh, NC.

"On Hillar's and Nie's Elementary and Constructive Solution to Hilbert's 17th Problem" Spring 2007

Presented at the Department of Mathematics and Statistics Colloquium, Sam Houston State University, Huntsville, TX.

"Coadunation of Generalized Crowns"   Spring 2007

Presented at the Special Session of Universal Algebra and Ordered Sets, AMS - MAA Joint Meetings,
New Orleans, LA.

"Coadunation of Generalized Partially Ordered Sets"   Spring 2005

Presented in the Professional Talks, Infinite Possibilities Conference, Spelman College,
Atlanta, GA.

Contributed Talks	

"REUs: Broadening Participation and Promoting Success"   Fall 2013

presented at the ADVANCE Purdue 2013 Women of Color Faculty in STEM Conference,
Indianapolis, IN.

"Benjamin Franklin's Magic"   Spring 2012

presented at the 2012 Joint Mathematics Meeting, MAA General Contributed Paper Session "Other",
Boston, MA.

"Mathematical Models: Current Research of Present-Day Role Models of the Underrepresented,"   Fall 2011

organized Scientific Symposium for the 2011 SACNAS National Conference - William Ryan,
San Jose, CA.

"Benjamin Franklin's Magic"   Spring 2011

presented at the Freshman Seminar for Mathematics Majors, Loyola Marymount University
Los Angeles, CA.

"Dimension Theory of Layered Generalized Crowns,"   Fall 2010

Poster presented at the 2010 Aspectos Combinatorios y Computacionales de Optimización, Topología y Algebra (ACCOTA),
Playa del Carmen, Mexico.

"Dimension Theory of Layered Generalized Crowns,"   Fall 2010

Presented at the 2010 SACNAS Conference,
Anaheim, CA.

"Enumerating and Constructing Franklin Circles,"   Spring 2010

Presented at the 2010 Infinite Possibilities Conference, University of California - IPAM,
Los Angeles, CA.

"Enumerating and Constructing Magic Circles,"   Fall 2009

Presented at the 2009 Texas Undergraduate Mathematics Conference, Sam Houston State University,
Huntsville, TX.

"Constructing and Enumerating Magic Circles and Franklin Circles,"   Summer 2009

Presented at the 2009 Applications of Computer Algebra Conference,
Montréal Quebec, Canada.

"Magic Circles,"   Spring 2009

Presented for the Gifted and Talented at Mance Park Middle School,
Huntsville, TX.

"Layers of Generalized Crowns"   Spring 2008
Presented at 2008 Intermountain Regional MAA Spring Conference, Brigham Young University,
Provo, UT.

"Encouraging Women in Science and Mathematics"   Fall 2006
Presented with Jacqueline Jensen, 17th Annual Alliance of Universities for Democracy (AUDEM) Conference,
Katowice, Poland.

Exhibits and Panels	**USTARS Panel: Mentoring Panel** Panelist, Huntsville, TX.	Spring 2016

MAA Panel: Undergraduate Research as a Capstone Course.   Spring 2016
Panelist, 2016 JMM,
Seattle, WA.

Operation Math Girls Workshop: Spring 2016
Bubbles and The Steiner Problem
Workshop leader, OMG 2016,
Huntsville, TX.

MAA Panel: How to begin an undergraduate research   Spring 2014
program at JMM 2014, Panel organizer.
Co-organizer with Dr. Herbert Medina, 2014 JMM,
Baltimore, MD.

Operation Math Girls Workshop: Bubbles and Geodesics   Fall 2014
Workshop leader, OMG 2014,
Huntsville, TX.

"Working with Underrepresented Groups on Undergraduate
Research,"   Fall 2012
Panelist at the MAA Trends in Undergraduate Research Conference,
Chicago, IL.

"Navigating Trans-Cultural Identities,"   Spring 2012
Panelist at the 2012 Infinite Possibilities Conference,
Baltimore, MD.

"Issues for Early Career Mathematicians in Academia,"   Fall 2011
Panelist at the 2011 MathFest,
Lexington, KY.

"Moving up the career ladder in academia,"   Fall 2011
AWM Panel Organizer at the 2011 MathFest,
Lexington, KY.

"Being a Female Mathematician From an Underrepresented
Group,"   Spring 2011
Panelist at the 2011 National Conference for Undergraduate Women in Mathematics,
Lincoln, NE.

"The Role of Mentoring in Undergraduate Mathematics: Promising Re-

cruitment and Retention Strategies,"   Spring 2011
Panelist at the 2011 Joint Mathematics Meetings,
New Orleans, LA.

"The Role of Mentoring in Undergraduate Mathematics: Promising Recruitment and Retention Strategies,"   Summer 2010
Panelist at the 2010 MathFest,
Pittsburgh, PA.

"Motherhood and Mathematics,"   Spring 2010
Panelist at the 2010 Infinite Possibilities Conference, University of California - IPAM,
Los Angeles, CA.

**"Starting and Maintaining an Academic Year
Undergraduate Research Program"**   Spring 2009
Panelist at the 2009 Joint Meeting of the MAA and AMS,
Washington, D.C.

"Graduate Programs in the College of Arts and Sciences"   Fall 2007
Exhibitor, Society for the Advancement of Chicanos and Native Americans in Sciences,
Kansas City, MO.

"Graduate Programs in the College of Arts and Sciences"   Fall 2006
Exhibitor, Society for the Advancement of Chicanos and Native Americans in Sciences,
Tampa Bay, FL.

Contributed Biography	**Featured and quoted in the 2016 American Mathematical Society's Annual Report as a volunteer member of the Committee on Meetings and Conferences**, Fall 2016.

"Grassroots: A Series of Conversations on Leadership in a Diverse Community," interview hosted by the Student Advising and Mentoring Center, Sam Houston State University, Huntsville, TX in Spring 2011.

"Students Find Female Role Model In Male-Dominated Field" for SHSU Homepage and in the Huntsville Item, interview conducted by SHSU Media in Fall 2010.

"The SACNAS Biography Project," includes 77 written biographies of the professional lives of Latino and Native American scientists, mathematicians, and engineers for use in the K-12 classroom. Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)

"The SACNAS Video," includes 9 video interviews on the development of the professional lives of Latino and Native American scientists, mathematicians, and engineers. Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)

Professional Development	**USTARS Early Career Workshop:** **Setting Yourself Up For Success**	Spring 2016
	Sam Houston State University, Huntsville, TX.	

Organized and attended The Workshop on   Spring 2016
Dimension Theory of Posets and Its Applications

United States Military Academy, West Point, NY.

Organized and attended The Workshop on   Spring 2015
Dimension Theory of Posets and Its Applications
United States Military Academy, West Point, NY.

Participated in Workshop on Sandpiles   Fall 2015
Banff International Research Station - Casa Matematica Oaxaca (BIRS-CMO) Oaxaca City, Oaxaca, Mexico

Attended Friday Afternoon Clubs   Fall 2010 - Present
Sam Houston State University, Huntsville, TX.

Attended Departmental Colloquia   Fall 2004 - Present
Sam Houston State University, Huntsville, TX.

Participated in Algebra / Algebraic Combinatorics
Seminar   Fall 2007 - Present
Sam Houston State University, Huntsville, TX.

Participated in Wiley's Faculty Network   Spring 2008
"Live. Love. Math: Putting Your Students on the Path to Success"
Austin, TX. Supported.

Met with Program Directors at the National Science Foundation   Fall 2007
Toward building a Research Experience for Undergraduates in the Mathematical Sciences
Lloyd Douglass and Jody Chase
Arlington, VA. Supported.

Attended Workshops at the Infinite Possibilities Conference   Spring 2007
Workshop on Funding Opportunities
Workshop on Balancing Career and Family
North Carolina State University, Raleigh, NC. Supported.

Attended the Summer Workshop   Summer 2007
Center for Undergraduate Research in Mathematics, Brigham Young University
Provo, UT. Supported.

Participated in MAA PREP Workshop   Summer 2007
"How to Build and Run a Successful Emerging Scholars Program"
Austin, TX. Supported.

Participated in Wiley's Faculty Network   Spring 2007
"Visualizing the Future of Mathematics Education Reform"
Los Angeles, CA. Supported.

Participated in the Algebra and Combinatorics Seminar   Fall 2006
Department of Mathematics, Texas A&M University
College Station, TX.

Participated in the Workshop in Algebraic Coding Theory   Summer 2006
Department of Mathematics, Texas A&M University
College Station, TX.

	Participated in the Texas Algebraic Geometry Seminar	Summer 2006

Department of Mathematics, Texas A&M University
College Station, TX.

Attended Workshops at the Infinite Possibilities Conference — Spring 2005
Workshop on Funding Opportunities
Workshop on Balancing Career and Family
Spelman College, Atlanta, GA. Supported.

Conferences Attended	**Joint Meetings of the Mathematical Association of America and the American Mathematical Society (JMM)**	Spring 2017

Seattle, WA.

TPSE Math Chairs +1 Conference — Fall 2016
Transforming Post-Secondary Education in Mathematics at the AAAS
Washington D.C.

JMM — Spring 2016
Seattle, WA.

Sandpile Groups Workshop at the BIRS-CMO — Fall 2015
Oaxaca City, Oaxaca. Mexico.

Texas Sectional of the MAA Meeting — Spring 2015
San Antonio, TX.

JMM — Spring 2015
San Antonio, TX.

SACNAS National Conference — Fall 2014
Los Angeles, CA.

CombinaTexas — Spring 2014
College Station, TX.

JMM — Spring 2014
Baltimore, MD.

SACNAS National Conference — Fall 2013
San Antonio, TX.

JMM — Spring 2013
San Diego, CA.

Trends in Undergraduate Research Conference — Fall 2012
Chicago, IL.

SACNAS Conference — Fall 2012
Seattle, WA.

Infinite Possibilities Conference — Spring 2012
Baltimore, MD.

American Mathematical Society Western Sectional Meeting — Spring 2012

Honolulu, HI.

JMM   Spring 2012
Boston, MA.

SACNAS National Conference   Fall 2011
San Jose, CA.

MathFest   Summer 2011
Lexington, KY.

CombinaTexas   Spring 2011
Huntsville, TX.

**National Conference for Undergraduate Women in
Mathematics**   Spring 2011
Lincoln, NE.

JMM   Spring 2011
New Orleans, LA.

**2010 Aspectos Combinatorios y Computacionales de
Optimización, Topología y Algebra (ACCOTA),**   Fall 2010
Playa del Carmen, Mexico.

Long-term Undergraduate Research Experience Conference   Fall 2010
Huntsville, TX.

SACNAS National Conference   Fall 2010
Anaheim, CA.

MathFest   Summer 2010
Pittsburgh, PA.

Infinite Possibilities Conference   Spring 2010
Los Angeles, CA.

Texas Undergraduate Mathematics Conference   Fall 2009
Huntsville, TX.

Conference of SACNAS   Fall 2009
Dallas, TX.

2009 Applications of Computer Algebra Conference   Summer 2009
Montréal Quebec, Canada.

JMM   Spring 2009
Washington, D.C.

Texas Undergraduate Mathematics Conference   Fall 2008
Huntsville, TX.

2008 Intermountain Regional MAA Spring Conference   Spring 2008
Provo, UT.

	Wiley's Faculty Network Workshop Austin, TX.	Spring 2008
	JMM San Diego, CA.	Spring 2008
	Conference of SACNAS Kansas City, MO.	Fall 2007
	Infinite Possibilities Conference Raleigh, NC.	Fall 2007
	Wiley's Faculty Network Workshop Los Angeles, CA.	Spring 2007
	JMM New Orleans, LA.	Spring 2007
	Conference of SACNAS Tampa Bay, FL.	Fall 2006
	17th **Annual Alliance of Universities for Democracy (AUDEM) Conference** Katowice, Poland.	Fall 2006
	Workshop for Algebraic Coding Theory College Station, TX.	Summer 2006
	Texas Undergraduate Mathematics Conference Huntsville, TX.	Fall 2005
	Infinite Possibilities Conference Atlanta, GA.	Spring 2005
	JMM Atlanta, GA.	Spring 2005
	JMM Pheonix, AZ.	Spring 2004
Academic Service to the Mathematics Community	**MAA Project NExT Mentor for Dr. Alicia Machuca**	Fall 2016
	Member-at-large AMS Committee on Meetings and Conferences	Spring 2016 - Fall 2018
	Chair of MAA Subcommittee on Research Done by Undergraduates	Spring 2016 - Fall 2018
	Member of MAA Subcommittee on Research Done by Undergraduates	Spring 2014 - Fall 2015
	Evaluation of Tenure and Promotion Packet for Loyola Marymount University	Fall 2016

Organizer of the SHSU Mathematical Scholars' Circle	Fall 2014 - Spring 2016
Editorial Board for the MAA's Mathematics Magazine	Spring 2015 - Present
MAA Project NExT Mentor for Dr. Martha Precup	Fall 2015
Judge Student Posters for JMM	Spring 2015
Judge Student Posters for Conference of the Society for the Advancement of Chicanos and Native Americans in Science (SACNAS)	Fall 2014
Letter of Support for Dr. William Velez for AWM Gwyneth Humphreys Award	Fall 2014
Letter of Support of CURM as AMS Programs that Make a Difference	Fall 2014
Judge Student Posters for JMM	Spring 2014
Nominator for Dr. Herbert A. Medina for the SACNAS Distinguished Mentor Award 2014	Fall 2013
Nominator for Dr. Herbert A. Medina for the Presidential Award (PAESMEM) 2014	Fall 2013
Judge Student Posters for SACNAS	Fall 2013
Judge Student Posters for JMM	Spring 2013
Judge Student Posters for SACNAS	Fall 2012
Judge Student Abstracts for SACNAS	Summer 2012
Judge Student Posters for JMM	Spring 2012
Judge Student Posters for SACNAS	Fall 2011
Judge Student Abstracts for SACNAS	Summer 2011
Judge Student Posters for SACNAS	Fall 2010
Judge Student Abstracts for SACNAS	Summer 2010
Reviewer for MSTAAR Screener	Spring 2010
Reviewer for CURM Grants	Spring 2010
Faculty Liaison to the MAA	Fall 2006 - Present.
Panelist for "Starting and Maintaining an Academic Year Undergraduate Research Program"	Spring 2009

at the JMM

	Judge Student Posters for SACNAS	Fall 2009
	Judge Student Abstracts for SACNAS	Fall 2009
	Judge Student Abstracts for SACNAS	Fall 2008
	Judge Student Posters for SACNAS	Fall 2007
	Judge Student Abstracts for SACNAS	Fall 2007
	Reviewed an article for *Communications in Algebra*	Spring 2007
	Reviewed an article for *Texas College Mathematics Journal*	Spring 2007
	Judge Student Posters for SACNAS	Fall 2006
	Judge Student Abstracts for SACNAS	Fall 2006
	Judge Student Abstracts for SACNAS	Fall 2005
	Judge Student Abstracts for SACNAS	Fall 2005
Academic Service to the University	**Member of CoS Curriculum Committee**	Fall 2013 - Present
	Member of CoS Committee on Undergraduate Research	Fall 2012 - Spring 2013
	Member of the Provost Search Committee	Spring 2011
	Member of CAS Appeals Committee	Fall 2010 - Present
	Member of Core Curriculum Assessment Committee	Fall 2007 - Present
	Member of Faculty Diversity Committee	Fall 2006 - Present
	Volunteer Judge for Academic Challenge	Fall 2008
	Member of Underrepresented Minority Faculty Populations Committee	Fall 2005 - Spring 2007
	Member of Women's Advisory Committee	Fall 2005 - Spring 2006
	Volunteer Judge for Academic Challenge	Fall 2006
	Volunteer Judge for Academic Challenge	Spring 2005

Academic Service to the Department	**Mathematics Area Undergraduate Coordinator**	Fall 2012 - Present
	Chair of the Search Committee	Fall 2012 - Spring 2013
	Chair of the Search Committee	Fall 2011 - Spring 2012
	Member of the Search Committee	Fall 2010 - Spring 2011
	Assistant to Undergraduate Advisor	Spring 2009 - Present
	Member of College of Arts and Sciences Core Curriculum Assessment Committee	Fall 2008 - Present
	Chair of the Honors Committee	Fall 2006 - Present
	Faculty Liaison to the MAA	Fall 2006 - Present
	Chair of the Textbook Committee for Trigonometry	Spring 2006
	Member of the Search Committee	Fall 2007 - Spring 2008
	Member of the Honors Committee	Fall 2004 - Summer 2006

Languages and Skills

Languages:	Fluency in English and Spanish
	Reading Knowledge of German and French
Software:	Maple, Mathematica, Macaulay 2, CoCoA, Singular, GAP, SAGE;
	Microsoft PowerPoint, Word, and Excel;
	LaTeX, C, C++ and Fortran