

**Dr. Sarah Stovall**  
Associate Professor

## **CURRICULUM VITAE**

### **PROFESSIONAL ADDRESS**

Stephen F. Austin State University  
Mathematics and Statistics  
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### **EDUCATION**

**PHD.**,  
Institution: Texas A&M University  
Specialization/Major: Mathematics

### **HONORS & AWARDS**

**Nomination for Teaching Excellence Award**, January 2008

### **TEACHING & RESEARCH INTERESTS**

Teaching Interests:

Sarah Stovall enjoys teaching all college-level mathematics courses, particularly College Geometry and Abstract Algebra, the two courses most closely allied to her research interests

Research Interests:

Sarah Stovall studied torsion sections of composite order for her doctoral thesis and tested a conjecture concerning Galois groups for her master's thesis. Since she has been at SFA, she has been the advisor for three master's theses in the area of abstract algebra.

### **LICENSURES & CERTIFICATIONS**

Certified Online Instructor, Office of Instructional Technology. (May 2008 - Present).

Van Certification. (March 31, 2008 - March 31, 2011).

I renewed my van certification to be able to drive students to the MAA meetings.

### **PUBLICATIONS**

Stovall, S. *Slice of Pi*.

Harris, R. J., Stovall, S. *Online Trigonometry*. Nacogdoches, Texas: Stephen F. Austin State University.  
Abstract: Material normally associated with a course in college level trigonometry.

Harris, R. J., Stovall, S. (2009). *Online College Algebra*. Nacogdoches, Texas: Stephen F. Austin State University.  
Abstract: Online college algebra course

Hubbard, K. E., Stovall, S. (2007). *Authored two department course syllabi*.

Abstract: Drs. Hubbard and Stovall authored the official department syllabi for Algebraic Structures (mth312), Abstract Algebra I (mth511), and Abstract Algebra II (mth512).

## CONFERENCE PRESENTATIONS

Harris, R. J. (Presenter & Author), Stovall, S. (Presenter & Author), P-16 Council Meeting, "Dual Credit College Algebra: Experiences in Rural Schools", P-16 Regional Council, Nacogdoches, Texas. (April 22, 2009).

Abstract: An overview of the dual credit initiative as developed and implemented by Harris and Stovall was given.

Harris, R. J. (Presenter & Author), Stovall, S. (Presenter & Author), 89th Annual Meeting of the Texas Section of the MAA, "Online Dual Credit College Algebra", Texas Section of the MAA, University of North Texas in Denton, Texas. (April 17, 2009).

Abstract: An overview of the pilot online dual credit college algebra course as delivered by Harris and Stovall was presented.

Harris, R. J. (Presenter & Author), Stovall, S. (Presenter & Author), Dual Credit College Algebra: Experiences in Rural Schools, "Dual Credit College Algebra: Experiences in Rural Schools", Stephen F. Austin State University, Nacogdoches, Texas. (March 12, 2009).

Abstract: An overview was given of the Dual Credit courses sponsored by the Department of Mathematics and Statistics at SFASU. The focus of the meeting was to recruit area school into the program.

Stovall, S., "Modular Arithmetic and Parlor Tricks", McMichael Middle School, Nacogdoches, Texas. (January 15, 2009).

Abstract: An overview of modular arithmetic was presented, and the check digit scheme for Universal Product Codes was explained.

Stovall, S. (Presenter & Author), RW Yeagy Colloquium, "Group Theory and Elliptic Curves with an Extension to Elliptic Surfaces", Department of Mathematics and Statistics, Nacogdoches. (April 14, 2008).

Stovall, S. (Presenter & Author), RW Yeagy Colloquium, "Group Theory and Elliptic Curves", Department of Mathematics and Statistics, Nacogdoches. (April 7, 2008).

## PROFESSIONAL MEMBERSHIPS

American Mathematical Society, (September 1, 2006 - August 31, 2007).

Mathematical Association of America, (September 1, 2006 - August 31, 2007).

Pi Mu Epsilon, (September 1, 2006 - August 31, 2007).

## CONTRACTS, GRANTS, & SPONSORED RESEARCH

Stovall, S. (Co-Principal), Harris, R. J. (Principal), "College Algebra for Rural School Districts Using Wireless Technology", Not Funded, Sponsored by Stephen F. Austin State University, Private, \$20,000.00. (January 2008 - February 2008).

Our project is a first attempt at Stephen F. Austin State University to deliver College Algebra in a web-based format. College Algebra is a course that customarily demands frequent interaction between student and instructor. This frequent interaction is often not possible in an online course, so one of our goals is to maintain an interactive communication using the Tablet PCs with inking technology for subject discussions.

The redesign of the College Algebra course will be a web-based course where students will stream video of the college professor (or be provided with a DVD copy) presenting material. The students will be required to view the video lecture twice a week with virtual office hours supplementing the video contact on the other three class days of the week. Due to the varying levels of proficiency in mathematics at the different participating districts, the course will be offered over the course of a full (9 months) academic year. The beginning of the course will be a detailed review of topics in what is customarily called intermediate algebra in the college curriculum.

## **TEACHING EXPERIENCE**

Stephen F. Austin State University, Fall 2009  
MTH 138 601, COLLEGE ALGEBRA  
MTH 110 1, MATHEMATICS IN SOCIETY - HONORS  
MTH 140 2, PRECALCULUS MATHEMATICS

Stephen F. Austin State University, Summer 2 2009  
MTH 129 500, CONCEPTS AND APPLICATIONS  
MTH 312 1, INTRO TO ALGEBRAIC SYSTEMS

Stephen F. Austin State University, Spring 2009  
MTH 512 1, ABSTRACT ALGEBRA II  
MTH 233 1, CALCULUS I  
MTH 138 601, COLLEGE ALGEBRA  
MTH 590 1, THESIS WRITING

Stephen F. Austin State University, Fall 2008  
MTH 511 1, ABSTRACT ALGEBRA I  
MTH 110 1, MATHEMATICS IN SOCIETY-HONORS  
MTH 589 1, THESIS RESEARCH

## **PROFESSIONAL SERVICE OR VOLUNTEER WORK**

Showcase Saturday, Representative from Mathematics and Statistics, approximately 3 hours spent for the year.

Outreach Committee, Member. (September 1, 2008 - Present).

Activity Description

Members of the Outreach Committee discuss and implement a new plan of action for recruitment and retention of students to our department.

We visited local schools to spur interest in mathematics. We delivered an online college algebra course to 5 local rural school districts. Seven of the 27 students who took the online course enrolled at SFA in Fall 2009.

Convocation Committee, Member. (September 1, 2007 - Present).

Activity Description

Members of the Convocation Committee plan a semiannual gathering of our majors.

Responsibilities include securing a speaker, arranging food, and publicizing.

Graduate Student Mentor, Mentor, approximately 10 hours spent for the year. (September 1, 2009 - August 31, 2010).

Activity Description

I made classroom visits and had office discussions about teaching and responsibilities as a graduate student with Meghan Ward.

Placement Committee, Chairperson, approximately 20 hours spent for the year. (September 1, 2009 - August 31, 2010).

Activity Description

We proctor exams and have about monthly meetings.

Our committee continues to refine the placement system by establishing a flow chart and protocol for testing.

ETEX Dolphin Swim Team, Nacogdoches, TX. Timer, Computer or Console operator, approximately 40 hours spent for the year, (August 2008 - September 2009).

Activity Description

I timed, ran a timer console, or operated the computer for a local club swim team and Nacogdoches High School swim team during meets.