101st Annual Meeting of MAA Texas: Morning Breakout Sessions – UNDERGRADUATE

Zoom Link will be emailed to all registrants

Room 1 *Moderator: Bill Ardis*	**Algebra, Number Theory, Discrete Mathematics**
09:45 – 10:00 am	My Journey to Find a Uniformly Most Reliable Graph **Daniël Du Preez,** The University of Texas at Tyler
10:00 – 10:15 am	The Tale of Mickey The Tricky Mouse **Nicholas Phan**, St. Edward's University
10:15 – 10:30 am	Counting Constellations in Tarot Card Readings **Stella Cunningham**, St. Edward's Univeristy
10:30 – 10:45 am	Unfolding Platonic Solids **Taylor Huey,** St. Edward's University

Room 2 *Moderator: K Thapa Magar*	**Applied Mathematics, Probability and Statistics**
09:45 – 10:00 am	Revenue Play by Play **Ca Shunn Harris, Abram Garza,** Texas A&M University - Texarkana
10:00 – 10:15 am	Bootstrap-based Error Rate Estimator for the Linear Discriminant function **Nicholas C. Taylor,** University of Mary Hardin-Baylor
10:15 – 10:30 am	The M2 Money Supply, the Economy, and the National Debt: A Mathematical Approach **Brad Crayne And Xavier Williams**, Texas A&M University - Texarkana

Room 3 *Moderator: Jason Snyder*	**Education, History and Art, Geometry**
09:45 – 10:00 am	Component-Preserving Amphicheiral Links **Laufey Jörgensdóttir**, St. Edward's University
10:00 – 10:15 am	Polygons vs Circles **Donna E. Robles**, University of Texas at San Antonio
10:15 – 10:30 am	Shifting the Focus **Quan Q. Nguyen,** University of Texas at Austin/Mathhappens Foundation

Room 4 *Moderator: David Rice*	**Analysis and Applied Math**
09:45 – 10:00 am	Dynamics of Eastern Equine Encephalitis Infection Rates: A Mathematical Approach **Aurod Ounsinegad**, Tarleton State University
10:00 – 10:15 am	A population model of Pieris Brassicae using differential equation **Dashon Mitchell**, Tarleton State University
10:15 – 10:30 am	Parallel Algorithms for Background Subtraction **Ethan Reaves**, Tarleton State University
10:30 – 10:45 am	Binary Star Mass Transfer Model with NVIDIA GPUs **Clayton Tobin**, Tarleton State University

101st Annual Meeting of MAA Texas: Afternoon Breakout Sessions – FACULTY/GRADUATE

Zoom Link will be emailed to all registrants

Room 1 *Moderator: Dustin Potter*	**Algebra, Number Theory, Discrete Mathematics**
2:00 – 2:15 pm	Using Apolar Invariants to Find Roots of Polynomials **Dr. Kris Jorgenson**, Sul Ross State University
2:15 – 2:30 pm	Identities for Powers of Fibonacci Numbers **Eduardo Chappa**, New Mexico State University Carlsbad
2:30 – 2:45 pm	Isomorphism Classes of Graded Skew Clifford Algebras **Richard Chandler**, University Of North Texas At Dallas
2:45 – 3:00 pm	Anomalous By Association **Nicholas Petela**, Tarleton State University

Room 2 *Moderator: Shellene Foster*	**Applied Mathematics, Probability and Statistics**
2:00 – 2:15 pm	Markov Chains: Random Walks as Choreography **Christopher A. Arthur**, Collin College
2:15 – 2:30 pm	Gamma function approximations for computing closed-form Bayes factors **Tom Faulkenberry**, Tarleton State University
2:30 – 2:45 pm	Residential Segregation Patterns and Single-Member Voting Districts **Will Hager And Dr. Betseygail Rand**, Texas Lutheran University

Room 3 *Moderator: Chip Galloway*	**Education, History and Art, Geometry**
2:00 – 2:15 pm	Making Connections and Building Community in an Online Environment **Dr. Eileen Faulkenberry**, Tarleton State University
2:15 – 2:30 pm	A Framework for Fostering Positive Math and Math Teacher Self-Efficacy in Math Education **Melissa Eubank**, Baylor University and Tarleton State University
2:30 – 2:45 pm	Investigating Varignon's Problems with GeoGebra **Dr José N. Contreras**, Ball State University
2:45 – 3:00 pm	Moving Average for Longitudinal Data in Education **Dr. Tingxiu Wang**, Texas A&M University-Commerce

Room 4 *Moderator: Bill Ardis*	**Analysis and Applied Math**
2:00 – 2:15 pm	Concavity and Orthogonality at Saddle Points **Dr. John Quintanilla**, University of North Texas
2:15 – 2:30 pm	Undergraduate Capstone Project on One Dimensional Flow Problem **Dr. Arati Nanda Pati**, University of St. Thomas
2:30 – 2:45 pm	What are N Functions and Why are They Interesting **Dr. Joseph Iaia**, University of North Texas
2:45 – 3:00 pm	Second-Order Modified Nonstandard Finite Difference (NSFD) methods for autonomous differential equations **Madhu Gupta**, University of Texas at Arlington