

End-of-Semester Celebration of Mathematics and Statistics

Organized by the Mathematics and Statistics Club at Georgia State

Friday April 12, 10:45am-2:45pm, 796 COE (light lunch will be provided)

Presentation of Student Awards (12:50 pm):

The Winners of the Ninth Annual Undergraduate Mathematics Competition

RIMMES presentations:

10:45-10:55am

Adil Virani: *Probability distributions for targeting performances for a neural growth model*, Mentor: Dr. Remus Osan

11:00--11:10pm

Deiverick F. Brown-Burnett: *Building Technology Supported Environments for Teaching Undergraduate Mathematics Courses to Early Childhood/Middle Level Prospective Teachers*, Mentor: Dr. Margo Alexander

11:15--11:25am

Kinin Kone: *Modeling Mathematical Structures in Indigenous 3D Artifacts*, Mentor: Dr. Yi Jiang

11:30—11:40pm

Sarah Deigna: *Math and Art: Describing Indigenous Cultures*, Mentor: Dr. Yi Jiang

11:45-11:55am

Jessica Gordon: *The zero-forcing numbers of signed Mobius Ladders*,
Mentor: Dr. Marina Arav and Hein van der Holst

12:00-12:10pm

Yawa Adonsou: *A better estimation of the confidence interval for Youden index*,
Mentor: Dr. Jeff Qin

12:15-12:25pm

Russell Jeter: *Stochastically evolving dynamical network*, Mentor: Dr. Igor Belykh

12:30-1:00pm: Light Lunch and Presentation of Awards for the Winners of the Annual Undergraduate Math Competition

1:00--1:10pm

John Hull: *Restrictions of polynomial functions over finite fields*, Mentor: Dr. Florian Enescu

1:15—1:25pm

Jonathan Spencer: *Testing cognitive theories by creating a pattern-based probabilistic algorithm for melody and rhythm in jazz improvisation*, Mentor: Dr. Mariana Montiel

1:30--1:40pm Discussion time

1:45--1:55pm

Samuel Dillow: *The zero-forcing numbers of signed complete graphs using sign pattern matrices*, Mentor: Dr. Marina Arav and Hein van der Holst

2:00--2:10pm

Victor Bailey: *Some 4 by 4 sign pattern matrices that require 4 distinct eigenvalues*,
Mentor: Dr. Jason Li

2:15--2:25pm

Danni Liu: *Statistical analyses of optical imaging data of the olfactory receptor neurons*, Mentor: Dr. Remus Osan

2:30--2:40pm

Aurelie Akossi *Using Rubato Composer's Functorial Approach to generate a multi-instrument composition*,
Mentor Dr. Mariana Montiel