



2024 MAA MathFest
Undergraduate Student Poster Session
Outstanding Posters

1, Compositional Roots of Functions

Ruby Harris, Mark Lee, & Daniel Bishop

11, Applications of Google's PageRank Algorithm: Predicting Tennis Outcomes

Natalie Dando

13, Cost Benefit Analysis of Yearly Mammograms: A Social Justice Approach to Individualized Protocols

DiAndra Tensley

14, Prediction of a Fast-Changing Stochastic Process with Application to Short-Term Forecast of a Pandemic

Alan Cheng

27, Divisor Functions: Train-like Structure and Density Properties

Evelina Dubovski

30, Data Augmentation Techniques for Real Tabular Data

Kate Huisinga & Ellee Mortensen

33, Solving the Bubble Path Problem

Maxwell Goskie

44, Multi-Dimensional Graphs Modeling Self-Assembling DNA Nanostructures

Katelyn Buck

48, Graphs in Polynomial Parameter Space

Forrest Hilton

49, Mathematical Modeling of Immune Response to SARS-CoV-2

Ayesh Awad

53, The Hunt for New Number Sequences in the Union of Path and Cycle Graphs

Bridget Rozema

56, Mathematically Modeling Recurrent C_{\sim} difficile Infections in Long-Term Care Facilities

Zachary Campbell

61, Intervals in the weak order on 132 and 312 pattern avoiding permutations

Evan Calderon

65, Anti-van der Waerden Numbers of Tadpole Graphs and Their Products

John Caceres, Jeremiah Ellis, & Edgar Yak-De Padua

71, Comparing Methods and Optimizations of Opportunistic Risk-Limiting Audits

Rohith Raghavan & Eric Chen

72, The Truncated Octahedral Conjecture

Lark Song

86, Hyperbolicity of the Curve Graph of the n -Punctured Sphere

Ava Ostrem & Mandy Unterhalter

90, Homomorphisms between Fundamental Groups and RAGGs

Stephanie Huang & Qianqian Wu

91, From Equations to Evolution: The Mathematics of Genomic Transformations

Nafisa Raisa