

2023 MAA MathFest Undergraduate Student Poster Session Honorable Mentions

13, Is Access Improved? Geospatial Analyses of Virtual and In-Person Down Syndrome Specialty Programs

Jace Howard, Kayla Jensen, & Paul Llamas

14, Mathematically Modeling a Nonlinear, Passive Acoustic Filter Bjorn Ludwig

15, Reintroducing Native Plants and Seabird Restoration on the Island of Kaho'olawe Mandarine Chyba Rabeendran

17, Demographic Diversity and Political Districting

Jason Bruder

18, Mathematical Modeling for Honeybee Colony Populations
Iris Xue, David Johnson, & Georgia Gibson
23, A Mathematical Journey of the Immune System's Effect on COVID-19 Replication
Isaak Mouring
36, Understanding people's behavior during the COVID-19 pandemic from epidemic and
mobility data
Amira Gbagba & Sofia Iturbides
40, An Agent-Based Model of <i>C. difficile</i> Transmission in a Multi-Ward Hospital
Austin Kind, Ethan Jakubowski, Matthew Senese, Laila Mahrat, & Brittany Stephenson
43, Modeling the Effects of Temperature on Within-Mosquito Malaria Parasite Transitions
and Sporozoite Load
Alexander Diefes
47, Action Graphs for Catalan Sequences
Alison Cochran & Sarah Klanderman
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50, Counting Sibling Portraits

55, The Smoothed Decagon Conjecture

Lark Song & Sasha Sluis-Cremer

Forrest Hilton

64, Portfolio Optimization Using the Simplex Method
Emily Kappel
68, Tacos for Thought; Understanding Sets and Relations with Tacos
Lakrisha Berry
78, Adinkras as Origami
Arsh Chhabra, Xuehuai He, Elena O'Grady, Melinda Yang, & Cameron Thomas
82, An Algorithm Expressing a Prime Number 1 mod 4 as the Sum of Two Squares Using
Stern-Brocott Tree
Cuewon Kim
86, A motivated proof of the Bressoud-Göllnitz-Gordon identities
John Layne, Sam Marshall, & Emily Shambaugh
87, Generalized Alder-Type Partition Inequalities
Bryan Ducasse, Liam Armstrong, & Thomas Meyer
88, Abelian extensions arising from torsion points of elliptic curves
Alex Abrams, Tesfa Asmara, David Bonds, Aniyah Stephen, & Japeth Varlack

90, Convergence of Stochastic Gradient Ascent by Multithreading (Parallelization)

Jake Giguere

92, Al Consulting Project for CBEC comparing Naïve Bayes and Non-Naive Networks to Mitigate Limitations in Collected Data

Eli Hellmig & Bhakti Patel