MAA Outstanding Student Paper Session Presentation Awards:

Presenters	Title
Caleb Holleman *(Taylor University)*	Binormal, Complex Symmetric Operators
Madison Cox *(University of Michigan)*	Mathematically Modeling the Impact of Invasive Crayfish Removal on Oncorhynchus Mykiss Population Dynamics in Topanga Creek
Chance Hamilton *(Florida Gulf Coast University)*	Machine Learning, Waldo, and the Train of Thought
Sophie Mancini and Jacob Van Hook *(James Madison University and Penn State University)*	Anti-Games on Steiner Triple Systems
Carter Smith *(University of Texas at Austin)*	An Algebraic Sum of Divisors Function and its Applications
Zack Miller and Mary Lib Saine *(Furman University)*	Modeling Cilia-Driven Pulmonary Fluid Flow
Alexander Black *(Hamilton College)*	Modeling Relationship Function in Social Networks
Elanor West and Annie Xie *(John Hopkins University)*	Rendezvous Search on the Edges of Platonic Solids
Thomas G. Marge *(John Hopkins University)*	Bounding the Domination Ratio of Infinite Periodic Graphs
Michael Barnett, Obinna Ukogu, Jack Wesley, and Hui Xu *(Amherst College)*	Quantum Jacobi Forms
Sanjay A. Raman and Carl B. Schildkraut *(Lakeside School, Seattle)*	Pair Correlations in Uniform Countable Sets

Jessica Linton *(Benedictine College)*	Modeling Biological Invasion
Devyn C. Rice *(Texas A&M University)*	Student's Experiences in STEM Summer Camp
Aditya Sivakumar *(Beaverton High School)*	A Geometrical Analysis of Harmony and Voice Leading in Music Using Quotient Orbifolds
Collin C. Smith *(Cornell College)*	Euler's Tonnetz and Mary's Goat: Algorithmic Music Composition
Chineze Egbunike Christopher, Robert J. Dicks, Gina Marie Ferolito, Joseph M. Sauder, and Danika Keala Van Niel *(Purdue University, Emory University, Wellesley College,* *Pontifical Catholic University of Puerto Rico, Syracuse University)*	Cartographic Groups of Regular Toroidal Graphs
Ethan Sciamma, Henry Reichard, Yuxuan Ke, and David Brandfonbrenner *(Yale University)*	Generators for Jacobians of Random Graphs
Sean Haight and Quinn Minnich *(Western Washington University and Millersville University)*	Four Equal Circles on a Flat Klein Bottle
Qimeng Yu and Peter Illig *(Carleton College)*	Automated Jigsaw Puzzle Assembly and Invariant Signatures
Alois Cerbu, Luke Peilen, and Andrew Salmon *(Yale University)*	Topology of Tropical Moduli Spaces of Curves
Milo Brandt, Catherine Lee, and Michelle Jones *(Yale University)*	Incidence Geometry in the Tropical Plane
Kempton Albee and Eric Roon *(Metro State University)*	Irreducible Characters and Their Restrictions to Subgroups
Jeffrey Tumminia *(New York City College of Technology)*	Decryption using Monte Carlo Markov Chains

Hannah Pieper and Emily Dautenhahn *(Oberlin College and University of Kentucky)*	Raney Objects: A Generalization of Catalan Sets
Hassan Naveed *(University of Richmond)*	Network Economics: Diffusion of Innovations
Santana Afton and Samuel Freedman *(College of William and Mary, University of Michigan)*	Generating Mapping Class Groups of Infinite-type Surfaces
Gabrielle Moss *(John Hopkins University)*	Percolation Threshold of Graph 41
Connor Halleck-Dube, Elaine Hou, and Daniel Gerhenson *(Yale University)*	Hassett Chamber Decomposition of M_0,n and Linear Threshold Functions
Yandi Wu *(University of California, Berkeley)*	Dynamics of Surface Homeomorphisms
Katherine T. Arneson, Jason W. Bruce, and Alexandra I. Embry *(St. Olaf College, University of Rochester, Indiana University)*	On the Properties of k-th-Order Fibonacci-like Polynomials
Renee Swischuk *(Texas A&M University)*	A Machine Learning Approach to Aircraft Sensor Error Detection and Correction