

Special Named Awards:

Andersen Award from BioSIGMAA:

Taylor Rink (Hope College) for *One Bird, Two Bird? Red Bird, Blue Bird? Analyzing Bird Songs using Wavelets, Image Processing, and Neural Networks*

SIGMAA EM award:

Caryn Willis (Indiana Wesleyan) for *An Extension of the Hassell-Comins Model for Two Competing Species*

SIAM award:

Daniel Harper (North Carolina State University) and Brianna King (Grand Valley State University) for *Dimension Reduction Techniques for Survival Analysis*

MAA Outstanding Presentation Awards:

Presenters (school)	Title
Leah Seader (California University of Pennsylvania)	Open Problem of Fibonacci
Jonathan Gerhard (James Madison University)	Conjugacy Classes of $\mathrm{GSp}(6,n)$ and an Application to Abelian Varieties
Nicholas Wawrykov (Yale University), Connor Halleck-Dube (Yale University), and Yuxing Jocelyn Wang (Yale University)	Simplicial Complexes and Effective Divisors of $\overline{M}_{0,n}$
Victoria Davis (University of North Alabama)	3D Printing in the Mathematics Classroom
Amanda Akin (Lee University) and Allison Bernhard (Lee University)	Prospective Teachers and Proof Scheme
Joshua Bussiere (McDaniel College)	Bounds on the Hausdorff Dimension of Fibonacci Word Fractals with Overlap
Danial Wentland (University of Wisconsin Stevens Point)	A Search for a Bijection for Two Sets of Tableau

Meryn Zeigler (University of Texas)	Search in Modern Perfect Numbers
Noah Watson (James Madison University)	A Computational Investigation of Large Gaps in Contingency Tables
Stanislav Atanasov (Yale University)	Combinatorial Brill-Noether Theory
Sirui Wang (Cornell University)	Estimating Networks of Specialized Knowledge in a Tech Economy
Blake Schildauer (McDaniel College) and Chung Truong (McDaniel College)	Sums of Quaternion Cubes
Austen James (Yale University)	Law of Iterated Logarithm in $G(n,p)$
Stephanie Loewen (Grand Valley State University) and Tristan Wells (Kansas State University)	Fuchsian Groups, Fundamental Domains, and Outer Billiards
Becca Rousseau (Taylor University) and Ruth Jansen (Taylor University)	Truncated Composition Operators
Nathan Mehlhop (Texas A&M University)	Cyclic Resultants and Approximations of Amoebas
Katharine Howard (Benedictine University)	Using the Shingles Vaccine to Stop the Spread of Chicken Pox
Quinton Neville (St. Olaf College)	Feedback-Mediated Dynamics in a Model of a Long-Looped Nephron
Aaron Chen (Cornell University)	Neural Codes: Convexity and Computability
Shruthi Sridhar (Cornell University) and Brandon Shapiro (Brandeis University)	The Geometry of Knots
Rachel Barnett (Rutgers University) and Rose Johnson-Leiva (Quest University Canada)	Graph Embeddings on a 3-Torus
Cory Saunders (Haverford College)	Do p -adic Methods Help for Integer Fewnomial Bounds?
Lucy Yang (University of Manitoba)	A Complexity Bound for the Real Zero Sets of n -variate $(n+4)$ -nomials.