

Schedule for the Spring 2025 MAA MD-DC-VA Section Meeting at George Mason University

Parking is in Lot A both days. Most events Friday are in the Bistro, at the bottom of Johnson Center (#30 on the map). The “South Plaza” is the easiest entrance since it is right near the rooms. Saturday events are in Enterprise Hall (#17 on the map). Registration will still be in the Johnson Center Bistro.

Friday, April 11

Workshop	4:00-6:00	JC Cinema
<i>Integrating 3D Printing into Mathematics Classroom: A Hands-On Workshop</i> Rebin Muhammad (on behalf of MAA MD-DC-VA COMMIT) Montgomery College		
Registration	6:00-7:00	JC Bistro
Reception	6:00-7:00	JC Bistro
Welcome	7:00	JC Bistro
Banquet	7:00-8:00	JC Bistro
Banquet Talk	8:00-9:00	JC Bistro
<i>We Integrate Differentials, Not Functions</i> Eugene Boman & Robert Rogers Pennsylvania State University, Harrisburg & SUNY Fredonia		

Saturday, April 12

Registration	8:00-12:00	JC Bistro
Breakfast	8:00-9:00	JC Bistro
Coffee/Tea/Water	8:00-12:00	JC Bistro
MAA Book Sale	8:30-3:30	Enterprise Lobby
Contributed Talk Session 1	8:20-8:40	
<i>Pre- and Post-COVID Relationships between Crime and Travel Patterns in Baltimore City</i> (student talk) Jay Calkins Towson University	8:20-8:40	Enterprise 173
<i>Obsidian for Educators</i> Pallavi Bhale Montgomery College	8:20-8:40	Enterprise 174
<i>Modeling Acoustic Loads on Rockets at Takeoff</i> (student talk) Joseph Samson Ungerleider, Valentina Paz Soldan Viscarra James Madison University	8:20-8:40	Enterprise 274
<i>A Cutthroat Game of Red-Blue Cherries</i> Hannah Marron St. Mary's College of Maryland	8:20-8:40	Enterprise 275
<i>Introduction to Mathematics Applications: Optimization and Mathematical Modeling</i> (student talk) Chloe Garnish St. Mary's College of Maryland	8:20-8:40	Enterprise 276
<i>Hamilton and the Quaternions: A Case Study in Mathematical Creativity</i> Jeff Suzuki Brooklyn College CUNY	8:20-8:40	Enterprise 277
Contributed Talk Session 2	8:45-9:05	
<i>Modeling Crime on Baltimore City Road Network</i> (student talk) Natalie Brownlowe, Jeffrey Bowerman Towson University	8:45-9:05	Enterprise 173
<i>Designing Web-based Mathematical Games to Enhance Understanding and Enjoyment</i> Mona Hajghassem, Rebin Muhammad, Camilo Diaz Montgomery College	8:45-9:05	Enterprise 174

<i>Immune cell dynamics during a flu infection</i> (student talk) Hai-Hsin Huang Virginia Military Institute	8:45-9:05	Enterprise 274
<i>Some Properties of Currie's Curious Function</i> Dan Kalman American University (ret)	8:45-9:05	Enterprise 275
<i>A Radial Basis Function - Finite Difference Approach for Inverse Heat Conductivity Problems</i> Nadun Kulasekera Mudiyansele Mount St Mary's University	8:45-9:05	Enterprise 276
<i>Flood Warning! What Combinatorics and Algebra Tell us About Graphs</i> (student talk) Jackson Wills, Trey Wilhoit Roanoke College	8:45-9:05	Enterprise 277
Contributed Talk Session 3	9:10-9:30	
<i>Utilizing Kernel Density Estimations and Principal Component Analysis to analyze crime, population, and travel patterns.</i> (student talk) Alex Holtzman Towson University	9:10-9:30	Enterprise 173
<i>Precalculus Teaching Squares</i> Deepa Ramakrishnan, Frederick Community College Spencer Hamblen, McDaniel College	9:10-9:30	Enterprise 174
<i>A Quantitative Schlieren Image Investigation of the Coanda Flare Jet Boundary</i> (student talk) Josiah Walker James Madison University	9:10-9:30	Enterprise 274
<i>The space of shape of rank 3 unit lattices in certain number fields</i> Sara Chari St. Mary's College of Maryland	9:10-9:30	Enterprise 275
<i>MINIMUM QUANTUM DEGREES WITH MAYA DIAGRAMS</i> Ryan Shifler Salisbury University	9:10-9:30	Enterprise 276
<i>On the Quantum Parameter in the Quantum Cohomology of a Family of Odd Symplectic Partial Flag Varieties</i> (student talk) Caleb Shank Salisbury University	9:10-9:30	Enterprise 277

Welcome	9:45	Enterprise 178
Invited Address	9:45-10:45	Enterprise 178
<i>Beading and Folding and Sewing, Oh My! An Adventure in the Marvelous Land of Map Coloring</i> Eve Torrence Randolph Macon College		
Meeting of the General Membership	11:00-12:00	Enterprise 178
Radical Dash	11:00-12:00	Enterprise Lobby
Lunch	12:00-1:00	Enterprise Lobby
Section Representative Drop-In Session (Maggie Rahmoeller)	12:00-1:00	Enterprise Lobby
Jeopardy	1:05-2:05	Enterprise 178
Teaching Exchange	1:05-2:05	Enterprise Lobby
Welcome	2:15	Enterprise 178
Invited Address	2:15-3:15	Enterprise 178
<i>Fishes Go MOO: investigating an interesting convergence in fish biomechanics through math modeling</i> Nicholas Battista The College of New Jersey		
Refreshments	3:20-3:30	Enterprise Lobby
Undergraduate Poster Session	3:30-4:15	Enterprise Lobby
Contributed Talk Session 4	3:30-3:50	
<i>Crime Intensity in Baltimore City: Calculating, Graphing, and Re-lating to Travel Patterns</i> (student talk) Timothy DeLloyd Towson University	3:30-3:50	Enterprise 173
<i>Innovative Use of Technology in Textbooks: Case in Point - ODEs</i> Stephen Saperstone, GMU Max Saperstone, Steampunk Inc.	3:30-3:50	Enterprise 174
<i>Data and Statistics in Basketball</i> (student talk) Gabby Krystofiak Shenandoah University	3:30-3:50	Enterprise 274

<i>Directed tilings of the Euclidean and hyperbolic plane</i> Brandon Shapiro University of Virginia	3:30-3:50	Enterprise 275
<i>5 Levels of Machine Learning Examples for Layfolk through Linear Algebraists</i> Katherine Socha Northeastern University Arlington	3:30-3:50	Enterprise 276
<i>Orders of Quaternion Algebras and their Properties</i> (student talk) Henry Pratt St. Mary's College of Maryland	3:30-3:50	Enterprise 277
Contributed Talk Session 5	3:55-4:15	
<i>MCMC diagnostics presented in interactive Quarto slides</i> Deepak Bastola Salisbury University	3:55-4:15	Enterprise 173
<i>Mathemalchemy: Student Experiences at the National Academy of Sciences</i> Alice Petillo Marymount University	3:55-4:15	Enterprise 174
<i>Air Force's Combat Logistics: Responding to Threats in the Pacific Theater</i> (student talk) Ben Bierstine Virginia Military Institute	3:55-4:15	Enterprise 274
<i>Lattices in Type B</i> (student talk) Stephen Barr Salisbury University	3:55-4:15	Enterprise 275
<i>Limit Properties of Averages of nth Iterates</i> Kubilay Dagtoros, Sujun Pant Norfolk State University	3:55-4:15	Enterprise 276
<i>Quantum Combinatorial Game Extensions</i> (student talk) William Lambert St. Mary's College of Maryland	3:55-4:15	Enterprise 277

Contributed Talk Session 6	4:20-4:40	
<i>Parameter Estimation with Dense, Convolutional, and Autoencoder Neural Networks Applied to the FitzHugh–Nagumo ODE</i> (student talk) Aidan Chadha Virginia Tech	4:20-4:40	Enterprise 173
<i>Playing Minecraft like a Mathematician!</i> Michael Weselcouch Roanoke College	4:20-4:40	Enterprise 174
<i>Application of Hof’s Dynamic Stability Model Through the Lens of a Countermovement Push-Up Trial: Derivation and Preliminary Results</i> (student talk) Rebecca Go Stevenson University	4:20-4:40	Enterprise 274
<i>Symmetry in graphs: bicoset digraphs</i> Rachel Barber Hood College	4:20-4:40	Enterprise 275
<i>Dual Necessary Conditions for Minima of Nonsmooth Scalar Optimization Problems with Inequality Constraints</i> Elena Constantin University of Pittsburgh at Johnstown	4:20-4:40	Enterprise 276
<i>Stitching pants with stripes: Generating nested cobordisms</i> Shruthi Sridhar Shapiro University of Richmond	4:20-4:40	Enterprise 277
Student Awards Ceremony	4:50-5:00	Enterprise 178