ICTCM 2024
At the Edge of Math's Future

Pearson

BREAKFAST & KEYNOTE ADDRESS	PARTNER SHOWCASE
8:00–9:15 a.m.	9:00 a.m.–4:00 p.m.

SESSIONS: Friday, March 8

	9:30–10:00 a.m.	10:15–10:45 a.m.	11:00–11:30 a.m.	12:30–1:00 p.m.	1:15–1:45 p.m.	2:00–2:30 p.m.	3:00–3:30 p.m.	3:45–4:15 p.m.
Acadian 1	Teaching Methods & Course Formats Flipped Classrooms and Supplemental Instruction: Mathematics Engagement Through Multiple Modalities Clayton Kitchings, Susanna Poston, Charity Hefner, Morgan Daniel & Leslie Davidson-Rossier *University of North Georgia*	Teaching Methods & Course Formats Success Module Strategy in General Education Math Courses Rachid Ait Maalem Lahcen & Ram Mohapatra *Central Florida University*	Before Calculus Spreadsheets for Quantitative Reasoning: An Excel-lent Way to Engage Students Eric Gaze *Bowdoin College*	Teaching Methods & Course Formats Leveraging the Full Power of Video Instruction Jason Gregersen *Michigan Technological University*	Before Calculus Popular Hands-On Ways to Visualize Infinity with Students Elayn Martin Gay *University of New Orleans*	Before Calculus Patching Those Algebra Holes with Coreq Labs and Content Wendy Traynor *Emory & Henry College*	Calculus Teaching and Learning Calculus II with the TI Navigator System and TI-Nspire CX CAS Christal Schoen *Stephen F. Austin State University*	Beyond Calculus A GeoGebra Illustrator for Eigenvalues and Eigenvectors Part II Michael Warren *Tarleton State University*
Acadian 2	Corequisites/Pathways An Alternate Pathway to Success Kimberly Walters *Mississippi State University*	Corequisites/Pathways Help! Corequisite Courses Include Students Underprepared for Coreq Material Jamie Blair, *Orange Coast College* Jennifer Crawford, *Normandale Community College* Anne Fischer, *Tulsa Community College*	Teaching Methods & Course Formats Exploiting Modern Tools to Streamline Lesson Preparation Si Park *United States Military Academy*	Statistics Introductory Statistics Student Engagement with StatCrunch Laurelin Waites *University of South Alabama*	Teaching Methods & Course Formats Are You Tired of the Excuses? Donna Densmore *Bossier Parish Community College*	Data Science Steps Towards Data Science Rob Gould *UCLA*	Beyond Calculus Combining Video Lessons and the Thayer Method in Advanced Mathematics Ryan Allaire *United States Military Academy*	Beyond Calculus zMap and zCalc: Tools to Enhance Complex Analysis Bert Wachsmuth *Seton Hall University*
Algiers A	AI in Higher Ed Math The Freehand Grader - Does it Reduce AI Math Solver Usage? Does it Improve Performance? Robert Strozak *Old Dominion University*	AI in Higher Ed Math Some of the Undergraduate Mathematics Powering Artificial Intelligence Andrew Lee & Frank Wattenberg *United States Military Academy*	AI in Higher Ed Math Concept Visualization Leveraging Generative AI Joseph Maxwell *United States Military Academy*	AI in Higher Ed Math AI Project for Preservice Teachers Barbara Boschmans *Northern Arizona University*	AI in Higher Ed Math The Future of Education: Exploring the Role of AI in Teaching Brian Rickard *University of Arkansas*	AI in Higher Ed Math Students Use of ChatGPT in a Linear Algebra Class Andrew Lee *United States Military Academy*	AI in Higher Ed Math Lightning Talks	AI in Higher Ed Math Building Domain Specific Derivatives of ChatGPT and Future Projects
Algiers B	Data Science Data Sets on Climate Change using StatCrunch Ryan Hedstrom *University of New England*	Beyond Calculus N-body Simulation of Binary Star Mass Transfer Using NVIDIA GPUs Bryant Wyatt *Tarleton State University*	Calculus Empowering Students with Responsibility Via Flipping Calculus Paula Stickles *Millikin University*	Beyond Calculus Computer Aided Mathematics in Ordinary Differential Equation Peter White *Tarleton State University*	Before Calculus Tutor and Data Management of Hybrid Delivery Precalculus Math Lab Sheri Goings *Louisiana State University*	Math For Future Teachers Understanding Solids Using Technology Barbara Johnson & Kristen Weddington *Indiana University – Purdue University Indianapolis*	Math For Future Teachers Fibonacci Gems To Foster Engagement In A Preservice Teacher Course Jay Schiffman *Rowan University (emeritus)*	Math For Future Teachers Tech-Enhanced Mathematics for EC-6 Preservice Teachers - No Calculators Allowed! Kathy Smith & Beth Riggs *Tarleton State University*
Algiers C	Teaching Methods & Course Formats A Great Time-Saving App on the TI-84 Plus CE Laora Brizendine *Wingate University*	Before Calculus Supporting Geometric-Thinking and Math Modeling through 3D Printing Technology Reuben Asempapa *Penn State Harrisburg*	Teaching Methods & Course Formats Navigating the Free and Open Textbook Ecosystem Mike May *Saint Louis University*	Teaching Methods & Course Formats Creating Math Videos in a SNAP! Kristina Sampson *Lone Star College - Cy Fair*	Teaching Methods & Course Formats A Tech Wish or Two – Let's Chat! Mari Menard *Lone Star College - Kingwood*	Teaching Methods & Course Formats How to Create Accessible Documents Using Latex and MathML Jose Villalobos *Compton Community College*	Teaching Methods & Course Formats Educational Burnout! Are You or Your Students Burnt Out? What Are You Doing About It? Hope Essien & Evans Alexis *Malcolm X College*	Calculus Easy Mathematical Polling Nora Strasser *Friends University*
Poydras	Teaching Methods & Course Formats Want Hours Back in Your Life? Let's Talk about Grading! Bonnie Rosenblatt *Pearson*	Corequisites/Pathways Teaching PreCalculus with a Corequisite vs. Standalone Prerequisite Laurelin Waites & Tonya Darby *University of South Alabama*	Calculus What is this Business About Calculus? Kimberly Walters *Mississippi State University*	Teaching Methods & Course Formats A Generalization of the Isis Problem Nick Haverhals *St. Cloud University*	Math in the Real World Statistics Should Be Applied: Applications to Sports Reza Abbasian & John Sieben *Texas Lutheran University*	Teaching Methods & Course Formats It's NOT Cheating, It's Collaboration Rodica Cazacu *Georgia College & State University*	Teaching Methods & Course Formats Technology Activities in College Mathematics Courses Brad Davis *Pensacola Christian College*	Teaching Methods & Course Formats How Software Can Transform the Virtual Math Classroom into a Thinking Classroom Karishma Punwani *Maplesoft*

CONTRIBUTED SESSIONS: Friday, March 8 (starting at 1:00pm, 30-minute sessions will be in this room)

	10:00–10:15 a.m.	10:30–10:45 a.m.	11:00–11:15 a.m.	11:30–11:45 a.m.	12:30–12:45 p.m.	1:15–1:45 p.m.	2:00–2:30 p.m.	2:45–3:15 p.m.
Frenchmen 2						Teaching Methods & Course Formats Easy, Effective, and Efficient Tips for Improving Online Course Development and Management Sharleen McCarroll *American River College*	Before Calculus Assessment Analysis of Graphing Linear Equations on MyLab Math Erell Germia & Stefania Meza *Kean University*	
	OPTIMUM Interactions: Effective Online Mathematics Tutoring Nicole Infante & Keith Gallagher *University of Nebraska at Omaha* Debora Moore-Russo *University of Oklahoma*	Document vs. Interactive Syllabus Kimberly Bennekin *Perimeter College at Georgia State University*	Mathematical Modeling and Analysis of Onchocerciasis Transmission with a Focus on Ivermectin Resistance Christopher Mitchell *Tarleton State University*		Homework by Choice: STEM-Focused and Personalized for First-Term Calculus Students Ala Alnaser *Florida Polytechnic University*			

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SESSIONS: Saturday, March 9

BREAKFAST & KEYNOTE ADDRESS	PARTNER SHOWCASE
8:00–9:00 a.m.	9:00 a.m.–1:00 p.m.

	9:00–9:30 a.m.	9:45–10:15 a.m.	10:30–11:00 a.m.	11:15–11:45 a.m.	12:45–1:15 p.m.	1:30–2:00 p.m.
Acadian 1	Statistics	Teaching Methods & Course Formats	Data Science	Statistics	Teaching Methods & Course Formats	Corequisites/Pathways
	Resampling on Your Phone Bernhard Klingenberg *New College Florida*	Easiest. Videos. Ever. Ilona Kletskin *Ontario Tech University*	General Education Data Science: Getting Students and Faculty Started with Data Science for All Hunter Glanz & Brennan Davis *California Polytechnic State University*	Multivariate Thinking in Introductory Statistics Michael Sullivan, III *Florida Southwestern College*	Academic Connection in a Post-Twitter World Rebecca Wong *West Valley College*	Creating and Implementing a Corequisite Support Course for College Algebra Stephanie Kurtz *Louisiana State University Baton Rouge*
Acadian 2	Teaching Methods & Course Formats	Math For Future Teachers		Beyond Calculus	Before Calculus	Corequisites/Pathways
	Getting Students to Read the Syllabus (or at least some of it!) Scott Demsky *Broward College*	Let's Get Our "Hands-On" Some Mathematics Using Virtual Manipulatives Nikita Patterson *Georgia State University – Perimeter College*		Using Dynamic Software to Model Non-Euclidean Geometry Brian Beaudrie *Northern Arizona University*	Desmos' Penny Circle Activity: Enhanced Analysis and Data Pooling Scott Sinex *Prince George's Community College*	Streamlining Instruction in Collegiate Mathematics Courses Catherine Putnam *Delta State University*
Algiers A	Beyond Calculus	Data Science	AI in Higher Ed Math	AI in Higher Ed Math	Calculus	Statistics
	Integrating OneNote and Geogebra in Differential Equations Revathi Narasimhan *Kean University*	Identifying Anomalous ER Claims Using Heirarchical Clustering and Random Forests Jesse Crawford *Tarleton State University*	AI-Driven Mastery: Assessing and Enhancing Student Learning in Statistics Brianna Hitt & Jessica Hauschild *United States Air Force Academy*	Creating Algorithmically-Created Exams Using AI and LaTeX's xfp Package Evan Siegel *Georgia State University*	Conceptual Development of Limits with Delta-Epsilon? Precisely! Beth Riggs and Nancy Summer *Tarleton State University*	Activities for Bootstrapping, Randomization, & Nonparametric Methods Carrie Grant *Flagler College*
Algiers B	Math in the Real World	Beyond Calculus	Statistics	Beyond Calculus	Corequisites/Pathways	Beyond Calculus
	Capturing Your Math Students' Attention with Smartphone Photography Frank Wattenberg *United States Military Academy (emeritus)*	Using R in Linear Algebra and Numerical Analysis Joe Stickles *Millikin University*	Full-Semester Statistics Project Carla Hill *Marist College*	Excursions With Recursion Erica Johnson *St. John Fisher College*	Post COVID-19: Building Students' Mathematics Confidence? Why? How? When? Ali Ahmad *Dallas College*	Parallel Computing Using R and a Raspberry Pi Cluster Keith Emmert *Tarleton State University*
Algiers C	Before Calculus	Teaching Methods & Course Formats	Teaching Methods & Course Formats	Teaching Methods & Course Formats	Teaching Methods & Course Formats	Before Calculus
	Calculator Use Before Formal Concept Acquisition Myrna La Rosa & Rodrigo Carraminana *Triton College*	Labs for Math? Using Mathematics to Challenge and Engage Students Jason Gregersen *Michigan Technological University*	Enhancing the Online College Algebra Learning Experience: Restructuring Online College Algebra Through a Quality Matters Rubric-Based Approach Gabi Booth *Daytona State College*	A Brief Introduction to Online Course Review Using Quality Matters Rubric Adam Chekour *University of Cincinnati - Blue Ash College*	Balancing the Books with OER Tanya Easley *Lone Star College - Kingwood*	Incorporating Programming into College Algebra Oscar Villalobos *Santiago Canyon College*

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PRE-CONFERENCE WORKSHOPS: Thursday, March 7

Join us for the NEW ICTCM 2024 Celebration, 5:00-7:00pm!
Live music, delicious food and great conversation.

	8:45–10:15 a.m.	10:30 a.m.–12:00 p.m.	1:00–2:30 p.m.
Pelican 1	MYLAB MATH CERTIFICATION		
	Beginners Session 1: New to MyLab? Let's start with the Basics! Bonnie Rosenblatt *Pearson*	Beginner Session 2: Beyond the Basics Bonnie Rosenblatt *Pearson*	Teaching & Learning with StatCrunch Bonnie Rosenblatt *Pearson*
Pelican 2	MYLAB MATH CERTIFICATION		
	Going Deep with MyLab Course Design Calandra Davis *Pearson*	Coreq on your mind? Calandra Davis *Pearson*	Making Sure Honesty is the Best Policy Calandra Davis *Pearson*
Acadian 1		MYLAB MATH CERTIFICATION	
		Wake up your students with Learning Catalytics! Aaron Warnock *Pearson*	Wake up your students with Learning Catalytics! Aaron Warnock *Pearson*

MINI-COURSES: March 8 & 9 DON'T MISS: Breakfast & Keynote Address 8:00 a.m.

	Friday, 10:00–11:30 a.m.	Friday, 12:30–2:00 p.m.	Friday, 2:30–4:00 p.m.
Pelican 1	Make Your Own DESMOS Applets for Calculus I Matthew Kennedy *Ivy Tech Community College*	Enhancing Interactive Learning: Introducing H5P and Smart Import, an AI Driven Content Creator Gabi Booth *Daytona State College*	Visualizing Calculus, Multivariable Calculus and Differential Equations Using CalcPlot3D Paul Seeburger *Monroe Community College*
Pelican 2	Mobile Apps for Learning and Teaching Statistics Bernhard Klingenberg *New College Florida*	Programming Precalculus with Python Lisa Kauffman *College of Southern Nevada*	Visualizing Precalculus and Calculus Aaron Warnock *Pearson*
	Saturday, 9:00–10:30 a.m.	**Saturday, 10:45–12:15 p.m.**	**Saturday, 12:45–2:15 p.m.**
Pelican 1	Building Community with Accountability and Equity in Online Statistics Alana Tuckey & Steven Tuckey *Jackson College*	Effectiveness of Personalized Homework in MyLab Math for College Intermediate Algebra Courses Kristen Weddington *Indiana University Purdue University*	Unlocking MyOpenMath: Building, Customizing, and Coding Your Courses! Eric Hutchinson *College of Southern Nevada*
	Saturday, 9:00–10:30 a.m.	**Saturday, 10:45–12:15 p.m.**	
Pelican 2	Using CalcPlot3D & Cura to 3D-Print Surfaces in Calculus and Beyond Paul Seeburger *Monroe Community College*	Using Excel For Modeling and Template Construction in Service Courses Mike May *Saint Louis University*	

CONTRIBUTED SESSIONS – VIRTUAL

Using GeoGebra Notes for Synchronous Online Mathematics and More Thomas Cooper *University of North Georgia*	Sea Ice or Floating Frozen "Sea Water": Comparing Extent vs. Area Scott Sinex *Prince George's Community College*	Unlocking Learning Potential: Rethinking Take-Home Mathematics Assessments in the Age of ChatGPT Angie Hodge-Zickerman & Cindy York *Northern Arizona University*	STEM vs. Non-STEM Corequisites: Lessons From Two States in Reform Kathy Almy *Rock Valley College*	A Brief Guide to Creating and Grading Assignments Using the Freehand Grader in MyLab Math Precious Andrew *University of New Mexico – Valencia Campus*
Using Instructor-Created Videos to Teach Mathematics for Elementary Teachers Thomas Klein *Marshall University*	The Right Mix: Customizing Pre-Calculus Course with OER and UDL Alison Bonner *Penn State University*	Relationships, Revisions & Reflections in Introductory Mathematics Courses Margaret Moore *University of Southern Maine*	Projects Orientated Approach in Teaching of ODEs and Linear Algebra Alexsei Talanov *University of Nevada – Las Vegas* Viktoria Savatorova *Central Connecticut State University*	Finding the Optimal Path Through a Weighted Grid Paul Bouthellier *University of Pittsburgh – Greensburg*