

AWM Events at MAA MathFest 2023

August 2 - 5, 2023, Tampa, FL

All times are Eastern Daylight Time

Registration and Full Schedule: <https://www.maa.org/meetings/mathfest>

AWM-MAA Etta Zuber Falconer Lecture

Tatiana Toro, *University of Washington,
Mathematical Sciences Research Institute
(MSRI)*



Geometry of Measures

Friday, August 4, 1:00 pm - 1:50 pm, Ballroom B/C

In this talk I will describe the question that has motivated my recent work in Geometry Measure Theory. We will explore whether the behavior of a measure on balls in different metrics provides information about the structure of the support of the measure. Along the way we will see how concepts learned in calculus play an important role in this area of mathematics.

The Association for Women in Mathematics and the Mathematical Association of America annually present the [Etta Zuber Falconer Lecture](#) to honor women who have made distinguished contributions to the mathematical sciences or mathematics education. While the lectures began with MathFest 1996, the title "Etta Zuber Falconer Lecture" was established in 2004 in memory of Falconer's profound vision and accomplishments in enhancing the movement of minorities and women into scientific careers. Etta Zuber Falconer herself (featured) was the 1995 winner of the [AWM Hay Award](#). Read Dr. Falconer's citation for this award and learn how to nominate women for to be the next Etta Zuber Falconer Lecturer at the AWM [website](#).



Mental Health in the Mathematics Community

Panel: Thursday, August 3, 8:00 am - 9:20 am

This panel brings to light the serious yet often overlooked topic of mental health within the mathematics community. Panelists, drawing on their professional and personal experiences, will discuss the prevalence and diversity of mental health concerns among educators and students at various levels, researchers, and mathematicians working in other settings. They will share strategies for coping as individuals, guidance for supporting others, and approaches to advocating for long-term solutions, all while actively working to reduce the associated stigma. We hope to encourage an open and empathetic dialogue to raise awareness, inspire positive change, and improve the well-being of our unique and vibrant community.

Panelists:

Vinodh Chellamuthu, Utah Tech University
Alicia Prieto Langerica, Youngstown State University
Jennifer Quinn, University of Washington Tacoma
Adriana Salerno, Bates College

Moderator:

Jeanette Shakalli, FUNDAPROMAT

AWM MathFest Committee Members: Shanna Dobson, California State University, Los Angeles; Janet Fierson, La Salle University; Emelie Kenney, Siena College; Buna Sambandham, Utah Tech University; Jeanette Shakalli, FUNDAPROMAT

MathArt: Classic and Novel Intersections of Mathematics and the Arts

CPS: Friday, August 4, 2:00 p.m. - 5:55 p.m., Room 120

MathArt is a dynamic and emerging interdisciplinary field whose aim is to amplify the variations in mathematical thinking. This amplification occurs by opening a dual conversation about what makes a mathematical result 'beautiful' and/or what mathematics and creativity have in common.

We welcome presentations investigating the intersections of mathematics and the arts and their engagements in any pedagogical setting. Some speakers may share their mathematical research or classroom experiences in more traditional pairings, such as with studio art or the performing arts. Others may present particularly 'beautiful' mathematics, perhaps taking the form of elegant proofs, visualizations created through programming, or new perspectives on existing results.

All interpretations of mathematics and the arts, including the physical and the conceptual, are welcome. We especially encourage undergraduate and graduate students to participate.

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Geometric Measure Theory, Harmonic Analysis, and Partial Differential Equations

IPS: Saturday, August 5, 2:00pm - 5:50pm, Room 118

Geometric measure theory provides a useful framework for studying the geometry and regularity of sets and measures in Euclidean and non-Euclidean settings, and has many useful applications to interesting problems in various fields of mathematics. This invited paper session aims to showcase the vibrant interactions between geometric measure theory, partial differential equations, and harmonic analysis. In this session, we will see exciting new developments at the interface of these areas, highlighting the ways in which they intertwine to produce deep insights.

Organizers: Max Goering, Max Planck Institute Leipzig; Anna Skorobogatova, Princeton University; Mariana Smit Vega Garcia, Western Washington University

AWM Student Chapter Awards - with Sweet Treats!

Friday, August 4, 8:00p.m., Ballroom D

Each year the AWM recognizes outstanding achievements in chapter activities among the AWM Student Chapters. Awards will be given in four categories: (1) community outreach; (2) funding and sustainability, (3) professional development, and (4) scientific excellence. These awards will be given out at the MAA Student Dessert Reception on Friday night. Come celebrate with us!

Other Events That May Be of Interest to AWM'ers

Check out the amazing lineup of [MAA Invited Addresses here](#), including ones from Mary Lou Zeeman, Sloan Evans Despeaux, Jason Brown, Caroline Colijn, Fern Hunt, Daniel Zaharopol, Tatiana Toro, Lara Pudwell, Ricardo Cortez, Susan Goldstine, Ron Buckmire, Kevin Knudson, and Jennifer Quinn!

IPS: Quantitative Justice: Incorporating Social Justice in Research, the Classroom, and More

Friday, August 4, 8:00 a.m. - 10:50 a.m., Ballroom A

Panel: The Future of Higher Education: Lessons from Florida

Wednesday, August 2, 3:50 p.m. – 4:50 p.m., Ballroom B/C

CPS: Improving DEI in Departments and Programs: Examples and Case Studies

Thursday, August 3, 8:00 a.m. - 10:35 a.m., Room 120

Town Hall: Just Mathematics: Creating Connections between Mathematics Content Areas & Social Justice

Friday, August 4, 2:30 p.m. - 3:20 p.m., Room 122/123

Visit the AWM Booth in the Exhibit Hall

Swing by the AWM booth, buy a t-shirt, learn about the many programs AWM has to offer and meet other AWM'ers! Are you interested in volunteering your time at the booth? Email ed.admin@awm-math.org to help out.