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COLORADO SCHOOL OF MINES



**APPLIED MATHEMATICS
& STATISTICS (AMS)**

E-NEWSLETTER

[AMS.MINES.EDU](https://ams.mines.edu)

AMS NEWSLETTER September 15, 2025

AMS WEEKLY SCHEDULE

Week of September 15 - 19

Monday 9/15/25

- AMS TeaTime – 3-4pm, CH156

Tuesday 9/16/25

- Mines Optimization and Deep Learning (MODL) Seminar – 1-2pm, SH105
- SWiM Math Focused Industry Skills - FAST Workshop – 5-6pm, CH143
- Career Day – 9-3pm, Student Recreation Center

Wednesday 9/17/25

- Career Day – 9-3pm, Student Recreation Center

Thursday 9/18/25

- Putnam Club – 2-3:30pm, CK140
- Math Bio Meeting – 4-5pm, CH156
- Math Club – 5-6pm, Stratton Commons

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- AMS Colloquium – 3-4pm, CH143 with Dr. Stephen Becker, CU Boulder

Upcoming Events

September

- Truth Values Play - September 25, 7:30-9pm, Bunker Auditorium

October

Homecoming 2025

- AMS Department Open House
 - Friday, October 3, 1-3pm
 - Refreshments provided.

Undergraduate Program Announcements

New - AWM-MfA Student Essay Contest

The Association for Women in Mathematics and Math for America cosponsor an essay contest each year for students in three categories: Grades 6-8, Grades 9-12, and Undergraduate. Contestants interview a woman or an individual from another underrepresented gender identity in a mathematical career about their life and work, and then they write and submit a short biographical essay based on their interview (500-1000 words). You can find out more at <https://awm-math.org/awards/student-essay-contest/>: contest rules, an FAQ, submission instructions, etc.

There are no restrictions on the nationality or gender of contestants.

The deadline is **February 1, 2026**. Submissions will open on **November 1, 2025** on <https://www.mathprograms.org/>.

GENERAL ANNOUNCEMENTS AND

New - Career Days

Fall 2025 Career Days are quickly approaching! This is a great opportunity for students of all class standings to make connections to support their future planning.

Career Days will be a two-day event split up by industry taking place on **Tuesday, September 16th and Wednesday, September 17th, 2025, 10am – 3pm each day (9-10am reserved for graduating students).**

Day 1 - Earth, Energy, and Environment (EEE): Tues., September 16th

Industries: Chemicals, Civil Engineering, Construction Engineering, Consulting, Energy - Alternative/Renewable, Energy - Oil & Gas, Environmental Resources/Water, Geotechnical Engineering, Government/Public Sector, Humanitarian/Non-Profits, Mining, Transportation & Logistics, Utilities/ Power

Day 2 – EEE + High Tech, Aerospace, and Futures: Wed., September 17th

Industries: Aerospace/Defense/Aviation, Automotive, Banking/Finance/Accounting, BioTech/BioEng-Pharmaceuticals, Civil Engineering, Construction Engineering, Education/Instruction/Administration, Electrical/Electrical Components, Government/Public Sector, Healthcare/Medical Equipment, High Tech/Information Technology, Legal/Law, Manufacturing/Machinery/Equipment, Metals, Military, Retail/Wholesale

Please note that different employers will participate each day, and students should plan to **attend both days** to meet with their targeted employers and seek out desired internships or jobs. Full employer details can be found on [Career Fair Plus](#).

These Career Day registrants indicated they are looking for students in AMS:

Day 1: Sept. 16th

- Adams County
- Continental Resources
- Coterra Energy
- Denver Water Department

Day 2: Sept. 17th

- Applied Control Equipment
- Bayer
- Cache Valley Electric
- Colorado State University

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- [Halliburton](#)
- [Idaho National Laboratory](#)
- [Ovintiv](#)
- [U.S. Army Corps of Engineers, Omaha District](#)
- [Woolpert, Inc.](#)
- [DSST Public Schools](#)
- [Epic](#)
- [Key Bank](#)
- [Lawrence Livermore National Laboratory](#)
- [Los Alamos National Laboratory](#)
- [NNSA Graduate Fellowship Program](#)
- [Pioneer Management Consulting](#)
- [Renewal by Andersen](#)
- [St Vrain Valley School District](#)
- [State of WY - Human Resources Division](#)
- [Teach@Mines](#)
- [The AES Corporation](#)
- [US Marine Corps Officer Programs](#)

SEMINARS

New - AMS Colloquium

AMS Colloquium will be on Friday, September 19, from 3-4pm in Chauvenet Hall 143. Dr. Stephen Becker, from CU Boulder will be our guest speaker.

Title: Randomization methods for big-data

Abstract: In this era of big-data, we must adapt our algorithms to handle large datasets. One obvious issue is that the number of floating-point operations (flops) increases as the input size increases, but there are many less obvious issues as well, such as the increased communication cost of moving data between different levels of computer memory. Randomization is increasingly being used to alleviate some of these issues, as those familiar with random mini-batch sampling in machine learning are well aware of. This talk goes into some specific examples of using randomization to improve algorithms. We focus on special classes of structured random dimensionality reduction, including the count sketch, tensorSketch, Kronecker fast Johnson-Lindenstrauss sketch, and pre-conditioned sampling. These randomized techniques can then be applied to speeding up the classical Lloyd's algorithm for K-means and for computing tensor decompositions, for example. If time permits, we will also show extensions to optimization, including a gradient-free method that uses random finite differences and a method for solving semi-definite programs in an optimal low-memory fashion.

Reminder - Joy in STEM Week

SWiM is planning a fall event called *Joy in STEM Week* during the week of September 22nd.

The week will culminate with the play *Truth Values* on Thursday, September 25th, in Bunker. This play is a one-woman show about both the joy and the challenges that many of us face in academia as we figure out the hidden curriculum. The play has been performed at over 80 institutions and has excellent reviews. Following the play will be a panel discussion to encourage further thought.

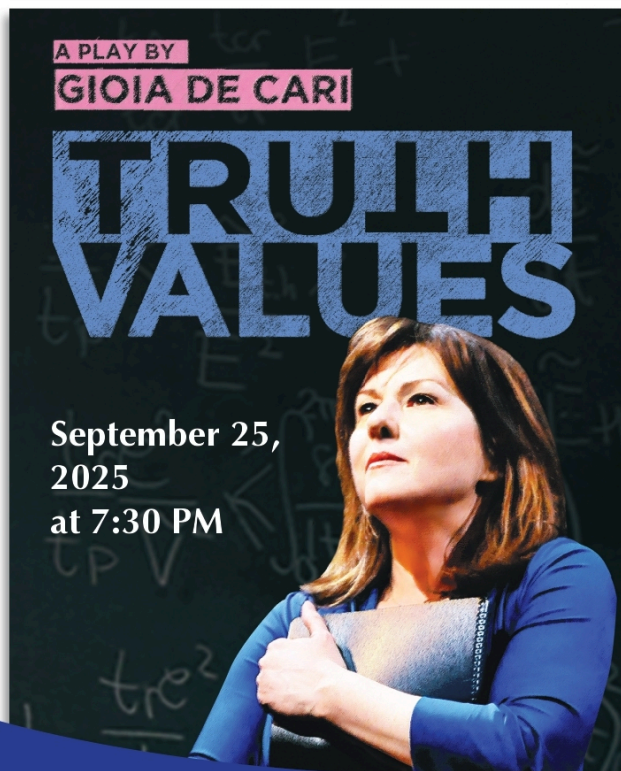
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Celebrate a week of joy in STEM with a special one-night performance of the international hit play *Truth Values*!

Called “hilarious” by WIRED, the play is also an insightful exploration of the joys and challenges students face in STEM. The story features NYC Writer/Performer and “Recovering Mathematician” Gioia De Cari’s adventures as a math Ph.D. student at the Massachusetts Institute of Technology. Enthralled by the perfection of the mathematical notion of Truth, she struggles with the clash of her personal reality in a world that is far more blurry.



**“ENERGETIC,
INTIMATE,
HILARIOUS”**

—Wired

**“It’s a play about...
joy in math, about being
yourself, and about your
impact on others.”**

—Monica Nevins, Ph.D., University of Ottawa

**“If you see only one play this year
about reflexive nonbinary relations,
make it this one.”**

—Los Angeles Times

Post-Show Conversation

A conversation about joy and belonging in math and science follows the performance. Special guest speakers include:

Jackie Simens
Founding President of SWiM,
passionate advocate for students in STEM

Melanie Westergaard
President, Board Director - Alumni,
Colorado School of Mines

Bunker Auditorium | Colorado School of Mines

For tickets, visit tinyurl.com/MinesTruthValues or scan here:



This presentation is sponsored by
the Society for Women in Mathematics (SWiM) at Colorado School of Mines



This event is part of the Truth Values Community Project, whose mission is to create a profoundly supportive environment in science, technology, engineering and mathematics (STEM) through an innovative combination of art, science, and conversation. The project was launched via sponsorship from the Alfred P. Sloan Foundation and the Massachusetts Institute of Technology.

This event is free and open to those outside of the Mines community, and we would love to see you there. After the show, we will host a post-show discussion with STEM professionals on the theme of joy and belonging in STEM. Tickets are limited, so make sure to reserve yours

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Swanson at swanson@mines.edu. For more information about the play visit TruthValues.org.

Reminder - AWM Virtual Seminar



Sarah Chehade
Oak Ridge National Lab



Zichao Wendy Di
Argonne National Lab



Emilie Purvine
Pacific Northwest
National Lab



Ulrike Meier Yang
Lawrence Livermore
National Lab

 **4:00pm-5:30pm ET | Sept. 26, 2025**

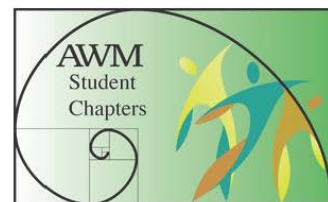
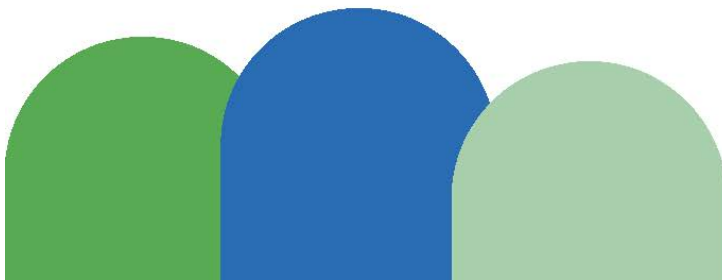
 **Zoom (Register to Attend)**

**For more information on
the CEO Series:**

[https://awm-math.org/programs/
student-chapters-info/careerseminar/](https://awm-math.org/programs/student-chapters-info/careerseminar/)



Zoom Sign Up!



**ASSOCIATION FOR
WOMEN IN MATHEMATICS**

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Submit your events, announcements, and opportunities for the AMS Newsletter to amsoffice@mines.edu! Submission deadline is Monday morning at 10:00 AM.

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