

Final Event: April 29, 2024

PROGRAM

Arrive at Jane Street; all-team photo on terrace

WELCOME BREAKFAST

8:00 Openina Remarks Dr. Chris Musco, New York University, M3 Challenge Director of Technical Computing Judging

TEAM PRESENTATIONS

8:45 **York Community High School** Team #17932

FW Buchholz High School 9:10 Team #17497 (Technical Computing)

9:35 **Livingston High School** Team #17400

10:00 Blake School - Northrop Campus Team #17570 (Technical Computing)

10:25 Watford Grammar School for Boys Team #17870 (Technical Computing)

10-minute Break

11:00 Phillips Academy Andover Team #17645

11:25 Canyon Crest Academy Team #17895

11:50 Thomas Jefferson High School for Science & Technology Team #17432

12:15 The Pingry School Team #17773

LUNCH

12:40 *Congratulations!* Michael Vronsky, Trader, Jane Street

HOST PRESENTATION

Jane Street Panel Jane Street recruiter, moderator

AWARD CEREMONY AND RECEPTION

"Best of" video: M3 Challenge 2024 Experience

Master of Ceremonies Dr. Karen Bliss, Senior Manager of Education and Outreach, SIAM

Remarks

Dr. Suzanne Weekes, Chief Executive Officer, SIAM

Technical Computing Scholarship Prizes Tanya Kuruvilla, MathWorks

M3 Challenge Team Prizes

3:00-Team Photos and Jane Street Tours (optional) 4:00

3:30-Meet at Marriott for transport to airport/trains/vans

4:30







WINNERS

Of the 655 papers submitted to this year's MathWorks Math Modeling Challenge, 128 (20%) advanced to the second round of judging, where 37 were selected for awards and recognition (6%).

FINALISTS

M3 Challenge Finalist Awards honor teams for the most outstanding mathematical approaches to the problem through modeling, justifying assumptions, describing their process, analyzing effects of change, and summarizing results. The top six teams will present their papers and winners will be announced at the award ceremony.

Canyon Crest Academy

(Team #17895), San Diego, California Coach: Brian Shay Students: Michelle Liang, Evan Luo, Larry Wu, Jonathan Xue, Stephen Zhu

Livingston High School

(Team #17400), Livingston, New Jersey Coach: Cheryl Coursen Students: Harsh Akunuri, Olivia Mei, Timothy Wu, Nathan Zhang, Kevin Zhang

Phillips Academy Andover

(Team #17645), Andover, Massachusetts Coach: Heidi Wall Students: Tianyi Evans Gu, Yifan Kang, Eric Wang, Anthony Yang, Angeline Zhao

The Pingry School

(Team #17773), Basking Ridge, New Jersey Coach: Bradford Poprik Students: Elbert Ho, Laura Liu, Annabelle Shilling, Evan Xie, Alan Zhong

Thomas Jefferson High School for Science & Technology

(Team #17432), Alexandria, Virginia Coach: Sewon Yang Students: Rishabh Chhabra, Om Gole, Rishabh Prabhu, Laura Zhang, Victoria Zhang

York Community High School

(Team #17932), Elmhurst, Illinois Coach: Ella Sak Students: Nick Cifelli, Timothy Flisk, Jeffrey Lu, Taylor Melind, Steven Piotrowski

TECHNICAL COMPUTING FINALISTS

This year 302 papers were considered for M3 Challenge Technical Computing Awards for outstanding use of programming to analyze, design, and conceive a solution for the problem. The top three teams will present their papers and winners will be announced at the award ceremony.

Blake School - Northrop Campus

(Team #17570), Minneapolis, Minnesota (Team #17497), Gainesville, Florida Coach: Christin Winkler Students: Karn Kaura, Alex Wu, **Curtis Ying**

FW Buchholz High School

Coach: Ziwei Lu Students: Melissa Li, Sophia Rong, Nathan Wei, Andrew Xing, Luke Xue

Watford Grammar School for Boys

(Team #17870), Hertfordshire, England Coach: Yachna Tailor Students: Dominic De Jonge, Meyer Louka, Neil Nair, Jakub Skop, Kshitij Tyaqi

PRIZES: \$100,000 OR £75,000

| M3 Challenge Champion | \$20,000 or £15,000+ |
|--------------------------------------|--|
| M3 Challenge Runner Up | \$15,000 or £11,400+ |
| M3 Challenge Third Place | \$10,000 or £7,500+ |
| M3 Challenge Finalists (3) | \$5,000 or £3,750+ each |
| M3 Challenge Semi-Finalists (6) | \$1,500 or £1,100+ each |
| M3 Challenge Honorable Mentions (22) | \$1,000 or £750+ each |
| | \$3,000, \$2,000, \$1,000 or £2,250+, £1,500+, £750+ |
| Outstanding Communication of Results | \$500 or £375+ each |
| Finalist Team Coaches (6) | \$500 or £375+ each |

WINNERS

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SEMI-FINALISTS

Papers from the following six schools underwent in-depth discussion and were deemed of exceptional quality by judges. These teams are recognized as semi-finalists and will receive prizes of \$1,500 each.

Blake School - Northrop Campus

(Team #17570), Minneapolis, Minnesota Coach: Christin Winkler Students: Karn Kaura, Alex Wu, Curtis Ying

Downingtown STEM Academy

(Team #17868), Downingtown, Pennsylvania Coach: Ryan Dobson Students: Saptak Das, Soham Katdare, Neel Kumar

Eltham College

(Team #17699), London, England Coach: Benjamin Eastley Students: Rohan Apte, Oles Chaban, Atharv Gupta, Alice Sanderson, Ethan Southward

Haberdashers' Boys' School

(Team #17996), Borehamwood, Hertfordshire, England Coach: Kim Harrison Students: Dawei Tao, Devarshi Mandal, Rajarshi Mandal, Aryan Prabhudesai, Oliver West

High Technology High School

(Team #17651), Lincroft, New Jersey Coach: Raymond Eng Students: Jasmine Guo, Abhinav Kartik, Harrison Mesh, Logan Mesh, Derek Wang

Mercer County

(Team #18073), Princeton, New Jersey Coach: Li Bai Students: Christopher Bai, Adrien Cristian, Patrick Ming, Josh Patel, Rishi Shah

HONORABLE MENTIONS

Teams representing the following schools are recognized for honorable mention distinction. Prizes of \$1,000 will be awarded to each of these 22 teams for noteworthy submissions.

ADLAI E STEVENSON HIGH SCHOOL

Lincolnshire, Illinois

AMERICAN HERITAGE SCHOOL

Plantation, Florida

CONESTOGA HIGH SCHOOL

Berwyn, Pennsylvania

EAST BRUNSWICK HIGH SCHOOL

E Brunswick, New Jersey

FW BUCHHOLZ HIGH SCHOOL

Gainesville, Florida

HARROGATE GRAMMAR SCHOOL

Harrogate, North Yorkshire, England

LEANDER HIGH SCHOOL

Leander, Texas

LYNBROOK HIGH SCHOOL

San Jose, California

MIAMI PALMETTO SR HIGH SCHOOL

Pinecrest, Florida

MIT PRIMES

Foxboro, Massachusetts

MONTGOMERY BLAIR HIGH SCHOOL

Silver Spring, Maryland

NEEDHAM HIGH SCHOOL

Needham Heights, Massachusetts

NILES NORTH HIGH SCHOOL

Skokie, Illinois

NORTH ALLEGHENY SR HIGH

SCHOOL

Wexford, Pennsylvania

ROUND ROCK HIGH SCHOOL

Round Rock, Texas

ST JOHN'S SCHOOL

Houston, Texas

THE JUDD SCHOOL

Tonbridge, Kent, England

WATFORD GRAMMAR SCHOOL FOR BOYS

Watford, Hertfordshire, England

WAUBONSIE VALLEY HIGH SCHOOL

Aurora, Illinois

WILLIAM FREMD HIGH SCHOOL

Palatine, Illinois

WILLIAMSTON HIGH SCHOOL

Williamston, Michigan

WINCHESTER COLLEGE

Winchester, Hampshire, England

TECHNICAL COMPUTING HONORABLE MENTIONS

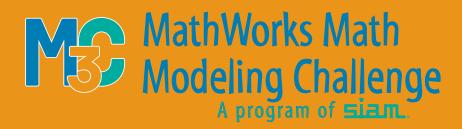
Teams representing the following schools are recognized for Technical Computing Honorable Mention distinction.

ADLAI E STEVENSON HIGH SCHOOL

Lincolnshire, Illinois

LEHIGH VALLEY MATH TEAM

Bethlehem, Pennsylvania



ABOUT M3 CHALLENGE

MathWorks Math Modeling Challenge (M3 Challenge) is the prestigious Internet-based competition known for providing a transformative high school experience to inspire students to pursue STEM majors and careers. The contest, organized by Society for Industrial and Applied Mathematics (SIAM) and sponsored by leading software developer MathWorks, is free and open to students in the U.S., England, and Wales. M3 Challenge will award top teams this year with \$100,000+ or £75,000+ in scholarships to use for their higher education. M3 Challenge has awarded more than \$1.85 million in scholarships to date.

Each school may enter up to two teams of three to five junior/senior or sixth form students, who spend up to 14 hours on Challenge weekend devising and submitting a solution to the Challenge Problem, which is not revealed to them until they log in. Following a rigorous multi-stage judging process, six finalist teams and three technical computing awardees present their findings live to a final judge panel to determine the final rank order. Learn more at **m3challenge.siam.org**.

ABOUT MATHWORKS

MathWorks is the leading developer of mathematical computing software. MATLAB, the language of engineers and scientists, is a programming environment for algorithm development, data analysis, visualization, and numeric computation. Simulink is a block diagram environment for simulation and Model-Based Design of multidomain and embedded engineering systems. Engineers and scientists worldwide rely on these products to accelerate the pace of discovery, innovation, and development in automotive, aerospace, communications, electronics, industrial automation, and other industries. MATLAB and Simulink are also fundamental teaching and research tools in the world's universities and learning institutions. Founded in 1984, MathWorks employs more than 6,000 people in 34 offices around the world, with headquarters in Natick, Massachusetts, U.S. For additional information, visit *mathworks.com*.

ABOUT SOCIETY FOR INDUSTRIAL AND APPLIED MATHEMATICS

Society for Industrial and Applied Mathematics (SIAM), headquartered in Philadelphia, Pennsylvania, is an international society of more than 14,000 individual, academic and corporate members from 100+ countries. SIAM helps build cooperation between mathematics and the worlds of science and technology to solve real-world problems through publications, conferences, and communities like chapters, sections, and activity groups. Learn more at *siam.org*.

ABOUT JANE STREET

Jane Street is a quantitative trading firm with offices worldwide. We hire smart, humble people who love to solve problems, build systems, and test theories. Will our next great idea come from you? Learn more at **janestreet.com**.

m3challenge.siam.org

