

Opportunities for Students in Mathematics

1. Mason Experimental Geometry Lab (MEGL): *science.gmu.edu/megl*
 - Provides opportunities especially for undergraduate research in mathematics.
 - Actively encourages and pursues outreach activities especially at the K–12 level.
 - Runs a student-focused seminar for enhanced learning and mathematical collaboration.
 - Strives to create a community for sharing mathematics at all levels.
 - Operates a laboratory: Computing facilities, 3D Printing, Virtual Reality, ...
2. Center for Mathematics and Artificial Intelligence (CMAI)
 - Runs various events (Colloquia, Conferences, Workshops, Summer Schools, ...) on mathematical research in AI, Data Science, and related applied mathematics areas.
 - Helps foster ties between Mason and National Laboratories, Industry, and Government
 - Contact: Professor Harbir Antil (hantil@gmu.edu)
3. Internship Opportunities in Math
 - Students can arrange to get a limited amount of course credit for Math-related internships.
 - Leverages connections between Mason and Industry
 - Interested students should typically start internship opportunity planning before their third year.
 - <https://math.gmu.edu/~igriva/Internships/>
Contact: Professor Igor Griva (igriva@gmu.edu)
4. StReeTs – STudent REsEarch TalkS at George Mason University: *streets-gmu.wikidot.com/*
 - Opportunities for students to present research and see other student research
5. GMU Math MakerLab: *gmumathmaker.blogspot.com/*
 - In-house 3D Printing Lab
 - Contact: Professor Evelyn Sander (esander@gmu.edu)
6. Putnam Mathematics Competition: *www.maa.org/math-competitions/putnam-competition*
 - Encourage participation in the premiere nationwide math competition for undergraduates
 - Contact: Professor Daniel Anderson (danders1@gmu.edu)
7. GMU Calculus Olympiad
 - Typically on a Saturday in April. Individual and Team competitions on Calculus I and II material.
 - Compete against fellow Mason undergraduates and students from other regional universities.
 - Open also to local high school students studying calculus.
 - Stay tuned to *math.gmu.edu* for more details.

8. GMU Math Scientific Computing Workshops: *math.gmu.edu*

- The aim of this series of workshops is to provide a basic foundation in scientific computing. Topics to be covered include LaTeX, Wolfram Mathematica, and Mathworks Matlab. Computers will be provided. Only basic competency with computing is assumed.

9. Mathematics Tutoring Center: *math.gmu.edu*

- Offers paid opportunities for strong mathematics students to work in the University's Math Tutoring Center

10. GMU College of Science Learning Assistant Program: *science.gmu.edu/academics/special-study-options/learning-assistants*

- Learning Assistants (LAs) are undergraduates in the College of Science who are interested in unique educational opportunities such as participation in undergraduate instruction, course innovation, peer-to-peer tutoring and mentoring (etc.) and the chance to work closely with Mason faculty.

11. Student Organizations in Mathematics: *math.gmu.edu*

- GMU Math Club [Contact: Prof. Scott Carson (scarson4@gmu.edu)]
- Association for Women in Mathematics (AWM)
- Society for Industrial and Applied Mathematics (SIAM)