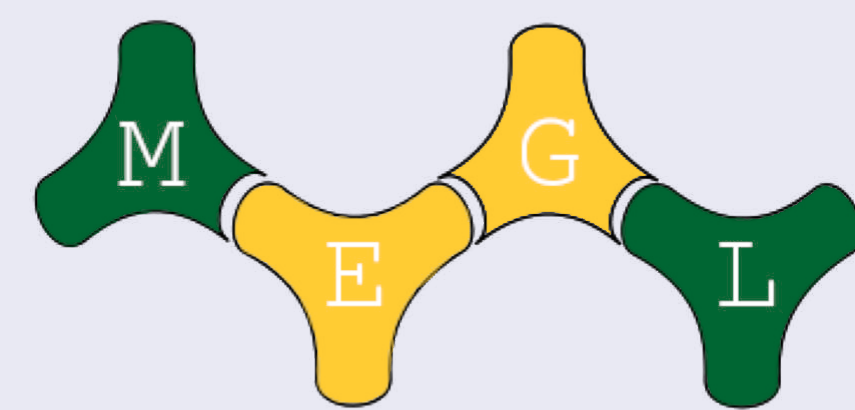


# Fall 2024 Outreach Team

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 Outreach Director: Dr. Ros Toala



Mason Experimental Geometry Lab



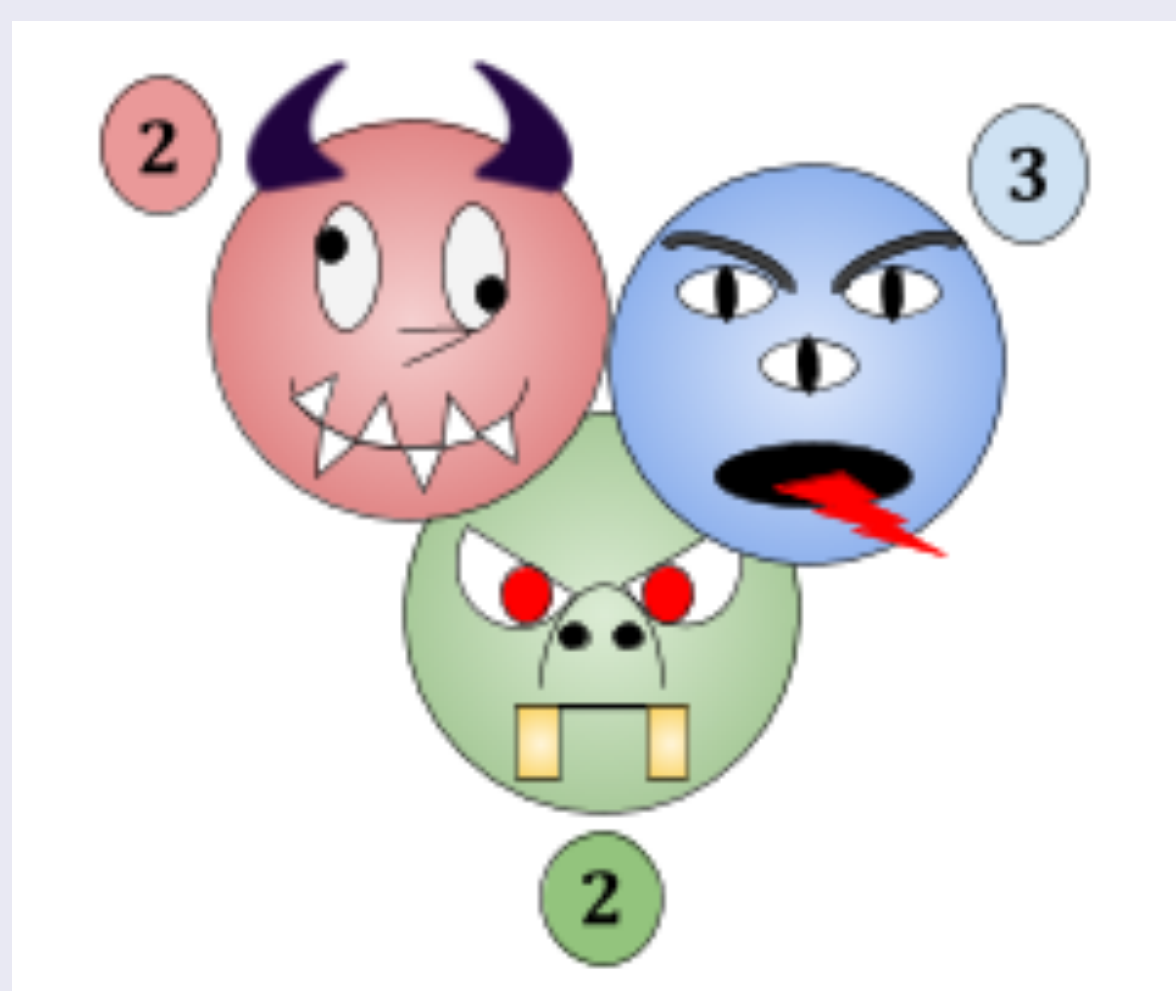
December, 2024

## Introduction

This semester, we welcomed two new teammates! We have been continuing to train our members to run activities and gain more volunteers.

## Activities

- Polygons, Tilings and Maps
  - Classifying shapes
- Quantum Computing
  - Efficient algorithms
- You Can Count on Monsters
  - Prime factorization
- Really BIG Numbers
  - Linear, polynomial, exponential, and factorial growth
- Your Teachers are Lying to You
  - Context matters in mathematics
- Playground of the Infinite
  - Hilbert's infinite hotel
- Snowflake Symmetry
  - Group theory
- Hyperbolic Crochet
  - Hyperbolic geometry
- Irrational Thinking
  - Irrational numbers
- Bubbles
  - Non-Euclidean Geometry



## Accomplishments

### Number of Students Reached

This semester, we reached a total of 589 children in the Fairfax County Public School District. We have mainly been targeting Elementary Schools however we had opportunities to reach middle and high school students at such events as 'Spooky Scary Science Day' and 'GMU Open House' where we had a chance to recruit potential new students and get them excited about the work done in MEGL and math in general.



### Photos



## Future Goals

- Reach more students and target more secondary school students with our new activities
- Create more follow-up lessons
- Find ways to make the booking process more efficient
- Encourage more students to take part in MEGL Outreach
- Be more active on social media

## Potential New Activities

- Game Theory
- Topoly Magic

## More Pictures

