

# MAST MESSENGER



## Math/Stats Colloquium

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**Speaker:** Katie Waddle (University of Michigan)

**Date:** Tuesday, October 21, 2025

**Time:** 4-5pm

**Location:** CMC 206

**Title:** Spherical friezes



**Abstract:** A frieze pattern is an infinite array of numbers such that each small grouping satisfies an algebraic rule. In this hands-on talk we will explore surprising connections between frieze patterns, algebra, combinatorics, and geometry. In particular, we will introduce new types of frieze patterns that arise from polygons on the surface of a sphere.

**Speaker:** Lisa Marquand  
(Courant Institute of Mathematical Sciences, NYU)

**Date:** Wednesday, October 22, 2025

**Time:** 4-5pm

**Location:** CMC 206

**Title:** Cubic hypersurfaces and rationality



**Abstract:** Algebraic geometry is at its core the study of zero sets of polynomials. The easiest examples to define are hypersurfaces - these are cut out by a single equation of a fixed degree. When the degree and dimension are low, these are often birational (or even isomorphic) to projective space. Such a hypersurface is said to be rational. However, as soon as the degree reaches 3, these cubic hypersurfaces become more complicated. We will survey rationality results for hypersurfaces of degree 3, ending with some recent results for symmetric cubic fourfolds.

## Math/Stats Skills Center



Looking for a place to study for an upcoming MATH/STAT exam? Have a problem on your review sheet or HW that you are not quite sure how to solve? Come to the Math/Stats Skills Center!

Peer tutors are available to help build problem-solving skills and conceptual understanding. The Math/Stats Skills Center offers drop-in tutoring Sunday-Friday in the CMC.

### Upcoming Events:

R workshop: 8:00-9:00pm on Thursday, November 6 (Week 8) in CMC 306

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## Lunch Workshop on Grad School Application Statements

**Time:** Thursday October 23rd, noon-1pm

**Location:** CMC 209

Do you need to prepare a statement of purpose for grad school applications this fall, but coursework keeps taking priority? Make a goal to complete (part of) a draft this week, and workshop it with peers over free lunch from Hideaway!

**RSVP by noon on Tuesday, October 21** to place your food order [here](#). Contact [kjmeyer@carleton.edu](mailto:kjmeyer@carleton.edu) with questions.

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## Graduate Programs

### Biostatistics and Health Data Science at the University of Minnesota

- UMN Biostatistics and Health Data Science is holding [virtual info sessions](#) on October 23rd and November 20th at 9:00 a.m. - 10:00 a.m. CT.
- Feel free to reach out directly to Prof Lianne Siegel ([siege245@umn.edu](mailto:siege245@umn.edu)), a Carleton '17 alum, if you are interested in any of their programs and have questions.

### Harris School of Public Policy at the University of Chicago

- [The Harris School of Public Policy](#) will be tabling at Sayles on Thursday, October 23, 2025 from 11:30 a.m. - 1:00 p.m.
- Harris Public Policy is the public policy school of the University of Chicago and is located on the university's main campus in Hyde Park. Click [here](#) for a Degree Programs Overview.

## Events, Internships, and Jobs

### Events

**Isla Internships Abroad - Intern in Armenia, Bulgaria, Kosovo, India, North Macedonia, or Spain**

Tuesday, October 21, 2025 • 12:00 - 1:00 p.m. • Sayles-Hill 251.

**The University of Chicago Harris School of Public Policy Tabling at Sayles**

Thursday, October 23, 2025 • 11:30 a.m. - 1:00 p.m.

**1:1 Mock Interview with Stephen Hayes at MIAC Analytics**

Friday, October 31, 2025 • 9:00 a.m. - 4:00 p.m.

### Internships

**Marketing Operations & Sales Intern (Summer 2026)**

Norfolk Southern. Due Thursday, October 23.

### Jobs

**Actuarial Executive Development Program**

The Cigna Group. Due Friday, October 24.