

MAST MESSENGER



Math/Stats Colloquium

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Speaker: Abby Loe (University of Michigan)

Date: Tuesday, October 7, 2025

Time: 4-5pm

Location: CMC 206



Title: A Wrinkle in Time (to Event): Inverse Probability Weighted Pseudo-observations for Analysis of Alternating Recurrent Events

Abstract: Alternating recurrent events, where subjects experience two potentially correlated event types over time, are common in clinical, healthcare, social and behavioral studies. Often there is a primary event of interest that, when triggered, initiates a period of treatment and recovery measured via a secondary time-to-event. For example, cancer patients can experience repeated blood clotting emergencies that require hospitalization, people with alcohol use disorder can have periods of addiction and sobriety, or medical interns experience periods of high or low mood. Potential censoring of the data requires

special handling, and overlaying this are the missing at-risk periods when individuals are being treated for the condition that initiated the primary event. In this talk, we develop a framework for regression analysis of censored alternating recurrent events that uses a random forest inverse probability weighting strategy to avoid bias in the analysis of the primary time-to-event due to informative missingness from those in the alternate secondary state. The proposed regression model estimates τ -restricted mean time to primary outcome of interest while taking into account complexities of censored/missing data. Simulations show good performance of our method when the alternate times-to-event are either independent or correlated. We provide an application arising from a mobile health study, evaluating the impact of a just-in-time adaptive intervention on the mental state of carers of traumatic brain injury patients.

Dr. Alicia Prieto-Langarica

Distinguished Professor at
Youngstown State University

Math and Stats Colloquium
Thursday October 9th
4-5pm, CMC 206



Making Undergraduate Research Work for Faculty and Students: an Example-Driven Talk

Abstract: Getting involved in research has become a must for all undergraduate students. Why is it so important to do research? What exactly counts as research in mathematics? How do we make it work best for our students? How do we make it work for our faculty members? The talk will consist of examples of projects with undergraduate students in very different formats. This will be an interactive talk - questions and audience participation are encouraged!

Dr. Prieto-Langarica will also be giving the Carleton Convocation, Re-Indigenizing our Teaching Practices, on Friday, October 10 at 10:50 am, in the Skinner Memorial Chapel.



Scan for bio & more info!

Sponsored by the Elizabeth Nason Distinguished Visitors Fund.

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.

Already coming to the Math/Stats Skills Center? Help us celebrate our peer tutors! **Monday, October 6 - Friday, October 10 is Tutor Appreciation Week.**

Upcoming Events:

Mathematica Workshop (4:00-5:00pm on Friday, October 3 in CMC 304)
Trigonometry Workshop (4:30-5:30pm on Monday, October 6 in CMC 301)
R Workshop (8:00-9:00pm on Thursday, October 9 in CMC 306)



Rebecca Terry, Director

Going to the JMM?

This year's Joint Mathematics Meetings (JMM) is taking place in Washington, DC from January 4-7, 2026. If you are registered and would like to coordinate travel plans with other Carls who are attending, please record your information on this [Google form](#). The Department will also send a reminder towards the end of the term once folks have more settled travel plans.

Career Mentoring Session

Alejo Lifschitz, from Meta Reality Labs, will be giving a Chemistry Department Seminar Friday, Oct. 3rd. He has offered to host a career mentoring session to all STEM students who are interested in semiconductor or tech industries. It will be held in **Olin 141 from 2:20-3:20pm** on Friday before his seminar.

Career Mentoring Session with Alejo Lifschitz
Friday, Oct 3 | 2:20-3:20 pm | Olin 141

Are you a STEM major curious about a career in the semiconductor or tech industries? Join us for an exclusive industry career session with Alejo Lifschitz, a research scientist at META. This is your chance to gain firsthand insights into the fast-paced world of technology and explore potential career paths. Alejo will share his experiences and answer your questions about working at the forefront of tech.



Add this event to your Google Calendar!



Chemistry Department Seminar:
**"Shaping the Future of Augmented Reality:
 The Role of Materials Science"**
Friday, Oct 3 | 3:30-4:30 pm | Anderson 329

The next major shift in how we interact with digital content may be driven by the rise of industrial-scale Augmented Reality (AR) devices. These innovative consumer electronics have the potential to seamlessly integrate AI tools into our daily lives and create new ways to exchange information between the physical and digital worlds. However, the widespread adoption of high-performance, affordable AR devices is still limited by the optical materials available today. This challenge is sparking a transformation in both AR technology and the broader field of optics, as researchers seek new materials and chemistries to meet growing demands. In this seminar, we will explore how chemists and materials scientists are at the forefront of this technological revolution. We'll discuss their critical role in developing the next generation of AR devices, and how advances in materials science are shaping the future of technology, semiconductors, and optics.

Add this event to your Google Calendar!



***This seminar counts towards the chemistry major seminar attendance requirement.**

eUSR 2025

Registration and submissions for the [Electronic Undergraduate Statistics Research Conference](#) (eUSR) are open! The conference is **free**, and it will take place on **Friday, November 7th**. The conference is open to all students and faculty to attend.

The keynote speaker is [Dr. Xiao-Li Meng](#), Whipple V. N. Jones Professor of Statistics, Harvard University, and Founding Editor-in-Chief, *Harvard Data Science Review*. There will be sessions on statistics careers and graduate school. Winners of the [Undergraduate Statistics Project Competition](#) will give plenary talks. Students can also present their work in the virtual presentation session.

Abstract submissions for video presentations are encouraged. Support will be provided for video creation, and students can see example presentations by watching [last year's videos](#). **A cash prize will be given out for the BEST video presentation!**

The deadline to submit an abstract to present is **Friday, October 17th** and the deadline to register is Thursday, November 6th. If students or faculty are not sure whether a poster or presentation is a good fit, want help preparing a submission, or have any other questions, you are welcome to reach out to Amanda (aluby@carleton.edu).

Graduate Programs

Department of Population Health Sciences at Weill Cornell Medicine

The Department of Population Health Sciences offer M.S. in Biostatistics and Data Sciences, M.S. in Health Informatics, M.S. in Health Policy and Economics, and PhD in Population Health Sciences. Please see the dates and [registration links](#) for a few virtual information sessions. Click [here](#) to see their curriculum more in detail.

PhD in Mathematics at The Ohio State University

About eighty active graduate faculty on the Columbus and regional campuses are available to guide dissertation research. Virtually every area of theoretical mathematics is represented in our program, including number theory, ergodic theory, algebraic and differential geometry, combinatorics, probability, real and complex analysis, differential equations, topology, and various algebraic subfields. Prominent areas in applied mathematics are mathematical biology, data science, scientific computing, fluid dynamics, as well as our new specialization in actuarial science.

Please click [here](#) for more details. Apply [here](#).

Volunteer with Tutoring Hotline

**TUTORING
HOTLINE**

**WEEKLY HOMEWORK HELP FOR
LOCAL PUBLIC SCHOOL STUDENTS**
| FLEXIBLE HOURS |

In-person at a public location OR virtually via Zoom

- Math, Science, Reading/Writing, History/Social Studies, etc.
- One-on-one/small group sessions
- 1-2 hours per week

Contact:
enzg@carleton.edu
if you have any questions!

SCAN ME

SIGN UP TO VOLUNTEER!

THE CENTER OF COMMUNITY AND CIVIC ENGAGEMENT
CARLETON COLLEGE

Events, Internships, and Jobs

Events

[Career Pathways for Students in Arts and Humanities](#)

[Career Pathways for Students in Natural Sciences](#)

[Career Pathways for Students in Social Sciences](#)

Monday, October 6, 6:00 - 7:00 p.m. Various locations.

Carleton Consulting Club's Consulting Case Competition

Sunday, October 5, 3:00 - 6:00 p.m. Weitz Center 236.

[Career Center Fall Headshot Event](#)

Monday, October 6, 3:00 - 5:00 p.m. Weitz Center.

[TIAA & Nuveen Career Paths:](#)

[Early Talent Programs & Professional Development](#)

Wednesday, Oct 15, 4:30 - 5:30 p.m. Alumni Guest House.

Internships

[State and Local Government, North Market Intern \(Summer 2026\)](#)

Guidehouse. Due Saturday, October 4.

**Career
Discovery
Week**

Ready to turn your interests into a career path?

Join us for Career Discovery Week and learn directly from alumni who are using their liberal arts education to build meaningful lives and careers.

October 6-9, 2025 | 6:00 - 7:00 p.m.
Followed by a post-panel reception starting at 7:00 p.m.

Interest Panels

MONDAY, OCTOBER 6

- Arts & Humanities
- Social Sciences
- Natural Sciences

TUESDAY, OCTOBER 7

- Students who want to work in the Community and with People
- Students who like Numbers

WEDNESDAY, OCTOBER 8

- Students who like to be Creative
- Common Good

THURSDAY, OCTOBER 9

- Students interested in STEM
- Dedicated to Education

Scan to register

Jobs

Full-Time Analyst 2026

Bessemer Ventures Partners. Due Sunday, October 5.

Technology Associate - Software Engineer

Wellington Management Company LLP. Due Sunday, October 12.