Meet Your New Professors!

Joseph Johnson
Joseph is a native of Akron, Ohio. He grew up enjoying math and ONLY math, as he struggled to care about other subjects due to their apparent tedium. As he got older, he saw that the other subjects had their merits, and that math could help study them. Therefore, when he went to college at the University of Akron, he decided to major in Applied Mathematics and Economics.

The ancestral ties between the University of Akron’s math program and Northwestern University’s applied math program (i.e., Gerald Young) gave Joseph a fairly applied upbringing during his undergraduate and master’s studies. There he enjoyed playing with dynamical systems, numerical methods, and various approaches (e.g., transforms, series solutions, perturbation methods) to solve tricky applied math problems. He moved on to Northwestern University for his doctorate studies and then to the University of Michigan for his post-doc, where he enjoyed using dynamical systems to model subjects such as the development of name-brands and generics and the evolution of size difference between sex cells. He also picked up Agent-Based Modeling (using computational agents instead of equations to model phenomena). He now plans to use his suite of tools to study social phenomena that affect all of us.

He is an avid gamer, enjoying games like Super Smash Bros., Pokémon, and Metroid. He also enjoys football (college and professional). You might catch him watching a Cavs game, too!

Northfield Undergraduate Mathematics Symposium

This year’s Northfield Undergraduate Mathematics Symposium (NUMS for short, a joint event with St. Olaf) will be held in person at Carleton on Tuesday, October 11, 2022. Come to hear talks from your peers about their previous research experiences in a wide variety of areas!

When: **Tuesday, October 11, 2022** from 3:30pm-7:45pm. Break from 5:30-6:00pm for pizza!
Where: Olin 141
Note: Masks are required for this event.

You can earn one half of a talk credit by attending two talks at NUMS. Quarter credits (for attending a
single talk) will not be counted, so make sure you attend talks in multiples of two!

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**Undergrad Research & Internship Symposium**

The annual Undergraduate Research and Internship Symposium will be in the Weitz Commons on **October 14, 2022** from 4:30-6:30pm. Students will present on the research or internship work they did over the summer.

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**MAST Colloquium**

The MAST Colloquium will meet again on **Tuesday, October 18** with a talk by Laura Boehme Vock, an assistant professor of statistics at St. Olaf College. Dr. Boehme Vock's research interests are in spatial statistics, environmental statistics, and public health and epidemiology.

3:30pm CMC 201 (MAST Student Space) - Pre-colloquium Tea. Come for snacks and conversation, and then head to the colloquium together.

4:00pm-5:00pm CMC 206 - Colloquium Talk (Masks required)

Everyone is welcome to return to the MAST student space afterwards to eat leftovers from the tea and hang out!

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**SCUDEM Applied Math Contest**

Do you have some experience with differential equations (e.g. Math 241)? Are you interested in tackling a challenging applied math problem with friends? You should join a SCUDEM team!

**SCUDEM is a 3-student group modeling challenge that runs over a roughly 3 week period (Oct 21 - Nov 13)** culminating in a 10 minute video which is reviewed by at least 3 judges. Teams choose a problem provided in one of the areas of: physics/engineering, chemistry/life sciences, or social sciences/humanities, and develop a model using differential equations. You can even check out an award winning presentation from one of Carleton's 2020 teams!

If you are interested in participating, please email Rob Thompson (rthompson@carleton.edu) by **Monday Oct 17**. He can answer questions, send along information, and help you find a team. Remember, this contest takes place over a roughly 3 week period, so the way you dedicate time to the competition can be very flexible.

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**∫BIPOC: Integrate BIPOC Group**

∫BIPOC (Integration BIPOC) is a group of MAST students and faculty interested in supporting BIPOC in and adjacent to our department. We will be organizing social and intellectual events in the interest of growing a nurturing mathematical and statistical community, and just to enjoy each other's company!

If you are interested in joining the group, please email either Sunrose (sshrestha@carleton.edu) or
Claudio (cgonzales@carleton.edu).

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### Upcoming GeMMS Events

GeMMS has Tuesday evening study halls at 8:30pm in the MAST student space! Join them for studying, study breaking, and SNACKS!

There will also be a study break over midterm break with board games and snacks! Look for an email with more information.

To join the GeMMS email list, email MurphyKate (mmontee@carleton.edu)!

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### Budapest Semesters in Math Education

Spend a summer in Budapest to explore the Hungarian mathematics pedagogy, which emphasizes problem solving, mathematical creativity, and communication. Summer@BSME is a six-week study abroad program designed for undergraduates, recent graduates, and in-service teachers interested in the learning and teaching of secondary mathematics. Participants take mathematics education courses to learn about the Hungarian pedagogy. They also engage in a week-long field experience at a math camp, where they obtain first-hand experience on how the methods learned in the courses are put into practice.

To learn more about this exciting summer opportunity, visit bsmeducation.com, or contact Program Coordinator Jill Fisher (bsme@bsmeeducation.com) with any questions.

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### Job, Internship, & Other Opportunities

#### Academic Programs

The University of Michigan Biostatistics Program has upcoming Prospective Student Days: virtual (October 12) and in-person (November 5).

The University of Kansas Graduate School is hosting a “Jayhawk Mathematics Sneak Peak” for prospective students from underrepresented groups. Apply by Monday, October 17 for financial support to attend.

Empirical Research Fellowship, Stanford Law School, Due Monday, October 17.

#### Internships

Summer 2023 Associate Consultant in Pharmaceutical and Biotech Strategy, Clarion. Due Tuesday, October 11.

Consulting Internship in Digital, Healthcare, or Higher Education Research/Strategy & Operations (Summer 2023), Huron Consulting. Due Friday, October 14.

Canvas Research, Data Science, and Engineering Internship (Summer 2023), Point72 Asset Management, Due Friday, October 14.

Software Development Internship (Summer 2023), Remitly, Due Friday, October 21.
Jobs

Client Service Associate, Spanish Fluency, AlphaSights. Due Friday, October 14.


Analyst, Center for Radical Innovation for Social Change (RISC) @ University of Chicago. Due Saturday October 15.

Data Science Analyst, Ovative Group. Due Friday October 28.

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For more info and further job, fellowship, and internship opportunities, visit the Carleton Career Center.

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