



Goodsell Gazette

Carleton College

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Northfield, MN 55057

The newsletter for the Carleton mathematics and statistics community

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Grad School Info Session

Are you interested in graduate school in Mathematics or Statistics? If so, please consider attending our Graduate School Info Session on Tuesday, September 27th, 4-5pm in CMC 206. A few Math & Stats Department faculty will discuss their experience with graduate school and answer questions. The panel will also discuss the application process for graduate fellowships, such as the NSF GRFP. We hope to see you there!

Math Across the Cannon

Unfolding Mysteries at Burning Man Tuesday October 4, Olin 141, 3pm Reception 3:30pm Talk

Over 500 years ago, the Renaissance master Albrecht Dürer began exploring geometric mysteries related to unfolding boxes of all shapes and sizes. We discuss this simple puzzle, and play with some higher-dimensional versions, all of which inspired the creation of an interactive 2-ton artwork that was displayed at Burning Man, the world's most influential sculpture showcase. These ideas are filled with tantalizing mathematics and have motivated numerous areas of exploration, including the recent James Webb space telescope.

Mathematics and the Art of Being Human Tuesday October 4, St. Olaf, Viking Theater, 7pm Talk, 8pm Reception

Over the past century, math has become increasingly valued in our technologically driven world. Unfortunately, this has come at a great cost, where we prioritize the sciences over the arts, digital over analogue, and measurability over complexity. The effects of this has impacted all aspects of our lives, notably education at all levels. This talk offers a possible way to redeem our STEM obsessed world.

*Talks by Satyan L. Devadoss, the Fletcher Jones Professor of Applied Math and Professor of Computer Science at the University of San Diego. Learn more at satyandevadoss.org.

NUMS Announcement

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, and we're looking for speakers! If you did math or stats research this summer and are interested in giving a 20 minute talk at NUMS, please fill out our [speaker application form](#). You can see examples of the 2018 NUMS talks [here](#).

The deadline for submitting an application has been extended to Thursday, September 29 at 5pm. Please contact Caroline (cturnageb@carleton.edu) if you have any questions.

Student Research Funding

There is funding available to support student research in the STEM disciplines during Winter Break 2022. Brief descriptions and links to the application forms are below:

Student Research with Carleton Faculty (Towsley Endowment)

Application Deadline: Monday, October 3, 2022, 5:00 PM

What: The Towsley Endowment provides financial support for Carleton students working with Carleton science and math faculty during winter break. Awards fund student winter stipends (\$500/week for full time work) for up to 3 weeks. Money for supplies is also available, typically up to \$150 per student. Note that students must work full time in order to qualify (i.e. they must not hold another job during the award period).

Who: Carleton faculty in science and math departments and programs, including visiting faculty and faculty on continuing appointment, are eligible to apply. These include Biochemistry, Biology, Chemistry, Cognitive Science, Computer Science, Environmental Sciences, Geology, Math and Statistics, Neuroscience, Physics and Astronomy, Archaeology, and Psychology.

Some of the application questions include: Project title, description of your project, faculty and student development goals, mentoring plan, how many weeks and total amount of funds requested, other potential sources of funding, and other info relevant to the proposal.

More details are available in the application form, found [here](#).

Student Research at Another Institution (Kolenkow-Reitz Fellowship)

Application Deadline: Monday, October 3, 2022, 5:00 PM

What: The Kolenkow-Reitz fellowship provides research support for Carleton students working with non-Carleton science and math faculty at another institution during the winter break. These research opportunities are intended to encourage Carleton students' development as scientists and their exploration of mathematics and the sciences as a possible career. Awards fund student stipends (\$500/week for full time work) for up to 3 weeks during winter break. Additional expenses up to \$150 can be requested to help defray travel or research supply expenses. Note that students must work full time in order to qualify.

Who: Carleton students are eligible to apply for this funding. Before applying, students should have

already contacted and discussed the nature and timing of their project with the person they are planning to work with as well as a faculty member at Carleton who can vouch for the project and its alignment with their professional development goals. Because the intent of the fellowship is exploration in STEM fields, priority is given to students who have completed coursework related to the proposed research, but who have not yet had a significant funded research experience (7 or more weeks). For Winter Break funding, we also consider students returning to a summer lab to finish up experiments and/or write up results for publication.

More details are available in the application form, found [here](#).

Questions? Contact Amy Csizmar Dalal (adalal@carleton.edu)

Problem Solving Group

Have you enjoyed the problem-solving aspects of your classes? Do you want to get better at problem-solving? If you answered "yes" to either of these questions, then the problem-solving group is just for you! Come join us in CMC 201 from 5-6 pm on Wednesdays (starting Week 2), where we will work on solving some fun and challenging math problems together. All are welcome. This term we will focus on working problems from past editions of the infamous Putnam exam and the Konhauser problemfest, a semi-legendary local team competition that features fun and challenging problems of a variety of difficulty levels.

Sunrose Shrestha will be hosting the session. You can contact him for more information (sshrestha@carleton.edu). If you can't make the meeting but would like to stay up to date on activities of the problem-solving group, join our email list by sending Sunrose an email.

Join GeMMS!

Are you interested in being a part of GeMMS (Gender Minorities in Math and Statistics)? Fill out [this form](#) (also below in QR Code) to stay up to date on upcoming events and activities through our email list or Slack. Make sure to fill it out by the END OF WEEK 2 in order to sign up for our mentor/mentee program, either to get some guidance from older GeMMS mentors or to be a mentor yourself!

Upcoming events:

- STUDY HALLS once a week on Tuesdays at 8:30pm in the MAST Student Space.
- Mentor/mentee LAUNCH PARTY at Blast at 4:45pm on the Friday of third week
- CRAFTS AND CONVERSATIONS on the Wednesday of fourth week, at 6pm in the MAST Student Space.

Hope to see you there!



Tutor in the Math Skills Center

Do you like helping peers solve math problems? The Math Skills Center seeks tutors for the following times:

- Monday, Wednesday during 2a and 3a
- Tuesday 7-9pm
- Friday during 3a

For details on job requirements, see <https://www.carleton.edu/asc/math-skills-center/work-at-msc>. If interested, please email Russ Petricka (rpetrick@carleton.edu) or stop by the Skills Center in CMC 231.

Igniting Careers Diversity & Inclusion Summit

Bank of America invites sophomores, juniors, and seniors, to apply for the chance to meet our team of recruiters and professionals this fall! Selected students will enjoy an all-inclusive experience at our corporate headquarters in Charlotte, NC on November 9-10, 2022. As an attendee, you will receive business-specific seminars, join dynamic discussions on diversity and inclusion, interview for Summer 2023 internships or full-time roles, while building your professional network along the way. This forum is intended to prepare students from historically underrepresented backgrounds in financial services for the campus recruiting process. Students who have received or accepted Summer 2022 or 2023 internship offers at Bank of America are not eligible to apply.

Submit an application by October 9, 2022 for the career track of your choice:

- [Market Makers](#)
- [Fintech and Data Science](#)
- [Corporate Functions](#)

Applicants chosen for consideration will be invited to complete a HireVue video interview AND indicate the internship programs for which they would like to be considered. While student applications are limited to one career track, we will consider applicants for all programs based on capacity. Reach out to Debra Ponce de Leon '81 (debra.a.ponce_de_leon@bofa.com) with any questions.

Research & Junior Analyst Opportunities

Analysts play an integral role in the research and policy work of New York Fed economists, providing support with data analysis and visualization, econometric or statistical models, and public policy reports. The New York Fed Research and Statistics Group has a highly respected program for full-time Research Analysts who join us for two years after graduating college, and then successfully pursue graduate school, private-sector or public-sector positions. Applications for positions (starting Summer 2023) are being accepted on a rolling basis [here](#). Candidates should apply by October 15th.

Additionally, our Junior Analyst internship program is an excellent opportunity to experience the work of an analyst. Applications are being accepted (for those graduating Winter 2023 or Spring 2024). These positions are posted [here](#). Candidates should apply by November 1.

We explicitly seek candidates from a wide range of backgrounds, particularly those that are typically underrepresented in the economics profession. Email (ny.fed.ra.recruiting@ny.frb.org) with any questions.

Additional Job & Internship Opportunities

*Unless otherwise noted, full-time roles in this section have expected start dates in 2023

Research Associate (Macroeconomics, Investments, Political Analysis) Franklin Templeton Investments. Due Monday, October 3

Global Markets Sales & Trading Full-Time Analyst - Hong Kong Bank of America. Due Saturday, October 8

Business Analyst Federal Bureau of Investigation. Due Friday, October 14

Economic Studies Research Assistant The Brookings Institution. Due Friday, October 14

Macroeconomic, Sovereign Credit, and Political Analyst Internship (Summer 2023) Franklin Templeton Investments. Due Monday, October 3

Nike Analytics Undergraduate Internship (Summer 2023) Nike, Inc. Due Wednesday, October 12



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