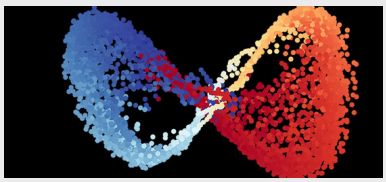
# NEWSLETTER

## Howard University Math Department

### Seminars beginning recently

The Topological Semigroups and Ramsey Theory Seminar and the Mathematical Biology and Data driven Insights Seminar series have started. Details inside.

### NSF-MPS Webinar



From Talitha Washington:

The U.S. National Science Foundation Directorate for Mathematical and Physical Sciences (NSF MPS) will host an informational webinar on Oct. 7 for the U.S. mathematical sciences research community.
More Information



## Yeona Kang in the news

*From DC CFAR newsletter*

(DC Center for AIDS Research)

"Please join us in congratulating Dr. Yeona Kang, Associate Professor, Department of Mathematics, Howard University (HU) on receipt of an National Science Foundation (NSF) grant entitled "Modeling HIV Drug Resistance Through a Biochemical-Immunological Lens." The project intends to present a novel approach for modeling the emergence and dynamics of HIV resistance to pre-exposure prophylaxis (PrEP) with long-acting injectable cabotegravir (CAB-LA). The framework connects molecular drug target interactions, drug exposure and activity in the body, and virus-immune system dynamics during early HIV infection."

Katie Gurski was co-PI for this award

*Past newsletters can now be reached via the department website.*
*[Click on "About" and then "News and Events"].*

*Newsletter is sent out when there is something new.*
*It is produced without the use of AI.*
*Please send entries by the end of the workweek to Editor (Sankar Sitaraman)*

# *Ongoing Seminars in the department*

## Mondays

### *Algebra and Combinatorics Seminar*

Combinatorics & Algebra Seminar which had been running for a number of years at George Washington University will now be a joint venture between the GW and Howard math departments. The organizers of the seminar are Joel Lewis & Robert Won (GW) and Sam Hopkins & Minh-Tam Trinh (Howard). The talks will take place 4-5pm on Mondays, in Rome Hall 459 at GWU.

Seminar Website

## Tuesdays

### *Topological Semigroups and Ramsey Theory*

10:10 - 11 am on Zoom (contact organizer for link)

On Oct 6, Dr. Conner Griffen of The Ohio State University will talk about "Infinite Sum-Product Configurations in Parallel."

Organizer: Dennis Davenport

# *Ongoing Seminars in the department*

## Tuesdays (contd)

### *Mathematical Biology and Data Driven Insights*

11 am in room 205, Graduate School Building

On Oct 6, Maeve Wildes, who recently joined our department, will talk about "Porous medium equation tumor growth models."

Organizers: Katie Gurski, Joon Ha, Sayomi Kamimoto, Yeona Kang, Chris Kim

### *AI, combinatorics, and number theory seminar*

Alternate Tuesdays 2 to 3pm. Contact organizer for zoom link.

On Sep 29, Matilde Lalin of the Universite de Montreal spoke.
Organized by Angelica Babei as part of her NSF grant.

Seminar website

# Ongoing Seminars in the department

## Thursdays

### *Number Theory Seminar*

Seminars are on Thursdays, 3.15 to 4.15pm. Contact organizers for zoom link.

On Oct 1, Cameron Franc of McMaster University spoke about
"Vector-valued modular forms and the classification of Vertex Operator Algebras"

Organizers: Angelica Babei and Sankar Sitaraman

Seminar website

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## Fridays

### *Friday Chill Math (problem session)*

Jermaine McDermott is organizing informal problem sessions for students interested in exams such as the Putnam exam.

Fridays 1.30 to 3 pm, room 203.

### *Graduate Students Seminar*

Seminar meets fridays 2.30 to 3.30pm.

Contact person: Toni Smith

# Friday Colloquium Series

Fridays, 4.10 to 5pm. Room 109



On Oct 2, **Charles Burnette** of Xavier University of Louisiana spoke about "Random Permutations, the Erdős-Turán Law, and Involution Factorizations"



On friday, Oct 9, **Manami Roy** of Lafayette College will speak about "Exploring Elliptic Curves: From Local Data to a Millennium Prize Problem"

The colloquium schedule and past videos are available at this website:

https://deleo.website/HU/colloquium.html

Organizers: Alex Burstein, Roberto De Leo, Sam Hopkins, Cheikh Ndiaye

# Talks And Workshops Elsewhere

## Arizona Winter School

(via Daniel Mamo)

Application/registration is **required for attending**.

- **Students** should apply here. The application deadline for **students** is **November 24th, 2026**.
- **Senior participants** (postdocs, faculty, and anyone with a PhD) should register here. The application/registration deadline for **senior participants** is **December 15th, 2026**.




## New Horizons in the Calculus of Variations and Its Applications

(via Dennis Davenport)

**Carnegie Mellon University**

**May 24–28, 2027** **Event website**

## 5th International Conference: Constructive Mathematical Analysis (ICCMA-2027)

1 to 4 July, Sarajevo
More Information

## Conference on Formal Power Series

The 39th International Conference on Formal Power Series and Algebraic Combinatorics
July 5–9, 2027
University of Galway, Ireland

More Information

## The Oxford AI Symposium

*Artificial Intelligence, Knowledge & the Human Future*

*5-7 July 2027 | Oxford, England*

Website

# *Talks And Workshops Elsewhere*

## 2026 SIAM-DC-MD-VA Section Meeting

(via Dennis Davenport)

November 20, 2026

George Mason University, Arlington Campus
Registration is free but required. Registration deadline is October 31, 2026

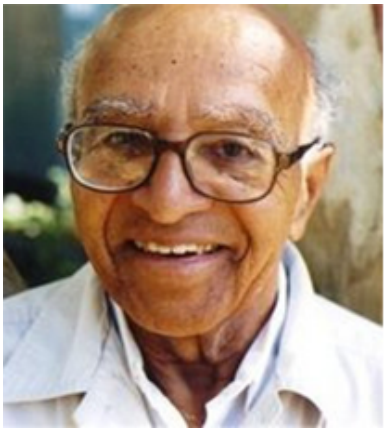
math.gmu.edu/~hantil/SIAM/Fall2026

## Blackwell-Tapia Conference

(via Dennis Davenport)

**Rice University**

Dec 4-5**, 2026** **Event website**





## In previous newsletters

**Shenandoah Undergraduate Mathematics and Statistics (SUMS) conference**

**Towson University Undergraduate Research Conference**

**Mid-atlantic Algebra, Geometry and Combinatorics (MAAGC) workshop**

# *Scholarship and Fellowship Opportunities*

*From various sources*

## Cherry Award for teaching

(via Dennis Davenport)

Baylor University seeks nominations for the most significant award in teaching. Deadline Nov 1. More Information

## Simons Foundation

(via Sam Hopkins)

Funding available for HBCU's to create centers of excellence in mathematics that foster research and provide pathways for students into STEM.

Funding also for HBCU faculty to get time off from teaching.

More Information



(via Mohammad Mahmood)

## The Office of Naval Research (ONR) Summer Faculty Research Program

The ONR Summer Faculty Research Program is accepting applications for 2027. The Program awards qualified faculty the opportunity to conduct research for 10-weeks at one of 20 participating ONR facilities. The application deadline is December 14, 2026. More information

## The Department of Navy HBCU/MI Student Internship Programs

Its ten programs span career paths from ship design and naval aviation to cyber, medicine, logistics and law. Deadline is Dec 14. **Program Website**

## More ONR funding opportunities including specific programs for HBCU

# *Interesting articles and comments*

(From previous newsletter) We have been discussions in the department about the promise and perils of AI in mathematics. Here are a few related articles.

a) (Thanks to Sam Hopkins) **Statement by Fields Medallists**

Statement titled "A Severe Misalignment of AI in Mathematics," is signed by 25 Fields medallists. They state that the goals of the AI companies and the mathematical community are not aligned.

b) **If math is more than proof, we need to better celebrate the rest of it**

Guest post on Terry Tao's blog by Grant Sanderson (creator of 3Blue3Brown) charts a possible reconfiguration of graduate research and professional research by giving more weight to explainers and expository articles and videos by mathematicians and graduate students.

c) **Scientific American article on AI, mathematics, and the environment**

Article discusses the effect of AI on mathematics as well as society and the environment.