

THE MATH ALLIANCE



DR. DAVID GOLDBERG
Director

The Math Alliance newsletter has been updated to better reflect our mission and vision for the future.

As we move into spring it is an exciting time for us. We are starting the 2023-24 [F-GAP program](#). This program has become the center of so much of the success of the Math Alliance. Since 2013-14 over 800 Scholars have taken part in this program, and over 80% of those responding to our follow up surveys have entered a graduate program after participating in F-GAP. But this doesn't happen on its own, it happens because Math Alliance Mentors nominate Scholars to participate. After a couple of years of smaller numbers of participants, the 2022-23 F-GAP cohort rebounded to 113 students. This is great!! We certainly hope to increase this for 2023-24, and that could make this year's F-GAP group the biggest ever.

Last year, the response to the call for students was slow, and consequently we were unable to hold our Career Paths workshop over the summer. This year, we are counting on Math Alliance Mentors to nominate students who fit the description of F-GAP, and to get those Scholars to finish their enrollment in time to be invited to the June workshop.

“
A
NEW
FACE
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Even though all our Mentors give Scholars great advice and support in preparing for graduate school, there is great value in connecting students with an additional mentor for the specific intent of helping them navigate their graduate school options. It gives them an additional perspective, and expertise, and the Career Paths workshop and Field of Dreams conference build a cohort which supports them through the application process and usually continues into graduate school. So, please, be sure to nominate your Scholars!

Since I mentioned the Field of Dreams Conference, I want to remind everyone that this year's meeting is November 3-5, in Atlanta. We are very excited, and our Agenda Committee has started to work on putting together this year's program. I hope that in the month or two we'll be announcing the major speakers. So look for that soon!

Finally, I want to thank Rebecca Lank for all the work she put into redesigning this newsletter. I think it looks great and I hope you enjoy reading it. Thanks Rebecca!!

What's Happening Next?

- Building Future Faculty Program NCSU March 29– 31
- ADJOINT Workshop MSRI Berkeley, CA June 19- 30
- JSM2023 Ontario, Canada August 5- 10
- 2023 Field of Dreams Conference Georgia State Univ. Nov. 3- 5

Math Alliance Executive Council



Questions?

Contact David Goldberg
at goldberg@purdue.edu

Johnny L. Houston Delivers Inaugural Johnny L. Houston Lecture at Purdue University

The Purdue University Mathematics Department has established a new lecture series named in honor of Johnny L. Houston. Dr. Houston received his B.S. at Morehouse College, M.S. at Atlanta University (now Clark Atlanta University), and his Ph.D. from Purdue in 1974 ("On the Theory of Fitting Classes in Certain Locally Finite Groups," under the direction of Eugene Schenkman). In 1969 he was one of the founders of the Black Cultural Center (BCC) at Purdue and served as its first director. From its solid foundation, the center has grown significantly and is now considered the gold standard among cultural centers. He was one of the founding members of the National Association of Mathematicians (NAM), also in 1969. Dr. Houston served as the Executive Secretary of NAM from 1975 until 2000 and was presented the NAM Lifetime Achievement Award in 1999.

Dr. Houston has had a long and distinguished research and administrative career, including positions at CAU/Atlanta University, Savannah State University, Stillman College, Fort Valley State University, and Elizabeth City State University, where he served as Vice Chancellor for Academic Affairs. He has also held several prestigious visiting positions, and traveled widely, delivering scholarly presentations as an invited speaker on 6 continents, 70 countries (25 in Africa), and all 50 states. Much more extensive biographical information is available at [Mathematically Gifted and Black](#), [Mathematicians of the African, Diaspora](#) and [The History Makers](#), among other places.

Dr. Houston agreed to inaugurate the lecture series by delivering the first lecture himself, and this occurred February 9 at Purdue. The Mathematics Department and the BCC collaborated to arrange a series of events that celebrated Dr. Houston's contributions to mathematics, the profession, and to our campus. The title of Dr. Houston's lecture was "Investigating/Visualizing Infinity in Finite Space", and the talk was followed by a reception at the BCC.

The Johnny L. Houston Lecture Series will be held annually during Black History Month at Purdue. The speakers will be selected based on their research contributions as well as their outreach and service to improve the climate for underrepresented groups, with a particular emphasis on underrepresented ethnic minorities in the mathematical, statistical, and quantitative sciences.



Dr. Johnny Houston addresses reception at Purdue's Black Cultural Center



Johnny Houston delivering the first Johnny L. Houston Lecture



Johnny and Virginia Houston with current Purdue students at the BCC. Professor Johnny Brown is far right, and BCC Senior Associate Director, Bill Caise is far left.

COSIBS- SUMMER FELLOWSHIP FOR UNDERGRADUATES

The Center for Innovative Design and Analysis (CIDA) is pleased to offer 2 10-week fellowships (May 30-August 4, 2023). Students will spend 4-weeks on campus working alongside collaborative biostatisticians within CIDA then participate in CoSIBS for the last 6-weeks. This fellowship is available for participants from disadvantaged backgrounds. [Learn if you meet the criteria.](#)

The Colorado Summer Institute in Biostatistics (CoSIBS) is a 6-week program which exposes undergraduate and early-stage graduate students to diverse research in the medical and public health setting using a wide array of the field of biostatistics and data science. Click here to learn more about the CoSIBS program.

CoSIBS Program Dates: June 26-August 4, 2023

BENEFITS

- Interact with and be mentored by biostatisticians and clinical investigators that are engaged in biomedical research.
- Learn the principles of applied biostatistics and data science.
- Receive a stipend commensurate with a summer job to allow students to participate in CoSIBS who may not otherwise be able to afford not to work over the summer.
- Receive credit for 4 semester hours at the University of Colorado Denver.
- Tuition and fees paid for by the program.
- Paid travel to and from Denver, room and meal stipend provided.

APPLICATION MATERIALS

- Personal statement of interest
- Electronic copies of college transcripts
- A letter of recommendation

[APPLY TODAY](#)

Completed applications are reviewed on a rolling basis from January through March. Final decisions will be made by April 30.

Department of Biostatistics and Informatics
Colorado School of Public Health
University of Colorado Anschutz Medical Campus
CoSIBS@cuanschutz.edu

Irvine Summer Institute in Biostatistics and Undergrad Data Science (July 10 - August 18, 2023)



ISI-BUDS is a six-week summer program introducing undergraduate students to modern methodology and practice of biostatistics and data science. The program will highlight applications in cutting edge biomedical research, will train students in fundamentals of biostatistics, data science, and computing, and will culminate in a team project co-supervised by statisticians and biomedical scientists.

Support: there are no costs or fees associated with the program. Moreover, accepted participants will be provided with:

- up to \$500 to cover travel expenses
- free housing that includes a meal plan
- \$1,000 stipend for incidental expenses

Application: check your eligibility and [apply here](#). We strongly encourage applications from students from historically excluded groups.

Funding: ISI-BUDS is supported by the National Institute Of Allergy And Infectious Diseases of the National Institutes of Health under Award Number R25AI170491, as one of the Summer Institutes in Biostatistics (SIBS) and Data Science. To learn about other SIBS visit the [program webpage](#).

Important Dates

- Applications due - March 24
- Results announced (on a rolling basis) - starting April 14
- ISI-BUDS dates - July 10 - Aug 18

AWM NEWS

AWM has announced the 2023 Class of AWM Fellows and several of these are Math Alliance Mentors:

- Jennifer Balakrishnan*- Boston University
- Emma K.T. Benn*- Icahn School of Medicine at Mount Sinai
- Minerva Cordero*- University of Texas at Arlington
- Lisa Fauci*- Tulane University
- Sue Geller- Texas A&M University
- Raegan Higgins*- Texas Tech. University
- Bryna Kra- Northwestern University
- Omayra Ortega*- Sonoma State University
- Rachel Pries- Colorado State University
- Keri Sather-Wagstaff*- Clemson University and the National Science Foundation
- Kimberly Sellers- Georgetown University and the U. S. Census Bureau
- Konstantina Trivisa- University of Maryland
- Sherlby Wilson- Johns Hopkins University Applied Physics Laboratory

The 2023 Louise Hay Award for Contributions to Mathematics Education was awarded to Nicole Joseph, Associate Professor of mathematics education at Vanderbilt University.

The 2023 M. Gweneth Humphreys Award for Mentorship of Undergraduate Women in Mathematics was awarded to Erika Tatiana Camacho*, Fulbright Research Scholar at the Institut de la Vision-Sorbonne Université and Professor of Mathematical & Statistical Sciences at Arizona State University

All of this and more can be found in the [March/April edition of the AWM Newsletter](#)

*designates a Math Alliance Mentor

2023 BAMB Program Accepting Applications



BAMB!

Up to \$20,000 in scholarships!

QR code

Fall 2023

Bolstering the Advancement of Masters in Mathematics

Deadline:
Saturday 4.15.23

NSF

CALIFORNIA STATE UNIVERSITY FRESNO

SF STATE

CalPoly Pomona

[APPLY NOW](#)

BAMB! Application Deadline:
Saturday, April 15th, 2023

Lathisms Scholarships Accepting Applications

Lathisms Scholarship



This scholarship aims to support Hispanic/Latinx students interested in pursuing a career focused on mathematical sciences!



Eligibility:

- Be Latinx/Hispanic;
- Be interested pursuing a career in the mathematical sciences; and
- Be high school juniors/seniors, high school graduates, current / prospective college students, or current / prospective graduate students located in the United States.

**Deadline:
March 31st**



We especially encourage undocumented individuals, TPS beneficiaries, and DACA recipients to apply!

More information :

 <https://www.lathisms.org/scholarships>

REU at UTRGV Accepting Applications

REU Program on Applied Mathematics and Computational and Data Science 2023

The University of Texas Rio Grande Valley

School of Mathematical & Statistical Sciences



Participating students will receive:

- a stipend of \$5,400;
- accommodations;
- \$1000 for travel expenses, which are incurred in the roundtrip travel to Edinburg, TX or to present the research work at a conference; and
- \$900 for subsistence.



The School of Mathematical and Statistical Sciences (SMSS) is excited to announce applications for the NSF Research Experiences for Undergraduates (REU) site at The University of Texas Rio Grande Valley in Summer 2023.

The program will run from May 29 to July 29, 2023.

Applicants must be full-time undergraduate students pursuing a major in the mathematical or statistical sciences in Fall 2023.

Applicants must be US citizens or permanent residents of the United States in accordance with NSF regulations.

Review of applications will begin on March 15, 2023 and continue till spots are filled.

Topics:

1. Wave phenomena and mathematical modeling

Mentors: Dr. Erwin Suazo and Dr. Josef Sifuentes

2. Mathematical modeling of spatial processes and deep spatial learning

Mentors: Dr. Tamer Oraby, Dr. Hansapani Rodrigo, and Dr. Michael Lindstrom

The University of Texas
Rio Grande Valley

***We encourage applications from women and underrepresented groups in Mathematics.**



Submit your application

For more information send an email to erwin.suazo@utrgv.edu or visit the REU's website at <https://www.utrgv.edu/smss-nsf-reu/index.htm>

Please submit your application at: <https://forms.office.com/r/TqhNGHQvGh>

REU at UTRGV Accepting Applications





I-ACED

IMPROVING ACCESS TO CAREER & EDUCATIONAL DEVELOPMENT
Support for this work was provided by the National Science Foundation under awards 2130515, 2130328, 2130317, and 2130321.

Up to \$10,000 per year in scholarships for master's degrees

Technical tours plus paid internships and research experiences

Cross-institutional cohorts plus mentoring from faculty & practitioners

Choose a *technical track*, then choose a *degree program in that track* at *any partner institution*: Jackson State University, Prairie View A&M University, Rice University, or Texas Southern University.



Biotechnology

- Prairie View (MS)
 - Computer Science
 - Electrical & Computer Engineering
 - Mechanical Engineering
 - Chemical Engineering
- Rice (Professional Masters)
 - Bioengineering
 - Chemical Engineering



Sustainability/Resilience

- Jackson State (MS)
 - Coastal Engineering
- Prairie View (MS)
 - Civil & Environmental Engineering
- Texas Southern (MS)
 - Environmental Toxicology
 - Transportation Planning & Management



Digital Twinning

- Jackson State (MS)
 - Computer Science
 - Computational Data Enabled Science & Engineering
- Rice (Professional Masters)
 - Data Science
 - Computational & Applied Mathematics
 - Industrial Engineering
- Texas Southern (MS)
 - Computer Science
 - Mathematics

Internships, research experiences and mentoring supported in part by the Army Engineer Research & Development Center (ERDC).

Learn more and apply online! <https://i-aced.org>



Partner
Institution

POSITION AT GEORGIA STATE UNIVERSITY

The Department of Mathematics and Statistics at Atlanta campus of Georgia State University invites applications for two lecturer positions in mathematics and statistics beginning August 2023.

Essential Qualifications:

- Ph.D. in mathematics, statistics or related field at time of appointment;
- Ability to teach core undergraduate mathematics and statistics courses;
- Knowledge and experience with instructional technology;
- Ability to effectively deliver instruction in online and face-to-face formats;
- Interest in teaching and mentoring students of diverse backgrounds.

Preferred Qualifications:

One or more years of effective full-time college/university teaching experience in mathematics or statistics. Lecturers at Georgia State University are full-time non-tenure track faculty with both teaching and service requirements who directly contribute to the mission of the university. Lecturers have the opportunity for promotion to Senior Lecture and Principal Senior Lecturer. Our lecturers are full members of the department's intellectual community and leadership team. In mathematics and statistics, lecturers teach 12 credit hours per semester and primarily teach and coordinate lower division undergraduate courses including, but not limited to, college algebra, pre-calculus, calculus, elementary statistics, differential equations, and linear algebra.

Georgia State University, the largest university in Georgia, is an enterprising urban research university located in downtown Atlanta and home to one of the most diverse student bodies in the country. It is a national leader in innovative instruction and academic success of diverse populations. We strongly encourage applications from members of groups traditionally underrepresented in STEM. The College of Arts & Sciences supports faculty professional success through mentoring programs and representation of faculty from all ranks in college-level program development. GSU is an institutional member of the National Center for Faculty Development & Diversity.

The department currently consists of 22 tenure track faculty, 12 lecturers, and 3 academic professionals (of various ranks). The department offers B.S., M.S., and Ph.D. degrees in mathematics and statistics. For more information please visit our website at <https://www.mathstat.gsu.edu/>.

Applications should be submitted directly to <http://www.mathjobs.org>.

The following items are required:

1. Application cover letter
2. Curriculum vitae
3. Teaching statement with evidence of aptitude or ability to teach at the undergraduate and graduate levels with a diverse student body, including the mentoring of women and under-represented minorities (at most 2 pages)
4. Transcripts of graduate work
5. Student evaluations and other evidence of success in instruction, if applicable
6. Three letters of reference (two must address candidate's instructional abilities).

Review of applications will begin on March 20, 2023, and will continue until positions are filled. An offer of employment will be conditional upon background verification. Georgia State University is an Equal Opportunity Employer and does not discriminate against applicants due to race, ethnicity, gender, veteran status, or on the basis of disability or any other federal, state, or local protected class.



Partner
Institution

POSITION AT GEORGIA STATE UNIVERSITY

The Department of Mathematics and Statistics at Georgia State University invites applications to fill a tenure-track Assistant Professor position in Statistics with a start date of August 2023.

Candidates in all areas of statistics are encouraged to apply. At the time of appointment, applicants should have a PhD in Statistics, Biostatistics, Data Science, or a closely related field. Preferred candidates will be expected to demonstrate a commitment to excellence in research and teaching in applied statistics and data science, as well as mentoring undergraduate and graduate students of diverse backgrounds, and have a strong desire to work in a cross-disciplinary, collaborative environment.

The Department offers BS in Mathematics, MS in Mathematics with no concentration or concentrations in Bioinformatics, Biostatistics, Discrete Mathematics, Scientific Computing, Statistics, as well as Statistics and Allied Field, and PhD in Mathematics and Statistics with concentrations in Mathematics, Bioinformatics, and Biostatistics. Faculty members in the department established nationally and internationally recognized research programs in both mathematics and statistics, including applied statistics, biostatistics, data science, dynamical systems, complex networks, machine learning, inverse problems, mathematical biology, optimization, computational mathematics, systems biology, modeling neural, cardiovascular, and multi-organ systems, physical and biomedical image analysis, as well as in the collaboration with other GSU departments in epidemiology, pathogen genetics, immunology, and inflammation, and translational biomedical sciences. For more information please visit our website at <https://www.mathstat.gsu.edu/>.

GSU, the largest university in Georgia, is an enterprising urban research university located in downtown Atlanta and home to one of the most diverse student bodies in the country. It is a national leader in applying innovative measures to drive student success and research growth. Georgia State University is committed to diversifying its faculty and generating innovative research. We strongly encourage applications from members of underrepresented groups.

Applicants should submit: 1) a cover letter outlining qualifications and research interests, 2) a curriculum vitae with a publication list and (optional) a teaching and funding list, 3) a research statement, including current and future research agenda, and 4) a teaching statement with evidence of aptitude or ability to teach at the undergraduate and graduate levels with a diverse student body, including the mentoring of women and under-represented minorities. All materials should be submitted online at <http://www.mathjobs.org>.

Applicants should also arrange for three letters of recommendation to be submitted online at <http://www.mathjobs.org>.

A formal review of applications will begin on February 8, 2023, and will continue until the position is filled. An offer of employment will be conditional upon background verification. Georgia State University is an Equal Opportunity Employer and does not discriminate against applicants due to race, ethnicity, gender, veteran status, or on the basis of disability or any other federal, state, or local protected class.