Upcoming Events

Thoughts from the Director...

David Goldberg
Executive Director of the Math Alliance

It's October, and that means a couple of things for the Math Alliance: We are getting close to the **Field of Dreams Conference (Nov. 15-17 in St. Louis)!!!**, and our staff (aka Rebecca) is way too busy with the conference to put together both a September and October newsletter. So, this is a time we combine the two monthly newsletters. Some of the highlights of this year's conference will be our featured speakers – S. James Gates (Brown University) giving our Connections lecture, David Hummels (Purdue University), delivering our Mathematical Sciences Lecture, and Roselynn Williams (Florida A&M University) giving our Banquet Keynote address; we will have our second annual Career Fair, with several academic, industry, and government employers seeking to make contact with new and recent Ph.D.s, our annual Graduate Fair, with over 60 tables. We'll also be celebrating our recent Ph.D.s, and we'll have some important announcements about the future of the Alliance. We hope to see everyone there!!!

I was happy to have Phil Kutzko write the directors notes for the August newsletter, which in turn pointed our community to the wonderful recent article by Bill Vélez in the Notices of the AMS. I would like to pick up on the themes both Phil and Bill mentioned of understanding and addressing our history and its continuing impact, particularly with regard to what Bill calls the TEAM. Phil mentioned the New York Times's 1619 Project, marking the 400th year since the beginning of slavery in the Americas. About five or six months ago, I heard Senator Tim Kane of Virginia comment upon this historical landmark, and put it into context in the following terms. It's 400 years since the first African slaves were brought to Virginia. For the first 250 years, or 5/8 of that time, the practice of slavery was legal. It was another 100 years, or an additional ¼ of that history, before the Civil Rights movement, and its accompanying legislation affirmed the full legal rights for descendants of slaves. So, slavery, and the period of legal segregation, comprises 7/8 of our history, and it is only the last 50 years, or 1/8 of that history that we have begun to address the impact. One of the installments of the 1619 Project (Episode 2, The Economy that Slavery Built) focuses on the extent to which the institution of slavery is responsible for the creation of so much of our nation's continuing wealth. In this installment they make a couple of very salient points, which address the lasting effects of slavery today. First, that plantation owners would mortgage their slaves to fund their agricultural pursuits because while their land and their homes were relatively worthless, their slaves were extremely valuable. The second point was so striking to me that as I listened to the podcast, I had to keep backing up, to make sure I heard it right, and I went to the transcript so I could see it in print. "…at the height of slavery, the combined value of enslaved workers exceeded that of all the railroads and all the factories in the nation." This is a startling piece of data. While one must be careful in reaching historical conclusions from quantitative information, the fact that this statement could even be supported by data brings a heightened sense of the continued impact of legalized slavery. As I once heard Michael Eric Dyson put it, "We're not all guilty, but we're all responsible." We should all be engaging in a frank and difficult conversation about the reality and lasting effects of our past and the best way to move forward.

It's Almost Here...

The 2019 Field of Dreams Conference
Nov. 15-17, 2019 in St. Louis, MO

In Partnership with Washington University in St. Louis

- *Want more information about the Conference?*

- *Register for the Conference!*
  Deadline to register is November 6th at 11:59 pm EST.

New Math Alliance YouTube Channel

The Math Alliance is pleased to announce that our new Youtube Channel is now active!! The first videos there are of 12 sessions from the 2018 Field of Dreams Conference!!!! For any who missed the sessions, or just want you revisit them, they are really great viewing. For those of you planning to attend your first Field of Dreams Conference next month, they will show a bit of what to expect! We want to thank our videographer, Joshua Edmunds, and our Program Manager Rebecca Lank, for all their work to create this new channel for us!! There is an older channel with some great videos folks might want to watch as well. We are hoping to add more video resources here, and remind everyone of the videos available at the June 2019 IMA workshop.

Things to note in the AMS Notices

- "A word from…" AMS Executive Director, and Alliance Mentor, Catherine Roberts

- Featured article by Alliance Mentor, Julia Bergner, "Modeling homotopy theories"

- Article in Early Career section by Alliance Mentor Jessica Sidman, "Congratulations! You have tenure! And now What?"

- "Should I quit mathematics" by former MAA President, Francis Su

- "Sturm und train" by Alliance Mentor Danny Calegari appears in short stories section

- AMS Associate Executive Director, and Director of the AMS Office of Government Relations, and Alliance Mentor, Karen Saxe, delivers report on "Activities of the office of government relations" Statistics on Women in Mathematics

- Alliance Scholar, and 2019 Ph.D. Vanessa River Quiñones named editor of AMS Blog on Math Blogs. Congratulations Vanessa!!!

- JMM 2020 Program

Items of interest in AMSTATNEWS

- "JSM 2019, Reminiscing on the Impact" features several Alliance Mentors:
  * Talithia Williams addressing Diversity Workshop
  * Sally Thurston named Fellow of the ASA
  * Photos of the David Blackwell Centennial, including Alliance Mentor Jacqueline Hughes-Oliver;

- Highlights of ASA Board Meeting including description of presentation by Alliance Executive Director, David Goldberg to the Board:
    David Goldberg of Purdue University updated the board on the activities of the Math Alliance. The board continues to be interested in sponsoring activities of the alliance. Goldberg said he would keep the board informed of opportunities.

- Alliance Mentor David Hunter, "SDSS 2020 to Feature Refereed Submissions"

- Diversity Workshop and Mentoring Program Celebrates 10 Years

- Statistics Workshops for Math and Science Teachers Held in Denver

- Iowa State Teams Finish in Top 10 at International Data Mining Competition

Math Alliance to hold AMS
Special Session at JMM

The Math Alliance will hold its third annual session at the Joint Math Meetings in Denver. This year's session will be **Wednesday, January 15, in. Room 401, Colorado Convention Center.**

It is denoted as **SS 107A** in the program, and is entitled *If You Build It They Will Come: Presentations by Scholars in the National Alliance for Doctoral Studies in the Mathematical Sciences.* This year's session will feature 14 talks, each 20 minutes in length, given by an Alliance Predoctoral Scholar who is either a recent Ph.D., or is expected to complete a Ph.D. by August 2020. The schedule is posted on line, with titles. Below we give the schedule with the abstract number as they appear in the JMM program.

Please consider attending some or all of this session and showing support for all our doctorates!

	Name	Abstract Number
8:00-8:20	Ariel Bowman	1154-34-264
8:30-8:50	Steve Collazos	1154-37-2430
9:00-9:20	Chartese Darnel Jones	1154-65-2149
9:30-9:50	Joan Ponce	1154-92-1454
10:00-10:20	Ricela Feliciano-Semidei	1154-97-397
10:30-10:50	Mela Hardin	1154-60-689

Wednesday, January 15 afternoon (2:15-6:15)

2:15-2:35	Danielle Middlebrooks	1154-60-1200
2:45-3:05	Simone Sisneros-Thiry	1154-11-2315
3:15-3:35	Dwight Anderson Williams II	1154-17-1216
3:45-4:05	Andrew Alaniz	1154-14-2694
4:15-4:35	Israel A Almodovar Rivera	1154-62-2472
4:45-5:05	Camila Alexandra Ramirez	1154-68-1800
5:15-5:35	Marie V Ozanne	1154-62-1152
5:45-6:05	Lyda Pamela Urresta	1154-81-2245

Alliance Mentor Pamela Harris to give
Keynote Address at SACNAS 2019

The Society for Advancement of Chicanos and Native Americans in Science (SACNAS) has announced its six keynote speakers for its 2019 national conference in Honolulu, Hawaii, October 21-November 2.

We are very proud to know one of our mentors, Professor Pamela Harris, of Williams College, has been named to give one of these six keynote talks! The SACNAS conference is attended by several thousand participants across STEM and is among the largest conferences focusing on diversity. Videos of keynote addresses at recent SACNAS conferences are available at the SACNAS website as well.

The Data Incubator

Program: The Data Incubator is an intensive 8 week fellowship that prepares masters students, PhDs, and postdocs in STEM and social science fields seeking industry careers as data scientists. The program is free for Fellows and supported by sponsorships from hundreds of employers across multiple industries. In response to the overwhelming interest in our earlier sessions, we will be holding another fellowship.

Who Should Apply: Anyone who has already obtained a masters or PhD degree or who is within one year of graduating with a masters or PhD is welcome to apply. Applications from international students are welcome. Everyone else is encouraged to sign-up for a future session.

Locations: In addition to the below in-person locations, we will have a remote *online* session:
- New York City
- San Francisco Bay Area
- Boston
- Washington, DC.

Dates: All sections will be from 2020-01-13 to 2020-03-06.

Application Link: https://www.thedataincubator.com/fellowship.html#apply?ref=wZXRoaWNzQHB1cmR1ZS5lZHUK

Early Deadline: 2019-10-14. **Regular Deadline:** 2019-10-21.

We are assessing and interviewing candidates who apply for the Early Deadline first and then based on remaining availability, will take candidates who applied for the Regular Deadline on a first-come first-serve basis.

Data Science and Image Analysis Conference
of the Pacific Northwest

The Department of Mathematics and Statistics at Washington State University, in cooperation with the Association for Women in Mathematics (AWM), will host the Data Science and Image Analysis Conference of the Pacific Northwest in Pullman, Washington, February 29th and March 1st, 2020.

Please visit the Student Proposals page of the website for information on applying for a travel award for students, postdocs, and early career researchers, as provided for in a National Science Foundation (NSF) conference grant.

For more info, please visit datascienceandimageanalysis.com.

Join us for the 2020 Fostering Diversity in Biostatistics Workshop

The Eastern North American Region (ENAR) of the International Biometric Society will be hosting the 2020 Fostering Diversity in Biostatistics Workshop. The workshop will focus on connecting underrepresented minority students interested in biostatistics with professional (bio)statisticians in academia, government and industry.

Sunday, March 22, 2020
10:30am-6:30pm

JW Marriott Nashville
201 8th Ave S,
Nashville, TN 37203

Keynote Speaker:
Dr. Adrian Coles
Senior Research Scientist
Eli Lilly and Company

The workshop will feature:

• Hands-on computing activities for high school and undergraduate students.

• Roundtable discussions for students focusing on preparing for a graduate degree in biostatistics and transitioning to the career market.

• Roundtable discussions for professionals focusing on supporting, recruiting, and retaining students.

• Panel discussions between students and professionals focusing on career opportunities and mentoring.

• An interactive networking fair among undergraduates and graduate students and representatives from schools offering MS and PhD degrees in Biostatistics.

Registration will open September 2019: https://www.enar.org/meetings/FosteringDiversity/
Lunch will be provided for all registered participants. Travel compensation is available. Registration is required for consideration.

2019 Workshop Attendees

To learn more, please contact the workshop co-chairs:

Felicia Simpson, PhD
Assistant Professor
Department of Mathematics
Winston-Salem State University
Phone: (336) 750-2489
Email: griffinfr@wssu.edu

Loni Phillip Tabb, PhD
Associate Professor
Department of Epidemiology and Biostatistics
Drexel University
Phone: (267) 359-6217
Email: lpp22@drexel.edu

ENAR

Jayhawk Sneak Peek 2019

Visit Lawrence, Kansas!

The Mathematics Department at the University of Kansas invites you to attend our Jayhawk Math Sneak Peek visit to be held at the Lawrence campus. This special event will introduce promising potential applicants from historically underrepresented groups to our department.

We will cover the costs of airfare (or up to $200 if driving), two nights of lodging and meals. Participants will have the opportunity to meet with our faculty and graduate students, learn about our department and graduate program, attend classes, tour campus, and find out why Lawrence is consistently rated as one of the top college towns in America!

If you are interested in attending, please submit a brief letter of interest, an unofficial transcript, and a brief statement of support from a faculty advisor to Professor Mat Johnson, Graduate Director of Admissions, at matjohn@ku.edu by October 25, 2019. Please see jhawkmath2019.ku.edu or mathematics.ku.edu/graduate-program for more information on the event and our graduate program.

MAA Project NExT
NEW EXPERIENCES IN TEACHING

Launch the NExT stage of your career

The first round of applications for the 2020 cohort of MAA Project NExT has a deadline of October 15, 2019. Applications can be found at projectnext.maa.org. New(ish) faculty who are already in full-time teaching positions are strongly encouraged to use this deadline. Decisions will be made by December 1, 2019. Those accepting positions during this academic year (to start Fall 2020) may use the second application deadline of April 15, 2020.

MAA Project NExT (New Experiences in Teaching) is a year-long professional development program for new or recent PhDs in the mathematical sciences. The program is designed to connect new faculty with expert teachers and leaders in the mathematics community and address the three main aspects of an academic career: teaching, research, and service.

Recent program sessions have included:

- getting your research and grant-writing off to a good start,
- innovative teaching and assessment methods and why they work,
- finding your niche in the profession,
- attracting and retaining underrepresented students,
- balancing teaching, research, and service demands,
- starting an undergraduate research program, and
- preparing for tenure.

MAA Project NExT Fellows join an active community of faculty who have become award-winning teachers, innovators on their campuses, active members of the MAA, and leaders in the profession.

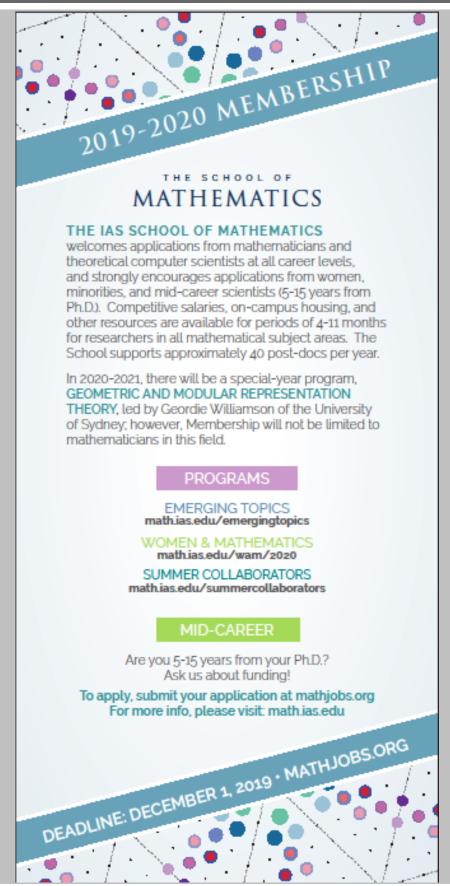MAA Project NExT welcomes applications from new and recent PhDs in postdoctoral, tenure-track, and visiting positions. We particularly encourage applicants from underrepresented groups, including women and minorities. Applications can be found at projectnext.maa.org.

Project NExTers (Silver '19) at MAA MathFest in Cincinnati.

Application deadline: October 15, 2019
projectnext.maa.org • projectnext@maa.org

2019-2020 MEMBERSHIP

THE SCHOOL OF
MATHEMATICS

THE IAS SCHOOL OF MATHEMATICS
welcomes applications from mathematicians and
theoretical computer scientists at all career levels,
and strongly encourages applications from women,
minorities, and mid-career scientists (5-15 years from
Ph.D.). Competitive salaries, on-campus housing, and
other resources are available for periods of 4-11 months
for researchers in all mathematical subject areas. The
School supports approximately 40 post-docs per year.

In 2020-2021, there will be a special-year program,
**GEOMETRIC AND MODULAR REPRESENTATION
THEORY**, led by Geordie Williamson of the University
of Sydney; however, Membership will not be limited to
mathematicians in this field.

PROGRAMS

EMERGING TOPICS
math.ias.edu/emergingtopics

WOMEN & MATHEMATICS
math.ias.edu/wam/2020

SUMMER COLLABORATORS
math.ias.edu/summercollaborators

MID-CAREER

Are you 5-15 years from your Ph.D.?
Ask us about funding!

To apply, submit your application at mathjobs.org
For more info, please visit: math.ias.edu

DEADLINE: DECEMBER 1, 2019 · MATHJOBS.ORG

Two Tenure-Track Positions at the
Harvard T.H. Chan School of Public Health

HARVARD T.H. CHAN
SCHOOL OF PUBLIC HEALTH
Department of Biostatistics

Assistant/Associate Professor of Biostatistics
and
Assistant/Associate Professor of Epidemiology
Harvard T.H. Chan School of Public Health

The Department of Biostatistics and the Department of Epidemiology at the Harvard T.H. Chan School of Public Health seek candidates to fill two tenure-track positions at the assistant or associate professor level. We envision recruiting one candidate to a position with a primary appointment in the Department of Biostatistics and the other to a position with a primary appointment in the Department of Epidemiology, but each with a secondary appointment in the other department. For both positions, we seek candidates with a strong background in theory and methods, demonstrated expertise in the development of new methods, and an interest in collaborative research in public health and biomedical sciences.

We are looking for candidates with expertise in areas such as causal inference, statistical genetics, measurement or measurement error, and data science (including computational science, machine learning and related methods). Candidates should be deeply committed to the development and application of quantitative methods and computation, with interest in the health sciences, and should be enthusiastic about teaching, training, and mentorship through our graduate programs.

Responsibilities will include methodological and collaborative research, teaching, and supervision of graduate students. Qualified applicants will be expected to have a doctoral degree in one of the following disciplines: epidemiology, biostatistics, statistics, mathematics, computer science, computational biology, or medicine; applicants from related fields are also welcome. Candidates are required to have their doctoral degree by the time the appointment begins, and academic rank will be determined in accordance with the successful candidate's experience and accomplishments.

We welcome candidates who are interested in mentoring diverse students and teaching in an international classroom setting that fosters belonging.

The Departments of Biostatistics and Epidemiology each offer an exceptional environment in which to pursue research and education in quantitative public health while being at the forefront of efforts to benefit the health of populations worldwide. The departments work closely together and many faculty members have joint appointments. Areas of expertise in Epidemiology include epidemiologic methods, epidemiology of chronic diseases, epidemiology of infectious diseases, and clinical epidemiology. Areas of expertise in Biostatistics include design and analysis of clinical trials and observational studies, missing data, precision health, network analysis, computational and systems biology, microbiome analysis, neurostatistics, and environmental statistics. Areas of shared expertise include statistical genetics and genomics, causal inference, and data science. Research in both departments is enabled by access to a number of large longitudinal studies and extensive collaboration with academic departments across Harvard programs and at the world-class Harvard affiliated hospitals.

Both departments pride themselves on having strong mentoring and a supportive environment for assistant and associate professors. Our unique and diverse community provides unparalleled collaborative opportunities for career development.

Please apply to: http://academicpositions.harvard.edu/postings/9218

For questions, please contact: Megan Marchese, Search Administrator, Department of Epidemiology
Harvard T.H. Chan School of Public Health , Email: marchese@hsph.harvard.edu

The Harvard T.H. Chan School of Public Health seeks to find, develop, promote, and retain the world's best scholars. We are committed to upholding the values of diversity, equity, and inclusion in our school and the communities we serve. Women and individuals from underrepresented racial and ethnic minority groups are strongly encouraged to apply.

Harvard University is an equal opportunity employer and all qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability status, protected veteran status, gender identity, sexual orientation, pregnancy and pregnancy-related conditions or any other characteristic protected by law.

Information on resources for career development and work/life balance at Harvard T.H. Chan SPH can be found at:
http://hsph.me/resources-career-development-and-work-life-balance.

The search will formally close on December 15, 2019. However, the committee will review applications on a rolling basis, beginning immediately. Applications may not be reviewed if the application, including letters of recommendation, are not complete.

Tenure-track Assistant Professor in the Department of Mathematics at the University of Kentucky

The Department of Mathematics at the University of Kentucky in Lexington, Kentucky invites applications for a full-time faculty position at the tenure-track Assistant Professor level beginning in Fall 2020. A successful candidate is expected to pursue a vigorous research program and to deliver high quality teaching to both graduate and undergraduate students. We encourage applications from candidates with research interests in mathematical biology, broadly defined to include, for example, connections to machine learning, stochastic processes or inverse problems. The Department will also consider applicants with other research interests that are compatible with those of the faculty.

Applicants should have a Ph.D. degree in mathematics or closely related fields by the time the appointment begins and are expected to present evidence of excellence in research and teaching.

In order to be considered a candidate, applicants will need to complete the following two steps:

1. Submit your job market materials to Math Jobs.org. These materials should include: the standard AMS Cover Sheet for
   Academic Employment, a curriculum vitae, a statement about current and future research, a statement on teaching experience and quantitative assessments of teaching, a statement on inclusion, diversity, and equity (described below), and at least three (3) letters of reference addressing the applicant's research and one (1) letter of reference addressing the applicant's teaching. All application materials must be submitted online at 2. Complete an application within the University of Kentucky employment system by visiting: http://ukjobs.uky.edu/postings/251575.

2. As a department and university, we are strongly committed to creating an inclusive and effective teaching, learning, research, and working environment for all (see http://www.uky.edu/sotu/diversity-and-inclusivity). For your statement on inclusion, diversity, and equity, in one to two pages, applicants are asked to reflect on their commitments, approaches, and insights related to inclusion, diversity, and equity.

Applications will be reviewed as they are received. Applications submitted **by November 15, 2019** will receive full consideration. To apply visit: https://www.mathjobs.org/jobs/jobs/14755.

For more information about the department, please visit http://www.math.uky.edu.

Department of Mathematics
University of Kentucky
715 Patterson Office Tower
Lexington, KY 40506-0027, USA

The University of Kentucky is an Equal Opportunity Employer and encourages applications from veterans, individuals with
disabilities, women, African Americans, and all minorities.

List of Position Announcements

University/Institution	Type of Position(s)	Link for Applications
Birmingham-Southern College	Tenure-track Assistant Professor of Mathematics	MathJobs.org
Hillsdale College	Tenure-track Position in Mathematics	MathJobs.org
Virgina Tech	Tenure-track Assistant Professor of Mathematics	MathJobs.org
California State University, LA	Tenure-track Assoc/Full Professor of Mathematics	MathJobs.org
University of Dayton	Tenure-track Position in Partial Differential Equations	Univ. of Dayton
Southwestern University	Tenure-track Assistant Professor of Mathematics	Interfolio
Ithaca College	Two Tenure-track Assistant Professors of Mathematics	Ithaca College
The University of Texas at Arlington	Tenure-Stream Position in Data Science	MathJobs.org
The University of Texas at Arlington	Tenure-Track Position in Computational Neuroscience	MathJobs.org
Bucknell University	Two Tenure-track Positions in Mathematics	MathJobs.org
Bucknell University	Assistant Professor of Data Science	Bucknell University
Carleton College	Two Tenure-track Positions in Mathematics	MathJobs.org
Loyola Marymount University	Tenure-track Assistant Professor of Mathematics	Loyola Marymount Univ.
Pomona College	Tenure-track Assistant Professor of Mathematics	MathJobs.org
Washington State University	Tenure-track Assistant Professor in Data Analytics	WSU
Rider University	Tenure-track Assistant Professor of Mathematics	Rider Univ.
California State University, Fresno	Tenure-track Assistant Professor in Mathematics Education	Fresno State
Grand Valley State University	Tenure-track Assistant Professor of Mathematics	GVSU
Smith College	Two Tenure-track Positions in Mathematics & Statistics	Interfolio
Mount Holyoke College	Tenure-track Assistant Professor in Statistics	MathJobs.org
San José State University	Two Tenure-track Positions in Applied Mathematics	MathJobs.org
University of St. Thomas	Tenure-track Assistant Professor in Mathematics	St. Thomas