Thoughts from the Director...

David Goldberg
Executive Director of the Math Alliance

New year off to a fast start, and we broke 1,000 Mentors!!

Happy New Year to all the Math Alliance Community. We have had a great start to the year and are very excited about the activities we see coming up. One important milestone to take note of is the we now have more than 1,000 Alliance Mentors across the country!! (1,007 as of this writing.) Wow!! Thanks to all of our mentors for all they contribute to our effort. Even though this is a huge milestone, we still have large swathes of the country with limited or no mentors, so we need to do more still!!

The Joint Mathematics Meetings were very busy and filled with interesting presentations and discussions and it was nice to see so many of you there. On Wednesday, January 15, we held our 3rd annual session featuring Math Alliance Scholars who are now (or will soon become) PhDs! We saw 13 wonderful talks and we are so thrilled to see the breadth and depth of the research being carried out by students who have been Alliance Scholars since they were undergraduates. I was also pleased to see so many folks from the Math Alliance Community (and others) come to hear these talks. Thanks to all who attended! We have asked the speakers for permission to post their slides, and we will do so soon on our media page, so look for that soon. Also to be posted there soon will be videos from the 2019 Field of Dreams Conference, and other things, so check back from time to time! This gives me a chance to remind everyone that the 2020 Field of Dreams Conference is November 6-8, in Minneapolis, MN, and is being co-organized with our friends at the IMA. We are also working with IMA on our next summer workshop for the 2020-21 F-GAP cohort, so look for announcements about F-GAP, nominating your students, and the workshop soon.

We are just a week past MLK day, and, as usual, I can't let an event like that go without writing a little bit about it. I was fortunate to attend an event at Purdue which is the first in a semester long series on "Democracy, Civility, and Freedom of Expression". This whole series is organized by our Vice Provost for Diversity and Inclusion, John Gates, who is a big supporter of the Math Alliance, and whose office provided significant support for the 2019 Field of Dreams Conference (Thanks Provost Gates!!). The MLK celebration and featured former Arizona Senator Jeff Flake, and former Attorney General Loretta Lynch, in a moderated discussion on the semester's theme. It was a very interesting, thoughtful, and candid discussion, which made the obvious point that we can and should all bring more civility to our political discourse. That is, we can argue and have serious disagreements, but we demean and devalue our whole democratic process when we cross the line. Even if those we disagree with go there, we have to try to keep from going there with them. That was among the things Dr. King preached about, and it is as true today as ever (if not more so). I took away many other things but wanted to share two. Flake made the observation that our legislators spend so little time in Washington, they no longer know each other as people, and that makes it easier to be less civil towards one another. Looking through the lens the opposite way, his point brings back a theme of Dr. King which our Director, Phil Kutzko taught me about many years ago, namely that the "fact of contact" is key to resolving many of our issues. Another thing I took away from the evening was Lynch's response to the question what would Dr. King be doing today. She claimed (rightly I believe) he would be "laser focused" on voting rights. It is sad that 55 years after the Voting Rights Act we have gone backwards, and still need to fight to protect every citizens right to vote. It is an election year, so please, please vote. As an individual, I actually don't care who you vote for, as much as I care that you vote. Our democracy works best when everyone participates. Of course, I have a preference as to outcomes, but I am more concerned that we might not get the outcome we would have if everyone who wanted to vote, and has a right to vote, was able to cast their ballot and have it counted properly. Unfortunately, we see too many cases where this doesn't hold. So, register if you haven't yet, and if you are registered, take the time to check before the election that your voting board has your registration active. Let's all be sure that when we show up to vote, we can. I may disagree with you, but I want to hear your voice and have your vote counted.

Math Alliance Affiliated REU List

The [annotated list of summer research programs that has been complied by William Y. Velez](#) has been updated for summer 2020.

If you are looking for an REU for this summer, please check out our REU webpage: https://mathalliance.org/math-alliance-partners/affiliates/

Now Accepting 2020-21 F-GAP Nominations!

The Facilitated Graduate Applications Process (F-GAP) is an Alliance program that provides undergraduate Juniors and Master's students with the advice and assistance needed to begin the application process as they apply to graduate programs.

F-GAP will help students choose departments that are most appropriate to their goals and aspirations. The Alliance Community will work with the student as they prepare their applications to graduate programs and will assist in tracking the progress of their applications through the admissions process. The Alliance Community will assist in maximizing the chances that Alliance Scholars will be admitted, with support, to a department or program where they will thrive. We will pair each eligible student with one of our Doctoral Alliance Mentors who will work with the students local mentor to create a mentoring team that will aid in the application process.

If you know of a Juniors or Master's student who will be graduating in the Spring of 2020 and will be applying to graduate programs for Fall 2021 please submit student nominations here: https://mathalliance.org/2020-fgap-nomination-form/. As part of this submission, you will be asked to check a box stating that you have read the document, ["Selecting students for the F-GAP program: FAQs."](#)

IOWA STATE UNIVERSITY
Department of Mathematics

POSTBACCALAUREATE CERTIFICATE IN MATHEMATICS

1 year program that offers students who have received a Bachelor's degree preparation for a PhD program in Mathematics

Studies in both pure and applied mathematics

Program consists of 4 graduate courses, serving as teaching assistants in undergraduate courses, mentoring, attending conferences, and aid in applying to graduate programs

Funding for Tuition and approximately a $2,000 monthly stipend

contact //
Michael Young (515) 294-8169 myoung@iastate.edu
Bernard Lidicky (515) 294-8136 lidicky@iastate.edu

www.mathpostbac.org

MAA Project NExT
NEW EXPERIENCES IN TEACHING

Launch the NExT stage of your career

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 for the 2020 cohort of MAA Project NExT Fellows are due on April 15, 2020 and can be found at projectnext.maa.org.

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

Application deadline: April 15, 2020
projectnext.maa.org • projectnext@maa.org

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

Transforming Analytical Learning in the Era of Big Data
An Undergraduate Summer Institute in Biostatistics SIBS at The University of Michigan

June 15-July 24, 2020

This full-time 6-week summer institute will introduce undergraduate students to emerging challenges at the intersection of Big Data, Statistics, and Human Health.

Application opens December 1, 2019

Lectures will be led by a diverse group of stellar biostatistics, statistics, electrical engineering, and computer science faculty at the University of Michigan. Faculty from biomedicine and public health will present their perspective of big data. Working in teams, students will participate in mentored big data research projects.

For more information, please contact Tara Smith or visit the BDSI website.

Tenure-track Assistant Professor in the
School of Statistics at the University of Minnesota

UNIVERSITY OF MINNESOTA

The School of Statistics at the University of Minnesota invites applications for a full-time, tenure-track position at the rank of assistant professor in the area of statistics, to begin fall semester 2020 (August 31, 2020). We are committed to attracting candidates from historically under-represented groups knowing that diversity enriches the academic experience and provides a base for innovation and progress.

Appointment will be 100% time over the nine-month academic year (late-August to late-May) at the rank of tenure-track assistant professor, depending on qualifications and experience and consistent with collegiate and University policy.

REQUIRED QUALIFICATIONS: Ph.D. in Statistics or a closely related field is required by start date of the appointment.

PREFERRED QUALIFICATIONS:
Candidates with an established research record and college/university level teaching experience are preferred. Our student body is increasingly diverse (across gender, race/ethnicity, first generation college, income), and candidates with a demonstrated interest in teaching and mentoring a diverse student body are preferred.
Candidates will be evaluated according to the overall quality of their academic preparation and scholarly work, evidence of research ability, evidence of commitment to teaching students from a variety of cultures and backgrounds and skills as a teacher, and strength of recommendations.

APPLICATION INSTRUCTIONS
Applications must be submitted online; go to https://employment.umn.edu and search for **332262**. Select the position, click on "Apply," and follow the instructions. You will be given an opportunity to complete an online application and attach a cover letter and curriculum vitae.

Additional documents must be attached by accessing your "My Activities" page, and can be attached after submission of the application by exiting and re-entering the Job Center, accessing your "My Activities" page (in the top list of hyperlinks), and uploading documents there.

The following materials must be attached to your online application: 1) cover letter, 2) curriculum vitae, 3) research statement, 4) teaching statement, and 5) a sample of your scholarly written work representing your disciplinary focus. Applicants may also choose to 6) submit an optional "diversity statement" (no longer than 2 pages) that addresses how their past and/or future teaching, research, and/or service contributions might serve to teach, mentor, and/or support young people and other scholars who may be underrepresented or marginalized in the statistics community at large. In addition to the materials submitted online, please arrange for THREE letters of recommendation to be sent directly to StatsOffice@umn.edu.

Application review will begin November 1, 2019. We will continue to review applications until the position is filled. Additional materials may be requested from applicants at a later date.

Please refer questions regarding the position to the School of Statistics, 612-625-8046. For questions about the application system, please e-mail employ@umn.edu or call (612) 624-UOHR (8647).

The University of Minnesota provides equal access to and opportunity in its programs, facilities, and employment without regard to race, color, creed, religion, national origin, gender, age, marital status, disability, public assistance status, veteran status, sexual orientation, gender identity, or gender expression.
To learn more about diversity at the U: http://diversity.umn.edu.

MATH ALLIANCE MEMBER INSTITUTION

F. Burton Jones Chair in the Department of Mathematics at the University of California, Riverside

F. Burton Jones Chair in Pure Mathematics

The Department of Mathematics at the University of California, Riverside invites application to a faculty position at the full professor level in the general area of pure mathematics. The successful candidate is expected to fill the F. Burton Jones Chair in Pure Mathematics. The search seeks candidates with national and international recognition, an outstanding research track record and outlook, a strong record in mentoring and teaching, and leadership in promoting diversity and serving the professional community.

A PhD in mathematics is required. It is expected that at UCR, the candidate will lead a rigorous research program, will develop and teach graduate and undergraduate courses, will advise and mentor graduate and undergraduate students, will vigorously promote diversity, and will engage in both campus and professional service activities.

A start-up package will be provided. The endowment fund will be made available to support the candidate's research and mentoring activities. This position will start between July 1, 2020 and July 1, 2021.

Interested individuals should submit a cover letter, a full curriculum vita, a statement of research, a statement of teaching, official teaching evaluations and a statement on contribution to promoting diversity. In addition, applicants should provide contact names and addresses for four or five references on the candidate's research, and one reference on the candidate's teaching and mentoring. All application materials must be submitted through AP Recruit online at: https://aprecruit.ucr.edu/apply/JPF01199

Review of applications will commence on May 1, 2020 and proceed until position is filled. For full consideration, applicants should submit their complete applications by April 30, 2020.

The University of California is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, age, disability, protected veteran status, or any other characteristic protected by law.

UCR is a world-class research university with an exceptionally diverse undergraduate student body. Its mission is explicitly linked to providing routes to educational success for underrepresented and first-generation college students. A commitment to this mission is a preferred qualification.

Advancement through the Professor ranks at the University of California is through a series of structured, merit-based evaluations, occurring every 3-5 years, each of which includes substantial peer input.

Please apply at: https://aprecruit.ucr.edu/apply/JPF01199
Contact: Guadalupe Figueroa, 951-827-4698, (951) 827-4807 (fax)
Email: Guadalupe.figueroa@ucr.edu
Postal Mail: Department of MathematicsUniversity of California, RiversideRiverside, CA 92521
Web Page: www.mathdept.ucr.edu

Tenure-Track Assistant Professor Position at Cal Poly Pomona

The Department of Mathematics and Statistics in the College of Science at California State Polytechnic University, Pomona (Cal Poly Pomona) invites applications for a tenure-track position in Applied Mathematics at the rank of Assistant Professor beginning in the 2020-2021 academic year. The rank of the position is non-negotiable. Join a growing and dynamic group of mathematicians, statisticians, and mathematics educators actively engaged in teaching and scholarship.

The Position: Throughout the academic year, you will typically teach a mix of courses in mathematics at the lower division, upper division, and graduate levels. As part of your professional development, we encourage you to engage our graduate students in your scholarly activities. Optimally, you will eventually become the academic adviser of some of our graduate students, helping them by supervising their thesis topics. There are many service opportunities available within our department, college, and university. Salary will be commensurate with experience and qualifications. Our excellent benefits program includes start-up funds and a reduced teaching load during the first two years. Cal Poly Pomona has a student body with many different socioeconomic and cultural

backgrounds and learning styles. We are looking for faculty who are passionate about teaching and mentoring this diverse student population. In particular, applicants whose work demonstrates a commitment to inclusive excellence and diversity in higher education are encouraged to apply.

Minimum Qualifications:

- A Ph.D. in Mathematics, Applied Mathematics, or a related area, with expertise in computational mathematics, nonlinear optimization, or numerical differential equations, from an accredited university by the start date of the appointment.
- College or University teaching experience, at least at the level of teaching assistant.
- Demonstrated ability to contribute to the excellence of our diverse academic community through teaching, research, and service as well as a commitment to work in an inclusive environment.
- Demonstrated proficiency in programming and the use of computational tools in research.

Preferred / Desired Qualifications:

- Evidence of excellence in teaching and the ability to teach upper division and graduate mathematics classes.
- Evidence of excellence in conducting scholarly research activities and the ability to direct master's thesis students.
- Ability and desire to teach programming-oriented courses.

Application Instructions: To be considered for the position, submit materials to both MathJobs.org and to Interfolio.com. Submit the following materials on MathJobs.org.

Your completed application packet will be available to be examined by all tenured and tenure-track faculty of the Cal Poly Pomona Department of Mathematics and Statistics. This position is open until filled. Those applications completed and received by **December 2, 2019** will receive first consideration. Early response is encouraged.

Submit all required materials to AMS MathJobs. **In addition, you must also submit your cover letter, curriculum vitae, and Student Success Statement to Interfolio: http://apply.interfolio.com/70055**.

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 Faculty Position Announcements

University/Institution	Type of Position(s)	Link for Applications
Birmingham-Southern College	Tenure-track Assistant Professor of Mathematics	MathJobs.org
Bowdoin College	Tenure-track Assistant Professor of Mathematics	MathJobs.org
Bucknell University	Two Tenure-track Positions in Mathematics	MathJobs.org
Bucknell University	Assistant Professor of Data Science	Bucknell University
California Baptist University	Tenure-track Assistant Professor in Statistics	Calbaptist.edu
California State University, Fresno	Tenure-track Assistant Professor in Mathematics Education	Fresno State
California State University, LA	Tenure-track Assoc./Full Professor of Mathematics	MathJobs.org
Carleton College	Two Tenure-track & Visting Asst. Prof. Position in Mathematics	MathJobs.org, MathJobs.org
Central Washington University	Tenure-track Assistant Professor of Mathematics	CWU.edu
Fitchburg State University	Tenure-track Assistant Prof. in Data Science or Statistics	MathJobs.org
Gettysburg College	Tenure-track Assistant Professor of Mathematics	MathJobs.org
Grand Valley State University	Tenure-track Assistant Professor of Mathematics	GVSU
Hillsdale College	Tenure-track Position in Mathematics	MathJobs.org
Ithaca College	Two Tenure-track Assistant Professors of Mathematics	Ithaca College
Kentucky Wesleyan College	Tenure-track Assistant Professor in Mathematics Education	csublett@kwc.edu
Lamar University	Two Tenure-track Asst./Assoc. Professors of Mathematics	Lamar.edu
Loyola Marymount University	Tenure-track Assistant Professor of Mathematics	Loyola Marymount Univ.
Marion University in Indianapolis	Tenure-track Assistant Professor of Mathematics	hr@marian.edu
Pomona College	Tenure-track Assistant Professor of Mathematics	MathJobs.org
Rider University	Tenure-track Assistant Professor of Mathematics	Rider Univ.
San José State University	Two Tenure-track Positions in Applied Mathematics	MathJobs.org
Smith College	Two Tenure-track Positions in Mathematics & Statistics	Interfolio
Southwestern University	Tenure-track Assistant Professor of Mathematics	Interfolio
Texas Christian University	Instructor of Mathematics	MathJobs.org
University of Dayton	Tenure-track Position in Partial Differential Equations	Univ. of Dayton
University of Missouri-Kansas City	Tenure-Track Assistant Professor of Statistics	UMKC.edu
University of St. Thomas	Tenure-track Assistant Professor in Mathematics	St. Thomas
University of Texas at Arlington	Tenure-Stream Position in Data Science	MathJobs.org
University of Texas at Arlington	Tenure-track Position in Computational Neuroscience	MathJobs.org
Virginia Tech	Tenure-track Assistant Professor of Mathematics	MathJobs.org
Washington State University	Tenure-track Assistant Professor in Data Analytics	WSU
Whitworth University	Tenure-track Assistant Professor of Computer Science	Whitworth.edu
Xavier University of Louisiana	Two Tenure-track Positions in Mathematics	MathJobs.org