

Upcoming

**MOCA
Network
Workshop**

Iowa State Univ.
Aug. 6-10,
2018

StatFest 2018

Amherst College
September 22,
2018

**Field of Dreams
Conference**

St. Louis, MO
Nov. 2-4, 2018

Thoughts from the Executive Director...



David Goldberg
Executive
Director of the Math
Alliance

Hello everyone, August is almost here, and that means another semester is just ahead!! We're very excited about the progress with our F-GAP program and with planning for this year's Field of Dreams Conference (registration site opening soon!).

I am happy Leslie McClure, our Associate Director for Statistics and member of our Executive Council, is willing to share some thoughts with you this month. Enjoy the rest of the summer!

Math Alliance's Statistics Initiative



Leslie McClure
Chair of the
Department of
Epidemiology and
Biostatistics at Drexel
University, and
the Alliance Associate
Director for Statistics

As we hit the dog days of summer, I hope that you've had a chance to enjoy the slower summer months. For faculty, summer is often a time to meet research goals, revise course materials, and spend time with family. For students, summer may mean a research experience, a summer program, or even classes and papers! Regardless of how you spent your summer, we are on the fast track to fall, and it is time to start thinking about all that comes with the start of a new school year.

With a new academic year comes new possibilities! As your students begin to plan courses for the upcoming year, consider recommending that they take a course in statistics. The opportunities in the statistical sciences for students with strong quantitative skills are numerous, and there are several Alliance Graduate Program Groups in Departments of statistics and biostatistics. Don't know what is required to enter a program in statistics or biostatistics? Typically, if a student has a strong background in calculus (including multivariable calculus) and a course in linear algebra, they are mostly there. Some programs require an advanced calculus course, whereas others do not.

The biggest misconception: a biology background is required to enter a biostatistics program. The reality is that the students who do best in biostatistics have a strong math background, but are interested in applying statistical methods to medical and biological problems.

In the Alliance, the fast track to fall means planning for our upcoming Field of Dreams Conference (November 2-4) back in St. Louis, Missouri. The registration details are coming very soon, so watch the Alliance website. We are thankful for the generous support from our friends at Washington University in St. Louis for the 2018 Field of Dreams. The Fall also means that the Facilitated Graduate Admissions Program (F-GAP) is in full swing!

There is still time to nominate a graduate senior or Master's student who is planning to apply for graduate programs in the Fall of 2019. Enjoy the rest of the summer, and I can't wait to see everyone at the 2018 Field of Dreams!

Vélez appointed to STEM Education Advisory Panel



William Ysals Vélez, Professor Emeritus at University of Arizona, and the Alliance's Associate Director for Undergraduate Programs, has been appointed to the STEM Education Advisory Panel by the National Science Foundation (NSF). This congressionally authorized prestigious panel of 18 members, appointed in consultation with the Department of Education, NOAA, and NASA was formed to review and update the *2013-2018 Federal STEM Education 5-Year Strategic Plan*.

The [full announcement](#) is available from the NSF website. We're very happy to know Professor Vélez will be representing the interest of our disciplines and communities to this very important committee.

Congratulations Bill!!

2018-19 F-GAP Program Still Accepting Nominations!

The Facilitated Graduate Applications Process (F-GAP) is an Alliance program that provides undergraduate seniors 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 senior or Master's student who will be **graduating in the Spring of 2019 and will be applying to graduate programs for Fall 2019** please submit a [nomination form](#).

"F-GAP has substantially helped me in finding the right programs to which I should apply."

"The F-GAP program is excellent! My facilitator assisted and encouraged me at every stage of the application process."



"The attention and help that I receive of my F-GAP facilitator was outstanding. The tips given by him to improve my Personal Statement, CV and others application materials were phenomenal."



The 2018 Field of Dreams Conference!

The 2017 Field of Dreams Conference will be held Nov. 2-4, 2018 in St. Louis, Missouri.

**In Partnership with Washington University in St. Louis*

For more information on this years conference: <https://mathalliance.org/2018-field-of-dreams-conference/>

To nominate your students for the conference: <https://mathalliance.org/2018-field-of-dreams-conference-student-nomination-form/>

Erika Camacho and EDGE win PAESMEMs



On June 25, 2018, the White House Office of Science and Technology Policy (OSTP) announced the awardees for the Presidential Awards for Excellence in Science, Mathematics & Engineering Mentoring (PAESMEM) for the years 2014-2016. Among the individuals receiving awards for 2014 was Erika Camacho, an Alliance Mentor from Arizona State University.

The Enhancing Diversity in Graduate Education (EDGE) Program was also recognized with a 2015 PAESMEM. Among those accepting for EDGE were Alliance Mentors Raegan Higgins of Texas Tech, Ami Radunskaya of Pomona College, and Ulrica Wilson of Morehouse College. The PAESMEM is the nation's highest award for mentoring, and we want to congratulate, Professors Camacho, Higgins, Radunskaya, and Wilson, EDGE and all of its directors, as well as all the other awardees!! The citations for [Camacho](#) and [EDGE](#) can be viewed on the [PAESMEM website](#).



These mentors join our previous PAESMEM winners, Carlos Castillo-Chavez (Regents' Professor, a Joaquin Bustoz Jr. Professor of Mathematical Biology, and a Distinguished Sustainability Scientist at Arizona State University and Rector of Yachay University of Experimental Technical Research in Ecuador, 1997), Phil Kutzko (Professor Emeritus, Mathematics, University of Iowa, and Alliance Director, 2008), Joe Omojola (Professor of Mathematics and Physics, Southern University of New Orleans, 2006), and William Yslas Vélez (Professor Emeritus, Mathematics, University of Arizona and Alliance Associate Director of Undergraduate Programs, 1997). Other organizations closely associated with the Alliance previously receiving PAESMEMs include University of Nebraska Lincoln Department of Mathematics & Statistics (1997), University of Iowa Department of Mathematics (2004), and Mathematical and Theoretical Biology Institute (2011).



StatFest 2018:

A One Day Conference for Undergraduate Students

Learn about statistics and data science careers in industry, government, and academia. Underrepresented students (African American, Hispanic, Native Americans) with analytical interests are particularly encouraged to attend and learn about exciting career and graduate study opportunities in statistics and data science. There are ample opportunities to network during breaks and the poster session.

Amherst College is one of the most diverse liberal arts colleges in the country. We are dedicated to the centrality of inclusiveness.

Date: Saturday, September 22, 2018

Time: 9:30-5:00 p.m.

Place: Amherst College, Amherst, MA

Contact: Nicholas Horton
nhorton@amherst.edu
Renee Moore renee.moore@emory.edu

Cost: Free (though preregistration is required by Wednesday, September 19th)

For more information and to register visit: <https://nhorton.people.amherst.edu/statfest>

Keynote Speakers



Fernando Perez created iPython and co-created Project Jupyter. He is a Professor of Statistics at the University of California/Berkeley and Senior Fellow of the Berkeley Institute for Data Science.



Scarlett Bellamy is Past-President of ENAR (Eastern North American Region) of the International Biometrics Society. She is a Professor of Biostatistics and director of the graduate program at the Department of Epidemiology and Biostatistics, Drexel University Dornsife School of Public Health.

Sponsored by the American Statistical Association's Committee on Minorities in Statistics



Other sponsors: RStudio, Google, Boston Chapter of the ASA, Five College Statistics Program, and UMass/Amherst Biostatistics.

Vice Provost for Diversity and Inclusion at Purdue University Position Announcement



The Vice Provost for Diversity and Inclusion is the senior administrator with responsibility for providing exceptional vision and leadership to the University in the broad area of diversity and inclusion. The Vice Provost has the responsibility to promote diversity broadly defined and to foster a culture of respect, inclusion, and excellence for all faculty, staff and students. Reporting to the Provost and Executive Vice President for Academic Affairs and Diversity, the Vice Provost will lead the Division of Diversity and Inclusion and will work with diversity professionals in all of the academic colleges and administrative areas to advance Purdue's strategic diversity and inclusion goals. The Vice Provost will work with the Provost to lead the Advisory Committee on Diversity and Inclusion, and will work collaboratively with the vice presidents, vice provosts, deans, directors, and other campus leaders to enhance the campus climate for all across the land-grant missions of learning, discovery, and engagement. The Vice Provost will actively connect with internal and external stakeholders, providing guidance and support to executive leadership and to faculty, staff, and students, as needed. This role will position the institution to center diversity and inclusion work in the mission of the university and to capitalize on the varied ways diversity and inclusion can be embedded in the university's curriculum, infrastructure, policies, and programs.

Detailed job description can be found at <https://www.purdue.edu/provost/diversity-search-committee/description.html>.

For additional information, please consult the university's website at <https://www.purdue.edu>.

Purdue University is an EOE/AA employer. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.

Tenure-Track Position in Statistics in the Mathematics and Statistics Department at Williams College

The Williams College Department of Mathematics and Statistics invites applications for a new **tenure-track position in Statistics**, beginning fall 2019, at the rank of assistant professor. A more senior appointment is also possible for a qualified candidate at a later stage in their career. The candidate should have a Ph.D. in Statistics or a closely related field by the time of appointment. We are seeking candidates who show evidence and/or promise of excellence in teaching and a strong research program that can engage undergraduate students. The candidate will become the seventh tenure-track statistician in the department, joining a vibrant and innovative group of statisticians with an established statistics major. For more information on the Department of Mathematics and Statistics, visit <http://math.williams.edu/>.

Candidates may apply via <https://apply.interfolio.com/50978> by uploading a cover letter addressed to Professor Richard De Veaux, a curriculum vitae, a teaching statement, a description of research plans, and three letters of recommendation on teaching and research. The Department is committed to building a diverse and inclusive community. In your application materials, we also ask you to address how your teaching, scholarship, mentorship and/or community service might support Williams's commitment to diversity and inclusion.

Expectations: The teaching load is two courses per 12-week semester and a winter term course every other January. The candidate will be expected to teach introductory statistics, core courses for the statistics major, and elective courses in their areas of interest. The successful candidate will establish an independent research program that results in scholarly publications. Williams College provides broad support for start-up funds, funding for student research assistants, faculty professional development funds, and a shared computer cluster for parallel computation.

Review of applications will begin on or after **October 1st** and will continue until the position is filled. All offers of employment are contingent upon completion of a background check. Further information is available at <https://faculty.williams.edu/prospective-faculty/background-check-policy/>.

Williams College is a coeducational liberal arts institution located in the Berkshire Hills of western Massachusetts. The college has built its reputation on outstanding teaching and scholarship and on the academic excellence of its approximately 2,000 students. Please visit the Williams College website (<http://www.williams.edu>). Beyond meeting fully its legal obligations for non-discrimination, Williams College is committed to building a diverse and inclusive community where members from all backgrounds can live, learn, and thrive.

Visiting Assistant Professor in Mathematics at Manhattan College Position Announcement

The Department of Mathematics at Manhattan College seeks a committed teacher-scholar with a Ph.D. in the mathematical sciences for a full time position at the Visiting Assistant Professor rank, beginning with the Fall 2018 semester. The contract term is for one year, beginning August 2018, but is renewable. The Mathematics Department offers courses to all Schools in the College, and the course schedule is likely to include service courses. The class sizes are small, generally below thirty students, and the teaching load is twenty-one credits per year.

Current department members have expertise in algebra, data analytics, data mining, differential equations, dynamical systems, game theory, graph theory, hyperbolic geometry, linear and non-linear optimization, logic, machine learning, mathematics education, operations research, probabilistic and statistical methods, and topology.

Minimum qualifications: A Ph.D. in the mathematical sciences. All areas of mathematics will be considered. Candidates will be evaluated on their academic background, communication skills, potential for excellence in teaching, scholarly activity, potential for service to the college, and ability to bring new ideas and directions to the mathematics program. Teaching experience is strongly preferred.

Apply online. Applicants should submit, in electronic form, a single PDF file that includes a cover letter, curriculum vitae, a statement of teaching philosophy, and a research plan. Also arrange for three confidential letters of reference to be sent to math.search@manhattan.edu; at least one of these should address teaching ability. Indicate whether or not you have authorization to work in the United States at this time or will have it by the time the position begins. Review of applications will begin immediately and continue until the position is filled. No hard copy applications will be considered.

Application Link: <https://manhattan.clearcompany.com/careers/jobs/e629a477-667a-de54-44b0-d2b33d76bec/apply?source=738244-CS-25537>

Manhattan College is an independent Catholic coeducational institution in the Lasallian tradition. We expect our faculty, administration, and staff to be knowledgeable about our mission and to make a positive contribution to the mission.

Applicants from historically under-represented segments of the population are encouraged to apply, as well as those attracted to a college with a Catholic identity. We are committed to a diverse campus community. AA/EO Employer M/F/D/V