Upcoming Events

2017 Field of Dreams Conference

The 2017 Field of Dreams Conference!

November 3-5, 2017 in St. Louis, Missouri

*In Partnership with Washington University in St. Louis

Deadline to register for the conference and to receive the group rate at the hotel is:
October 19, 2017

For more information on this years conference:
https://mathalliance.org/2017-field-of-dreams-conference/

Thoughts from the Executive Director...

Prof. David Goldberg
Executive Director of the National Math Alliance

I wrote last month's notes for the newsletter as Hurricane Harvey was drenching Houston, and many of our friends in the Gulf States region. The Alliance asked our community to be ready to help our mentors and students affected, and over 50 mentors responded volunteering to help. Fortunately, all our students and mentors were back at their home campuses rather quickly, but the show of support and sense of community was impressive. Now, in the last month, we have seen Irma batter Florida and the Southeast, and Maria devastate Puerto Rico, and we are still trying to get more information on what we can do to help. We are especially concerned about our community of Alliance mentors and scholars in Puerto Rico, as we are still just trying to assess the situation. We will again be letting our mentors know when we figure out ways to help. Thanks again to all who have volunteered.

Autumn is now officially here, which means the Field of Dreams Conference will be here before we know it. We have been making some modifications to the agenda, and posting those as we go along. The registration page is up and we look forward to seeing everyone there. We expect to have close to 200 pre-doctoral scholars, including **over 100 F-GAP students** in attendance. This will be an excellent opportunity for programs to get to know these students and for the students to learn about our programs. GPG faculty -- remember to check with your GPG leader as to whether your registration will be covered by your program's Center Membership.

Speaking of which, we have been getting a very positive response to our new Center for the National Math Sciences Alliance, and several programs have already become members, including

- Arizona State (MSMSC)
- Florida Atlantic (Math)
- NC State (Statistics)
- Tulane (Math)
- UC Riverside (Math)
- UConn (Statistics)
- U. Kentucky (Math)
- U. Nebraska (Math)
- VCU (Systems Modeling and Analysis)

Several more of our GPGs are in the process of becoming members, and we appreciate all the support this provides for our Alliance. Purdue University is a founding Center Partner, and we hope to announce some partnership agreements with other universities soon.

We recently crossed a milestone – we now have more than 700 registered Alliance mentors!!! We started with 17 in 2007, and we continue to grow quickly. I appreciate what each and every of you does to help our Alliance succeed. **We look forward to seeing everyone in St. Louis in November!!!!**

The 2017 Midwest Geometry Conference

The 2017 Midwest Geometry Conference will take place at Kansas State University November 17 - 19, 2017 with a related colloquium on November 16. The Conference will bring together geometers and geometrical analysists from the Midwest and beyond to share ideas and recent results. Topics represented at the conference may include minimal surfaces, curvature flows, isometric group actions, spaces with curvature bounded from below and geometric topology will also be represented.

There is some room for contributed talks. Talks on Friday morning will be reserved for graduate students and early career mathematicians.

Funding is available to fund some participants. Priority will be given to mathematics graduate students, recent Ph.Ds., women and minorities. For more information, to register (please register if you wish to come so we can print a name tag and accurately report) AND to apply for funds see: Registration link

Organized by: Dave Auckly, Ivan Blank, Catherine Searle and Shihshu Walter Wei

Confirmed Speakers Include:
Brian Benson   Jeremy LeCrone
Yuxin Dong   Tye Lidman
Ailana Fraser   Tracy Payne
Xuan Hien Nguyen   Guofang Wei
Dan Knopf   Alex Zupan
Anusha Krishnan
Partial support from the NSF and the Brent Smith Memorial Endowment for Mathematics Enrichment.

NC STATE   NCSU Building Future Faculty Program

We are happy to announce that NC State's Building Future Faculty (BFF) Program is now accepting applications for the 2018 Program.

The 2018 Building Future Faculty (BFF) program will be offered by NC State University on **Wednesday, March 14, 2018 - Friday, March 16, 2018**. This all-expenses paid workshop is designed for diverse graduate students and post-doctoral students who are seeking a career as a faculty member.

Workshop topics include information regarding what to expect as a faculty member, a discussion of the wealth of resources available to faculty for teaching, and expectations of productivity for faculty engaged in research. During the workshop, participants will spend time with current faculty and department chairs in their discipline discussing effective strategies to prepare for an academic career, and the realities of life as a faculty member, as well as receiving personal tips and feedback. This program aims to increase faculty diversity and inclusion, to create faculty that mirrors the increasingly diversified student populations,

Past participants had the following things to say about the program:
> "The BFF program provided me with a set of new ideas that I will use as a framework for preparing and positioning myself to be a competitive faculty candidate."
> "This experience has certainly prepared me for the job market as a future faculty member. The knowledge I have gained and the contacts that I have acquired have been invaluable. I would recommend this program to anyone pursuing a career in academia."
> "I believe this program is not only benefiting the participants, but the higher education community as a whole. There are experiences I have had in this program that will remain with me throughout my career."

For the application for the 2018 Building Future Faculty program and more information about the program, please visit the Building Future Faculty website go.ncsu.edu/bffapply.

Applications are due by **Sunday, November 12, 2017 at 11:55 pm EST**.

Mathematical Sciences Research Institute
Spring Workshops, 2018

Mathematical Sciences Research Institute Spring Workshops, 2018 Berkeley, CA

The Mathematical Sciences Research Institute (MSRI) will hold the following workshops during the Spring of 2018. Established researchers, postdoctoral fellows and graduate students are invited to apply for funding. It is the policy of MSRI to actively seek to achieve diversity in its workshops. Thus, a strong effort is made to remove barriers that hinder equal opportunity, particularly for those groups that have been historically underrepresented in the mathematical sciences.

January 18, 2018 - January 19, 2018
Connections for Women: Enumerative Geometry Beyond Numbers
http://www.msri.org/workshops/814

January 22, 2018 - January 26, 2018
Introductory Workshop: Enumerative Geometry Beyond Numbers
http://www.msri.org/workshops/815

February 01, 2018 - February 02, 2018
Connections for Women: Group Representation Theory and Applications
http://www.msri.org/workshops/817

February 05, 2018 - February 09, 2018
Introductory Workshop: Group Representation Theory and Applications
http://www.msri.org/workshops/818

February 21, 2018 - February 23, 2018
Critical Issues in Mathematics Education 2018: Access to mathematics by opening doors for students currently excluded from mathematics
http://www.msri.org/workshops/877

March 12, 2018 - March 16, 2018
Hot Topics: The Homological Conjectures: Resolved!
http://www.msri.org/workshops/842

March 19, 2018 - March 23, 2018
Structures in Enumerative Geometry
http://www.msri.org/workshops/816

April 09, 2018 - April 13, 2018
Representations of Finite and Algebraic Groups
http://www.msri.org/workshops/820

Macalester College Math/Stat/CS
Tenure Track Position Announcement

The vibrant and growing department of Mathematics, Statistics, and Computer Science at Macalester College invites applications for 4 tenure-track positions to begin Fall 2018: 2 positions are in Statistics at the assistant or associate professor level and 2 are in Computer Science at the assistant professor level. Candidates must have a strong commitment to teaching and research in an undergraduate liberal arts environment.

Statistics candidates who have, or are completing, a Ph.D. in Biostatistics or Statistics are preferred, but closely related fields may also be considered. Some areas of potential interest include machine learning, causal inference, and advanced modeling (eg: spatial statistics, generalized linear mixed effects models, time series analysis, structural equation models). Evaluation of applications will begin October 1, 2017 and continue until the position is filled. For details, see: https://www.macalester.edu/academics/mscs/statisticstenure-trackjob.html

Computer Science candidates must have or be completing a PhD in Computer Science. We are especially interested in candidates who are enthusiastic to teach a broad range of undergraduate courses. This person will be expected to contribute to the teaching of our introductory and core courses as well as advanced courses.

Evaluation of applications will begin October 15, 2017 and continue until the position is filled. For details, see: https://www.macalester.edu/academics/mscs/compscitenure-trackjob.html for details.

Purdue University Math Tenure-Track
Position Announcement

The Mathematics Department at Purdue University invites applications for up to two possible appointments in mathematics to begin August 2018. These appointments will be at the level of assistant professor. Appointments will be made based on demonstrated research and teaching qualifications. Ph.D. (or its equivalent) in mathematics or a closely related field is required. Preference will be given to outstanding applicants in the areas of Analysis and Geometry (including stochastic analysis/probability, harmonic analysis, partial differential equations, complex analysis, and symplectic/differential geometry), Algebra (including commutative algebra, algebraic topology, algebraic geometry, automorphic forms and number theory), and Computational and Applied Mathematics (including applied, numerical, and computational analysis, the modeling of physical/biological systems, and inverse problems).

Duties: Conduct research in mathematics. Teach undergraduate and/or graduate mathematics courses to a diverse student body and supervise graduate students. Senior faculty will also mentor junior faculty and participate in the governance of the department, the College of Science, and the University by serving on faculty committees.

Applications should be submitted online through www.mathjobs.org/jobs/jobs/10778 and should include (1) the AMS cover sheet for academic employment, (2) a curriculum vitae, (3) a research statement, and (4) four letters of recommendation, one of which discusses the candidate's teaching qualifications. Reference letter writers should be asked to submit their letters online through www.mathjobs.org. Direct all inquiries to kstroud@math.purdue.edu.

Applications are considered on a continuing basis but candidates are urged to apply by November 1, 2017. For more information about our department, see www.math.purdue.edu/. A background check will be required for employment in this position.

Purdue University's Department of Mathematics is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in their cover letter, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion.

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

These three-year positions intended for new and very recent Ph.D.'s will commence August 2018 and are open to mathematicians who demonstrate exceptional research promise and a strong teaching record. Ph.D. (or its equivalent) in mathematics or closely related field by August 14, 2018 is required. Applicants should have research interests in common with Purdue faculty. Duties include teaching undergraduate and graduate mathematics courses.

Applications should be submitted online through www.mathjobs.org and should include (1) the AMS cover sheet for academic employment, (2) a curriculum vita, (3) a research statement, and (4) three letters of recommendation, one of which discusses the candidate's teaching qualifications. Reference letter writers should be asked to submit their letters online through www.mathjobs.org/jobs/jobs/10779.

Direct all inquiries to mathhead@purdue.edu. Screening of applications will begin November 1, 2017 and continue until filled. Some offers will be made before the end of January 2018. For information about our department, see www.math.purdue.edu/. A background check will be required for employment in these positions.

Purdue University's Department of Mathematics is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in their cover letter, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion.

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

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Purdue University Math Zoltners
Professorship Announcement

The Department of Mathematics invites applications for an appointment at the rank of tenured full professor to fill the endowed Andris A. Zoltners Professorship in Mathematics. A Ph.D. (or its equivalent) in mathematics or a closely related field is required. We are expecting applications from candidates with an outstanding record of research accomplishments, internationally recognized stature, credentials suitable for immediate nomination as a Distinguished Professor, and great potential for future work. We will consider applications in any area of mathematics.

Duties: Conduct research in mathematics, interact with faculty, teach undergraduate and/or graduate courses, mentor junior faculty, and participate in the governance of the Department, College, and University by serving on faculty committees.

Applications should be submitted online through www.mathjobs.org/jobs/jobs/10781 and should include (1) the AMS cover sheet for academic employment, (2) a curriculum vitae, (3) a research statement, and (4) four letters of recommendation. Preferably one of the letters will discuss the candidate's teaching. Reference letter writers should be asked to submit their letters online through www.mathjobs.org. Direct all inquiries to mathhead@purdue.edu. Screening of applications will begin October 30, 2017 and continue until filled. Some offers may be made before the end of January 2018. For information about our department, see www.math.purdue.edu/. A background check will be required for employment in these positions.

Purdue University's Department of Mathematics is committed to advancing diversity in all areas of faculty effort, including scholarship, instruction, and engagement. Candidates should address at least one of these areas in their cover letter, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion.

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

Amherst College Statistics Tenure-Track Position Announcement

**Amherst College invites applications for a tenure-track position
in statistics with an appointment to begin July 1, 2018.**

Within the last decade, Amherst College has profoundly transformed its student body in terms of socioeconomic status, ethnicity, and nationality, among other areas.

Today, nearly one-quarter of Amherst's students are Pell Grant recipients; 44 percent of our students are domestic students of color. Amherst College is an equal opportunity employer and encourages women, persons of color, and persons with disabilities to apply.

The college is committed to enriching its educational experience and its culture through the diversity of its faculty, administration, and staff. Our expectation is that the successful candidate will excel at teaching and mentoring students who are broadly diverse with regard to race, ethnicity, socioeconomic status, gender, nationality, sexual orientation, and religion.

Responsibilities include teaching two courses per semester, supervising undergraduate theses and comprehensive projects, and supporting the growing statistics program at the college. Applicants must hold a Ph.D. in statistics, biostatistics, data science or a related field, have broad intellectual interests and a strong commitment to research, and be passionate about teaching statistics to undergraduates at all levels. We seek colleagues actively engaged in research who can teach a wide range of courses and help foster the statistics and data science community at Amherst.

Submit cover letter, curriculum vitae, research statement, teaching statement, and at least three letters of recommendation (including at least one that specifically addresses teaching) to MathJobs.Org. Applications will be accepted until the position is filled, but all applications received by October 8, 2017, will be guaranteed consideration. See https://www.amherst.edu/academiclife/dean_faculty/faculty_hiring/employment for details of the position. Questions can be addressed to mathstats@amherst.edu.

Amherst College is a private undergraduate liberal arts college for women and men, with 1,800 students and more than 200 faculty members. Located in the Connecticut River Valley of western Massachusetts, Amherst participates with Hampshire, Mount Holyoke, and Smith Colleges and the University of Massachusetts in the Five-College Consortium. The Five College Statistics Program (established in 2011) actively fosters connections among the many statisticians and data scientists in the area. https://www.mathjobs.org/jobs/jobs/10350.

Bucknell University Statistics Department
Tenure-Track Position Announcement

The Mathematics Department at Bucknell University invites applications for a tenure-track faculty position in Statistics, to begin in August 2018. We expect to hire at the Assistant Professor level, but outstanding candidates will be considered at the Associate Professor or Professor level.

Qualifications for the position include a Ph.D. in Statistics, Biostatistics, or closely related field, a strong commitment to teaching, and a high potential for research. We seek a teacher-scholar who will contribute to the department's focus on inclusiveness and the liberal arts mission. The successful candidate will join a team of four other statisticians teaching a variety of statistics courses while maintaining an active research program.

Applications include a cover letter, curriculum vitae, graduate transcripts (unofficial copies accepted), a research statement, and a teaching statement. Please submit these and all other supporting materials electronically at mathjobs.org. Please arrange for three letters of recommendation (at least one of which should substantively address teaching) to be uploaded at mathjobs.org. Review of applications will begin October 21, 2017, and will continue until the position is filled.

Bucknell University, an Equal Opportunity Employer, believes that students learn best in a diverse, inclusive community and is therefore committed to academic excellence through diversity in its faculty, staff, and students. We seek candidates who are committed to Bucknell's efforts to create a climate that fosters the growth and development of a diverse student body, and we welcome applications from members of groups that have been historically underrepresented in higher education.

Bucknell University is a private, highly ranked, national liberal arts institution that also offers strong professional programs in engineering, business, education, and music. Bucknell has a partnership with Geisinger Health System to promote research and educational collaborations. Located in Central Pennsylvania along the Susquehanna River, Bucknell is nestled in the Borough of Lewisburg, an architectural gem that has been ranked as one of America's best small towns.

Carleton College Tenure-Track
Position Announcement

The Carleton College Department of Mathematics and Statistics anticipates hiring for a tenure-track position in Analysis, broadly defined, at the Assistant Professor level, to begin September 1, 2018. Ph.D. in hand or imminent completion by that date is expected. Appointment at a higher level may be considered in exceptional cases.

Carleton is a highly selective liberal arts college with a student body of 2,000 located forty-five miles south of the Twin Cities of Minneapolis and St. Paul. Our academic year consists of three ten-week terms. The fourteen-member Department of Mathematics and Statistics resides in a modern building with excellent facilities including a dedicated computing lab. The faculty is passionate about teaching and active in scholarship. We are particularly interested in applicants who will contribute to a vibrant college-wide culture of undergraduate research, and who have a commitment to attracting and retaining students from underserved groups.

Applicants should submit, through MathJobs, a letter of interest, three letters of recommendation, a graduate transcript, a curriculum vitae, a statement about teaching in an undergraduate liberal arts environment, and a statement about research (including research with students) in an undergraduate liberal arts environment. At least one letter of recommendation should specifically address teaching experience. To ensure full consideration all application materials should be received by November 22, 2017.

Carleton College does not discriminate on the basis of race, color, creed, ethnicity, religion, sex, national origin, marital status, veteran status, actual or perceived sexual orientation, gender identity or expression, status with regard to public assistance, disability, or age in providing employment or access to its educational facilities and activities. We are committed to developing our faculty to better reflect the diversity of our student body and American society. Women and members of minority groups are strongly encouraged to apply.

Assistant/Associate Professor Worcester Polytechnic Institute

The successful applicant is expected to lead a high quality research program and collaborate with other departmental faculty to further develop a cutting-edge financial mathematics research hub.

WPI invites applications for a tenure track assistant/associate professor position in Financial Mathematics and closely related fields to begin in the fall of 2018. The successful applicant is expected to lead a high quality research program and collaborate with other departmental faculty to further develop a cutting-edge financial mathematics research hub. They will be expected to contribute to the teaching mission of the department giving particular support to courses in Financial and Actuarial Mathematics. Outstanding candidates in other areas will also receive consideration. Applicants should have a Ph.D. in Mathematics, or in a related area. Significant postdoctoral research experience is preferred. Readiness to participate in the department's cooperation with partners in the financial industry would be a plus. Salary, benefits and start-up funding are competitive and commensurate with research experience and accomplishments.

Qualified applicants should submit via mathjobs: http://apptrkr.com/1090502 (1) a detailed curriculum vitae, (2) a statement on research achievements, objectives and goals, (3) a statement on teaching experience, philosophy and interests, and (4) four letters of recommendation at least one of which addresses teaching experience or potential. Review of applications will begin on October 15, 2017 and will continue until the position is filled.

WPI's reputation as a rigorous and innovative university rests on the shoulders of its faculty. A highly selective, private technological university and one of the nation's first, WPI believes that when great minds work together, great advances follow. At WPI the boundaries to multidisciplinary collaboration are low—faculty members, students, and other partners work together on the real-world projects and purposeful research that are hallmarks of the WPI experience. We are most proud of a recent No. 1 ranking for "faculty who best combine research and teaching." (Wall Street Journal/Times Higher Ed, 2016) The university's campus is located (one hour west of Boston) in Worcester, Massachusetts, a thriving 21st century college city recognized as a growing hub of scientific and technological innovation.

The Mathematical Sciences Department currently has 30 tenured/tenure-track faculty members, 6 postdoctoral scholars, and features an active Ph.D. program in Mathematical Sciences. The department offers bachelor's degrees in Mathematical Sciences and in Actuarial Mathematics, and master's degrees in Applied Statistics, Applied Mathematics, Financial Mathematics, and Industrial Mathematics (seehttp://www.wpi.edu/+math). The department has a strong reputation for its cutting-edge interdisciplinary research and for its successful programs addressing mathematical and statistical problems in industry.

Qualified applicants should submit via mathjobs at http://apptrkr.com/1090502
(1) a detailed curriculum vitae, (2) a statement on research achievements, objectives and goals, (3) a statement on teaching experience, philosophy and interests, and (4) four letters of recommendation at least one of which addresses teaching experience or potential. Review of applications will begin on October 15, 2017 and will continue until the position is filled

WPI is an Equal Opportunity Employer. All qualified candidates will receive consideration for employment without regard to race, color, age, religion, sex, sexual orientation, gender identity, national origin, veteran status or disability. We are seeking individuals with diverse backgrounds and experiences who will contribute to a culture of creativity and collaboration, problem solving and change making Pre-employment criminal records check is required.

The Department of Applied Mathematics and Statistics (AMS) at the Colorado School of Mines invites applications for multiple tenured/tenure track positions at any rank (assistant, associate, or full professor) with a start date of Fall 2018. Current areas of active research within our department are mathematical biology; model reduction; multiscale modeling and analysis; high-performance computing; scattering, diffraction and propagation of waves; computational fluid dynamics; fracture mechanics; integral equations; spatial/spatio-temporal data analysis; inverse problems; uncertainty quantification; spline collocation methods; meshfree methods; PDEs and kinetic theory.

Applicants in any area of computational and applied mathematics or statistics will be considered. However, applicants whose expertise lies at or near the interface between these fields are strongly encouraged to apply. Given the unique opportunity of having multiple positions available, the Department encourages applicants who have a personal, professional or research connection with another applicant to share that connection upon submission of their applications.

Colorado School of Mines (Mines), Colorado's oldest public university, is located in Golden, Colorado, in the foothills of the Rocky Mountains 13 miles west of Denver and 21 miles south of Boulder. Mines enrolls approximately 4500 undergraduate and 1300 graduate students in a broad range of applied science and engineering disciplines. Annual research funding is approximately $65 million. Mines' location in the Denver/ Boulder metropolitan area provides opportunities for collaborations with colleagues at other universities, in industry and at multiple government labs such as the National Renewable Energy Laboratory (NREL) and the United States Geological Survey (USGS) in Golden, or the National Center for Atmospheric Research (NCAR), the National Oceanic and Atmospheric Administration (NOAA) and National Institute of Standards and Technology (NIST) in Boulder. In addition, the school's small size makes it easy for AMS faculty to form collaborations with faculty in geosciences and other disciplines on campus. The AMS Department offers Bachelor's, Master's, and Ph.D. degrees in both Computational and Applied Mathematics and in Statistics.

Responsibilities: The successful candidate will be expected to teach at both the undergraduate and graduate levels and to develop a strong externally funded research program.

Qualifications: An earned Ph.D. in (applied) mathematics, statistics, or a closely related field, and a record of or demonstrated potential for excellence in research and teaching. A research focus that lies at or near the interface of computational and applied mathematics and statistics is desired. Evidence of interest, or successful involvement, in interdisciplinary collaborative research is desired. Applicants must provide evidence of research accomplishments and teaching competence. Excellent communication and interpersonal skills are required.

Diversity Commitment: Mines is an Equal Opportunity/Affirmative Action employer and recognizes that diversity is crucial to its pursuit of excellence in education and research. Mines is committed to developing students, faculty, and staff that have differing perspectives, backgrounds, talents, and needs and to creating an environment that is diverse in ideas, that fosters energizing and enlightening debates, that leads to deeper commitments, and that results in a host of educational, research, and service outcomes. As such, Mines will give special consideration to minorities, women, veterans, and persons with disabilities who have experience working in settings with students from diverse backgrounds and who possess a demonstrated commitment to improving access to higher education for historically underrepresented students.

Compensation: Salary and benefits will be commensurate with qualifications and experience, and will include a generous start-up package for basic equipment and professional development. Mines also provides an attractive benefits package including fully paid health insurance, dependent tuition benefits, parental leave policies and dependent care assistance through a flexible spending plan.

How to Apply: A complete application consists of a cover letter, curriculum vita, statement of research interests and aspirations, a statement describing teaching experience or philosophy, and three or more letters of reference, at least one of which addresses teaching experience or potential. Applications received on or before December 1, 2017 will receive full consideration. All materials must be submitted via MathJobs.org (https://www.mathjobs.org/jobs).