

Math Alliance News June 2021 Volume 9, Issue 6

A publication of the Corporation for the National Math Sciences Alliance



MAA MathFest Virtual

August 4-7, 2021

2021 JSM Meeting

Virtual

August 8-12, 2021

ASA STATFEST 2021

Virtual

Sept. 18-19, 2021

Field of Dreams Conference

Virtual

Nov. 5-6, 2021

Thoughts from the Director...



David Goldberg Executive Director of the Math Alliance

Summer is definitely here. I hope you are all enjoying the warm weather and the availability of more activities than last summer. We held our Career Paths Workshop with IMA at the beginning of June and I think it was another success for our community as we move through the pandemic. The theme of the conference was "The Mathematics of a Fair and Just Society". The plenary speakers were both from NYU. Professor Ravi Shroff discussed how statistics can be used to understand the impact of certain policies, mostly in urban settings. Melody Goodman, discussed using biostatistics to understand factors which contribute to health disparities. Both speakers shared interesting stories of their own journeys through the profession. Each speaker was also interviewed by a member of our community. Professor Shroff by Rolando de Santiago, a Math Alliance Scholar PhD, and now a Math Alliance Mentor (and my colleague at Purdue) and Professor Goodman was interviewed by Math Alliance Scholar Kyle Duke, a PhD candidate in Statistics at North Carolina State. We also had a great panel featuring doctorates working in various non-academic settings and parallel sessions for

mentors and students on several topics, and separate sessions for students and mentors to help build community. I want to thank our friends at IMA for all the work they put into the workshop, and I believe the videos of the plenary sessions will be up soon. When they do post you'll find them linked on our Media Page. This workshop gave our F-GAP students an excellent start on their next year's path through the graduate applications process. Mentors, please continue to nominate your students for F-GAP!!!

The talks at the workshop and studies of how certain policies, or phenomena, have disparate impacts on black and brown communities was brought to the front of my mind the other day, when a story regarding a decline in life expectancy came out. The biggest reason that life expectancy in the USA declined by 2-years in the past year was obviously COVID-19, but there were other phenomena which amplified this effect. What is most striking is that the life expectancy for black males declined by over 3 years. This widens the gap in life expectancy between white and black men to over 10 years. This adds to the long list of data which shows, without question, that racism, and more precisely white supremacy, continues to plague our society and keeps us from achieving our collective potential. It is important that such studies continue to be undertaken, supported, and discussed, and that we all work to turn this story around.

To finish on a positive note, we recently surpassed 150 Math Alliance Predoctoral Scholars who have earned doctorates (there are now 154!!!). So far, we know of at least 36 Predoctoral Scholars who earned doctorates in 2020. Based on experience, I am sure we'll learn of more 2020 doctorates over the next year or two. About three years ago, when we had not yet seen a year with more than 20 Math Alliance Predoctoral Scholar doctorates, I was saying that we would soon start to see 40 or more such doctorates in a typical year, because we knew how many F-GAP students were in the pipeline. I am so pleased to see those predictions are starting to be realized. It shows the work we are all doing, as a community, is having impact. I believe we can now claim proof of concept, and we have to think about how we scale up to build on this success.

Thanks to every one of our mentors whose commitment to students has brought us this far, and to the Math Alliance Scholars who have worked so hard to make my job so much easier.

Still Accepting 2021-22 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 or Summer of 2022 and will be applying to graduate programs for Fall 2022 please submit student nominations here: https://mathalliance.org/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.")







Things to note in the AMS Notices

June/July

<u>Virtual Workshop on Ricci and Scalar Curvature Draws Unexpected Attendance.</u>,by Christina Sormani*

<u>Book Review: From Servant to Queen: A Journey through Victorian Mathematics</u>, Reviewed by Sloan Evans Despeaux*

<u>Communication: Spaces for All: The Rise of LGBTQ+ Mathematics Conferences</u>, by Anthony Bonato, Juliette Bruce, and Ron Buckmire*

Math Alliance Mentors Elected to the AMS 2021 Council:

Members Ex Officio	Members at Large
Doug Ulmer*	Susan Loepp*
Danny Calegari*	Maggy Tomova*
	Bianca Viray*
2021 Trustees	Duane Cooper*
Doug Ulmer*	Kiran Kedlaya*

Simon Fellows in Math Announced

Solomon Friedberg*, Boston College

Yiannis Sakellaridis*, Johns Hopkins University

2021 SIAM Fellows Elected

The Society for Industrial and Applied Mathematics (SIAM) has elected its class of fellows for 2021. Below is the list of Math Alliance Mentors that were elected:

Alejandro Aceves*, Southern Methodist University, for pioneering contributions to the field of nonlinear waves and its applications to a variety of areas, most notably nonlinear optics.

Trachette L. Jackson*, University of Michigan, for innovative contributions to mathematical modeling in cancer biology and for the advancement of underrepresented minorities in science.

Rachel Levy*, Mathematical Association of America, for leadership in applied mathematics education, especially in mathematical modeling, across the entire educational spectrum.

Jonathan E. Rubin*, University of Pittsburgh, for contributions to mathematical neuroscience, mathematical biology, and dynamical systems theory.

Jack Xin*, University of California, Irvine, for pioneering work on traveling waves in periodic and random media and applications ranging from signal processing to finance.

Items of Interest in the AMSTAT NEWS

June

JSM 2021 -August 8-12, 2021

<u>Virtual Conference</u>

Speakers that are Math Alliance Mentors

Medallion Lecture III

Introductory Overview Lectures

Nancy Zhang, University of Pennsylvania Transfer Learning in Single-Cell Genomics Fairness in Machine Learning Sherri Rose, Stanford University

Thursday, August 12, 12:00 p.m.

Math Summer Program for Inclusive Excellence

A new program will be offered this summer by the University of Connecticut called the Math Summer Program for Inclusive Excellence. The aim of the program is to prepare students to attend graduate school in mathematics in Fall 2021. More specifically we hope to attract students whose identity or identities might be marginalized in mathematics, or who for any reason might not feel fully prepared for graduate school.

Our goal is to deliver some mathematical content during the program, but also to offer advice and information about graduate school that will be helpful to students in their first few years of graduate school, and to create a joyful, affirming community that will support our participants throughout their graduate studies.

More details about the program, and how to apply: https://spie.math.uconn.edu/.

NSF Postdoctoral Fellowships Awarded to Math Alliance PhD Graduates!

Math Alliance Scholars have been awarded 2021 Mathematical Sciences Postdoctoral Research Fellowships by the National Science Foundation:

- Orsola Capovilla-Searle—received her PhD from Duke and will begin a postdoc position at U.C. Davis in the fall.
- Anthony Sanchez—received his PhD from the University of Washington and will begin a postdoc position in the fall at U.C. San Diego in the fall.
- Andres Vindas Melendez—received his PhD from the University of Kentucky and will begin a postdoc position in the fall at U.C. Berkeley.

Congratulations to all of the NSF Postdoc Fellowship Winners!

JSM 2021 Announcement



JSM 2021 to Be Held Virtually

After making every effort to provide an in-person meeting this year and facing insurmountable challenges due to COVID-19, the ASA has made the hard decision to once again hold JSM virtually. More information about this will be available in the coming weeks, and we appreciate your patience as we finalize details.

What does this mean for you?

First and foremost, JSM 2021 is ON! JSM 2021, the flagship meeting of our profession, will continue its tradition of cutting-edge content from the breadth of our community. Information about how to access the wide variety of sessions and networking options will be communicated as soon as it is available.

If you have been accepted onto the program, we hope you will still choose to participate. We will be in touch with details about how to do that within the coming weeks.

The ASA staff and JSM program committee will be working hard to transition the JSM to a virtual event and appreciate your support during this time. Should you have any questions in the meantime, please feel free to send an email to meetings@amstat.org.



American Statistical Association

Math Alliance Mentors Win NSF CAREER Awards!

Math Alliance Mentors win **NSF DMS CAREER awards**:

- Owen Gwilliam
- Lucas Janson
- Nancy Rodriguez
- Hiro Tanaka

Congratulations to all the this year's winners!

Scholarships Available for the Summer Institute in Statistical Genetics

26th Summer Institute in Statistical Genetics (SISG)

For more than two decades, the Summer Institute in Statistical Genetics (SISG) has introduced geneticists to modern methods of statistical analysis and statisticians to the challenges posted by modern genetic data. Bruce Weir serves as the Director of SISG.

2021 Dates: Online July 7-23, 2021 Scholarship information and Application

- General registration is open.
- Design a program relevant to your interest by choosing from module offerings.
- Most participants take 2 or 3 modules. Each module is two-and-a-half days.
- Participants receive a certificate of completion.

The goal of SISG is to strengthen the statistical and genetic proficiency and career preparation of scholars from all backgrounds, especially those from groups historically underrepresented in STEM such as racial and ethnic minority groups, low income, first generation college students, veterans, and differently abled and 2SLGBTQ groups. For more information see the programs webpage.

AGEP ALLIANCE

Advancing the Faculty Careers of Historically Underrepresented STEM Doctoral Candidates who are Instructors at Historically Black Universities

- Are you (or have you ever been) a tenured faculty member?
- Want to make a difference in the next generation of underrepresented minority faculty?

The HI Bridge to Academia Faculty Mentoring Program wants YOU!

- Incentives
- \$2000 honorarium plus travel to summer institute at Virginia Tech.
- Enhanced faculty mentor training.
- Expanded network of faculty and researchers.

For more information: https://liberalarts.vt.edu/departments-and-schools/school-of-education/experience/agep-alliance.html

To sign up: https://forms.gle/kXi6bGyCRmA2QAyR7



Virtual



STATFEST 2021

A Conference for Undergraduate Students

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

Saturday and Sunday September 18 and 19, 11am ET

Join us!



StatFest encourages historically underrepresented undergraduate students to consider careers and graduate studies in the statistical sciences.

Enjoy two packed half days of discussion panels and talks from established professionals, academic leaders, and current graduate students.

Cost FREE, registration required

Questions? Contact co-chairs:

Dr. Therri Usher <u>therri.usher@fda.hhs.gov</u>
Dr. Brittney Bailey <u>bebailev@amherst.edu</u>

More

Information https://community.amstat.org/cmis/events/statfest-2021



Big Data Summer Institute (BDSI) Virtual Concluding Symposium And Professional Development Day July 29-30, 2021



Hello everyone,

We would like to invite you to attend the Big Data Summer Institute's (BDSI's) CAPSTONE Event, our concluding Symposium on Big Data Health and Statistics. Undergraduate Students will give presentations based on the data sets they have been working on in their project groups and our Keynote Speaker will be **Amy Herring, PhD from Duke University.**

The Day following the symposium will focus on Professional Development, with a session led by the Princeton Review and Admissions Panels with faculty and student representatives from both the Biostatistics and Statistics Departments.

To conclude the day, I will give a Lecture on my personal and professional journey. More details can be found below and here on the **Big Data Summer Institute (BDSI) Website**.

There is no fee and the Symposium and Professional Day, which will be held virtually, are open to the public, please click the links below to view the schedules and register for both Day 1: Thursday, July 29th and Day 2: Friday, July 30th.

If you have any questions, or issues with registration, please contact Davina Barron at davinab@umich.edu.

We look forward to seeing you there. Go Blue!

Bhramar Mukherjee, PhDProfessor and Chair of Biostatistics
Director, BDSI

Click Here to Register for the Virtual Symposium, July 29, 2021

Click Here For The Professional Development Day Schedule

Click Here to Register for the Virtual Professional Development Day, July 30, 2021



Tenure-Track Position at California State University, Fresno



Applied Mathematics - Assistant Professor

Job No: 500855

Work Type: Instructional Faculty – Tenured/Tenure-Track

Location: Fresno

Fresno State invites applications for a full-time, tenure-track position in the Department of Mathematics beginning in Fall 2021 at the Assistant Professor rank. The successful candidate will generally: teach, supervise and advise undergraduate (B.S.) and graduate (M.S.) students; conduct research/scholarly activities (that lead to grants, presentations, and publications); and engage in service to the University and the community.

Oualifications:

An earned doctorate (Ph.D.) in Applied Mathematics or closely related discipline. Candidates nearing completion of their doctorate (ABD) may be considered. However, for an appointment, the doctorate must be completed by August 1, 2022.

Application Procedures: Review of applications will begin Monday, November 1, 2021, and will continue until the position is filled. For best consideration apply by this date. This position automatically closes on May 1, 2022.

Apply online at: https://apptrkr.com/2296521

Tenure-Track Assistant Professor Position Announced at California State University, East Bay



The Department of Mathematics at CSU East Bay is seeking a tenure track faculty member at the Assistant Professor level to help increase the number of underrepresented minority students in STEM fields, to teach undergraduate and graduate level numerical analysis, optimization and a range of other applied courses and to engage students in applied mathematics research. In addition, we seek a colleague who is versed in Active Learning -- a pedagogical approach that plays a key role in our curriculum, which is designed to support all incoming students regardless of academic preparation. We have faculty who are active in grant funded curriculum design and research to support student success at all levels of mathematics and the successful candidate will be expected to engage in this important work.

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For more information and to apply see: https://www.mathjobs.org/jobs/list/17776 .

Math Lecturer Position Announced at Johnson & Wales University



Summary

Lecturers are responsible for providing students with a rich, relevant and engaging academic experience. Lecturers maintain current expertise in the applicable content area and develop students through effective and innovative teaching and learning practices. Their teaching load is 12 credits per semester.

Essential Job Functions

- Demonstrates specialized knowledge and maintains expertise in the theory, skills, and pedagogy of the applicable discipline or profession
- Uses strategies and skills necessary to support student learning and prepares and delivers current and relevant course material in an understandable and motivating manner
- Continually assesses course objectives and instructional methods to improve teaching and learning
- Uses formative and summative assessments of student learning within assigned courses to inform instruction and improve student attainment of course objectives and program outcomes
- Engages and communicates with students in a way that promotes their learning
- Attends department meetings and other university events, as applicable
- Performs other duties assigned

Required Qualifications

- Minimum of a master's degree in mathematics or a related field of study from a regionally accredited institution of higher education
- Ability to teach freshmen level mathematics from basic math to calculus and statistics

Please note: Qualified candidates must live or relocate within a 100 mile radius of the Providence Campus location upon hire.

Embracing diversity for a richly inclusive community is a Guiding Principle at JWU. Our students, faculty and staff have varied backgrounds, experiences and perspectives that unite us as one community and contribute to our success. We are committed to enhancing the diversity of our workforce teams and we encourage individuals from underrepresented groups to apply.

Johnson & Wales University is an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, age, sexual orientation, gender identity or expression, genetic information, national origin, disability status, protected veteran status or any other basis prohibited by law.

If you are interested in this opportunity, we invite you to apply on the JWU Employment Site at http://work.jwu.edu, requisition # 7014.

To learn more about Johnson & Wales University go to http://www.jwu.edu.



MATH ALLIANCE PARTNER INSTITUTION

Lecturer Position in Department of Mathematics Announced at Purdue University



Department of Mathematics Lecturer

Applications are invited for Lecturers in Mathematics. Candidates must have M.S. (or equivalent) in mathematics or in closely related areas. Two years of experience in mathematics teaching at the junior college or university level desired. Duties include teaching precalculus and applied calculus at the freshman level. Working with staff, TAs, assist in coordinating courses, carrying out instructional goals. Opportunity for summer teaching. Start date is August 16, 2021.

Starting academic-year salary is in the \$54,000 to \$61,000 range, commensurate with experience. All applications are to be submitted via

https://career8.successfactors.com/sfcareer/jobreqcareer?jobId=13963&company=purdueuniv.

Review of applications will begin on June 1, 2021 and will continue until the position is filled. For more information about our department, see www.math.purdue.edu/.

A background check is required for employment in this position. Candidates must have the ability to work in the U.S. without immigration sponsorship from Purdue University.

Purdue University's School/Department of Mathematics is committed to advancing diversity in all areas of faculty effort, including discovery, 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.



MATH ALLIANCE PARTNER INSTITUTION

Lecturer in Mathematics Position in the Department of Mathematics Announced at Purdue University



Department of Mathematics Lecturer

Applications are invited for Lecturers in Mathematics. Candidates must have a Ph.D. (or equivalent) in mathematics or in closely related areas. Two years of experience in mathematics teaching beyond Calculus II.

Duties: Teach Linear Algebra, Differential Equations. Work with staff, TAs, coordinate courses, carrying out instructional goals. Opportunity for summer teaching. Start date is August 16, 2021.

Starting academic-year salary is in the \$57,000 to \$72,000 range, commensurate with experience.

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 a separate Diversity and Inclusion Statement, indicating their past experiences, current interests or activities, and/or future goals to promote a climate that values diversity and inclusion. A background check will be required for employment in this position.

Application procedure: Please submit a cover letter, CV, a teaching statement and a diversity statement. Your CV should include information on what courses you have taught, how many times, and whether as a recitation instructor or instructor of record.

All applications are to be submitted via: https://careers.purdue.edu/job/West-Lafayette-Lecturer-IN-47906/755756300/?locale=en_US

Review of applications will begin on June 28, 2021 and will continue until the position is filled. For more information about our department, see www.math.purdue.edu/.

Purdue University is an EOE/AA employer fully committed to achieving a diverse workforce. All individuals, including minorities, women, individuals with disabilities, and veterans are encouraged to apply.



MATH ALLIANCE MEMBER INSTITUTION

Postdoctoral Fellowship in Environmental Heath Biostatistics **Announced at The University of Rochester**



University of Rochester: The University of Rochester (UR) and it's medical center (URMC) are devoted to providing highly advanced medical care, complemented by OCHESTER excellence in research, education and technology. We strive to improve the well-being of patients and communities by delivering innovative, compassionate, patient- and

family-centered health care. Our vision is to cultivate a diverse and inclusive environment that guides and transforms our approaches to healthcare, education, research and community partnerships.

Rochester is in the Finger Lakes region of western New York State, where the cost of living is reasonable and housing is affordable. URMC has an active postdoctoral association that offers career development and networking opportunities, see https://www.urmc.rochester.edu/education/post-doctoral.aspx.

Duties and responsibilities: Applications are invited for a postdoctoral fellowship in Environmental Health (EH) Biostatistics in the Department of Biostatistics and Computational Biology at UR, funded by an NIEHS T32 training grant. The department includes 17 tenure-track and 3 research-track faculty and approximately 25 graduate students. Our goal is to prepare qualified predoctoral and/or postdoctoral trainees for careers that have a significant impact on the health-related research needs of the country within a diverse and inclusive environment. Depending on statistical training, the appointee will develop novel statistical methodology for projects related to EH, or carry out applied statistical analyses for EH-related projects, under the co-mentorship of Biostatistics and EH faculty trainers. Methodological expertise among Biostatistics faculty trainers includes Bayesian MCMC methods, models for multiple outcomes, latent variable models, measurement error, missing data, causal inference, survival analysis, clustering, statistical genomics, molecular systems biology, and bioinformatics.

The specific area of methodological development or applied analysis may be based in part on the trainee's interests, and may be motivated by ongoing EH research at UR, such as studies of the effects of exposure to air pollution, metals, endocrine disruptors, pesticides, shale gas (fracking) or stress on pregnancy outcomes, reproduction, immune function, neurodevelopmental disorders, cognitive outcomes, or gene expression pathways. The appointee will also receive further training in biostatistics and toxicology, and be involved in collaborative work with EH researchers. Interested trainees will have the opportunity to gain experience in community engaged research related to understanding and addressing environmental health problems.

Position qualifications: Candidates should have a doctoral degree in (bio)statistics, epidemiology, computational biology, data science, environmental health or a related field, with training in statistics and programming, and excellent communication skills. In accordance with NIEHS regulations, trainees must be US citizens or non-citizen nationals of the US who have been lawfully admitted for permanent residency, and must have a doctoral degree by the start date. The initial appointment is for one year with the possibility of renewal for a second year. The candidate should plan to start in fall 2021, but a later start date will also be considered.

Application instructions: A cover letter describing research experience, a current CV, graduate transcript (can be unofficial) and contact information for three references should be sent to Sally Thurston@urmc.rochester.edu (please reference "NIEHS postdoctoral position" in the subject). Applications will be accepted until Sept 1 or untilfilled. For more information see https://www.urmc.rochester.edu/biostat/training-grant.aspx.

The University of Rochester is committed to fostering, cultivating and preserving a culture of equity and inclusion. The University believes that a diverse workforce and inclusive workplace culture enhances the performance of our organization and our ability to fulfill our important missions. The University is committed to fostering and supporting a workplace culture inclusive of people regardless of their race, ethnicity, national origin, gender, sexual orientation, socio-economic status, marital status, age, physical abilities, political affiliation, religious beliefs or any other non-merit fact, so that all employees feel included, equal valued and supported.

CALL FOR APPLICATIONS & NOMINATIONS

Chief Editor of the Bulletin of the American Mathematical Society

Seeking applicants who thrive on communicating contemporary mathematics research to a broad range of mathematical scientists.

POSITION

Applications and nominations are invited for the position of Chief Editor of the Bulletin of the American Mathematical Society. The new editor-designee will be appointed as an Associate Editor beginning February 1, 2022 and will become Chief Editor and a member of the AMS Council for a three-year term from February 1, 2024 through January 31, 2027. The applicant must demonstrate excellent editorial judgment and communication skills. Although the Bulletin Chief Editor is appointed for a term of three years, candidates willing to make a longer commitment will be preferred, as it is expected that the Bulletin Chief Editor will be reappointed for subsequent terms pending successful performance reviews.

The Bulletin publishes substantial survey articles on contemporary mathematical research, written in a way that gives insight to mathematicians who may not be experts in the particular topic. Many of the expository articles are invited. The Bulletin also publishes reviews of selected books in mathematics and short articles in the Mathematical Perspectives section, both by invitation only.

The Bulletin of the American Mathematical Society is published quarterly with articles posted individually to the AMS website before appearing in an issue.

QUALIFICATIONS

We welcome applications from individuals with strong mathematical research experience, broad mathematical interests, and a commitment to communicating mathematics to a diverse audience. The AMS strives to serve mathematicians of all disciplines in an inclusive, equitable, and welcoming fashion. Candidates that share in this approach are strongly encouraged to apply.

DUTTIES

The Chief Editor has editorial responsibility for the *Bulletin* within broad guidelines. The Chief Editor is assisted by two boards of associate editors (one for Articles and one for Book Reviews), appointed by the Council upon recommendation of the Chief Editor. The associate editors help to fashion the contents of the *Bulletin* and solicit material for publication. The *Bulletin* also has on its editorial board one person responsible for the popular Current Events Bulletin event at the Joint Mathematics Meetings. AMS staff in Providence provide all production and administrative support. The Chief Editor will operate from their home institution. Some financial support for this work is available, typically in the form of release time. In order to begin working on the January 2024 issue, some editorial work would begin early in 2023.

APPLICATIONS & NOMINATIONS

The Chief Editor is appointed by the Council upon recommendation by a Search Committee. Please submit your application—including a CV and letter of interest—through www.MathPrograms.org. At a later stage in the process you may be asked for references, i.e., the names of up to three people who are willing to be contacted by us for more information.

Please send nominations or questions to Dr. Catherine Roberts, Executive Director, at croberts@ams.org. Applications received by September 2, 2021 will be assured full consideration.



The AMS supports equality of opportunity and treatment for all participants, regardless of gender, gender identity or expression, race, color, national or ethnic origin, religion or religious belief, age, marital status, sexual orientation, disabilities, veteran status, or immigration status.