The University of Texas at San Antonio Department of Management Science and Statistics Tenure-Track Position in Statistical Modeling for Big Data at the rank of Assistant Professor, beginning Fall 2023

Job Description

This position aims at fulfilling the department's needs to support numerous college and university-wide programs in the statistics and artificial intelligence areas—such as Ph.D. in Applied Statistics, M.S. in Statistics and Data Science, M.S. in Data Analytics, M.S. in Artificial Intelligence, and various undergraduate programs. This position aligns with the department, college, and university goals to support multidisciplinary programming and collaboration with the School of Data Science, College of Science, College of Engineering and Integrated Design, and the University College. The department's degree programs in Statistics and Data Science, along with the new BBA in Business Analytics degree program, are in need of faculty with strong statistical understanding, artificial intelligence research interests and/or experience with open source research software projects and tool development. These will complement and supplement the existing capabilities of the department. This position will also enhance the student experience in these fields, both through pedagogy and various experiential learning opportunities. This focus on student experiential learning aligns with the college goals to develop more opportunities for undergraduate research pursuits. In addition, given the college and university goals of increasing funded research expenditures, this position can be instrumental in the endeavor of increasing funded research expenditures. Collaborations between departments are critical and this position will allow the faculty hired to serve on various research and practical projects and contribute to the growing demand in statistics and analytics. Overall, the faculty position's skill set will provide unique perspectives that will expand the profile of the department and current faculty.

Qualifications

Required Qualifications

   (1) An earned (or expected before the Fall semester of 2023) Ph.D. in Statistics, Biostatistics, Data Science or a closely related area from an accredited university.

   (2) Strong potential for engaging in high quality research in statistical modeling for Big Data problems and for publishing in the highest level journals.

   (3) Expertise in one or more of the following areas: high-dimensional data inference and modeling, over-parametrized modeling with regularization, causal inference, dimension reduction, variable selection, survey sampling, and multilevel/hierarchical modeling.

   (4) Strong potential for getting external funding for research projects.

(5) A demonstrated ability in teaching effectively at the undergraduate, master's and Ph.D. levels in the areas of statistics and analytics.

(6) Strong verbal and written communication skills.

(7) The ability and desire to work collegially with faculty and students from diverse cultural backgrounds, especially with historically underrepresented students.

Preferred Qualifications

(1) Strong interests in interdisciplinary collaborations with researchers from:
(i) departments within the Alvarez College of Business (e.g., Marketing, Finance, Information System and Cybersecurity, etc.); (ii) departments in other UTSA colleges (e.g., Public Health, Engineering, Science, etc.); or (iii) other universities (e.g., UT Health Science at San Antonio).

(2) Experience with scientific open source projects, tool development and reproducibility.

(3) Research interests align with Institutional Strategic Research Initiatives:

- Data Science/Data Analytics/Big Data

- Healthcare Analytics

- Computational/Informatics

- Digital/Cloud

- Energy and Environment

- National Security/Intelligence

Department of Management Science and Statistics

The department has 17 tenured/tenure-track faculty members. Faculty members are actively engaged in research and support the existing doctoral, master, and undergraduate programs within the college. Untenured, tenure-track faculty teach three courses per year.

The Carlos Alvarez College of Business, UTSA, and San Antonio

With over 7,900 students, the UTSA Carlos Alvarez College of Business is one of the 40 largest business schools in the nation and offers a comprehensive curriculum at the undergraduate, master's and doctoral levels. Accredited by AACSB International, the college was named one of the Top 5 undergraduate business programs in Texas by Bloomberg Businessweek. At the graduate level, the college was ranked the No. 4 Hispanic Serving part-time MBA program in Texas by U.S. News & World Report. UTSA is a comprehensive urban serving and Hispanic-thriving university, with over 34,000 students on four campuses in San Antonio, committed to student success and academic excellence, including growing doctoral education.

UTSA has achieved the Very High Research Activity (R1) classification by the Carnegie Foundation. It is located at the edge of the scenic Texas Hill Country and offers the amenities of a major multicultural, metropolitan area. With a population of over 1.5 million, San Antonio is the 7th largest city in the US, located within a few hours' drive to Austin, Dallas, Houston, the Gulf of Mexico, and the Mexican border. Major industries in the city are in the areas of healthcare and biosciences, finance, tourism, military and cybersecurity.

Salary and Benefits

Salary and benefits are competitive and commensurate with qualifications and experience. UTSA offers an attractive package of benefits including medical and dental coverage plus a choice of participation in the Teacher Retirement System or an Optional Retirement Plan.

Application Procedure

Applicants should submit: (a) letter of application, which should include the names of three references along with their contact information (address, email, phone number). (b) CV, which should include information about the date of graduation or expected graduation date, field of their academic degree(s) and citizenship or visa status. (c) statements of research and teaching,which should include a discussion of the role of equity, diversity and inclusion in academic environments, evidence of research (publications and/or working papers) and evidence of teaching accomplishments. In addition, applicants must be able to show proof that they are eligible and qualified to work in the United States by the time of hire.

Applicants must submit their full application package using the job website located at https://bit.ly/3wRi4Tm under the position title "Assistant Professor Position in Statistical Modeling for Big Data" with job ID 8565.

Applications will be accepted until the position is filled. However, to ensure full consideration, applicants should submit their application materials no later than October 15, 2022, the date that screening of applications will begin.

Additional information about UTSA, the Carlos Alvarez College of Business, and the Department of Management Science and Statistics can be found at the following websites: http://www.utsa.edu/, https://business.utsa.edu/ and https://business.utsa.edu/management-science-statistics/.

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