

## Jeffrey S. Vitter

<http://www.cse.tamu.edu/people/faculty/vitter/>

Jeff Vitter is a professor in the Department of Computer Science and Engineering at Texas A&M University. From 2008–2009, he served as provost and executive vice president for academics, with responsibility as chief academic officer for a university of 2,800 faculty, 5,500 staff, 48,000 students, and an annual budget of \$1.2 billion. He also oversaw the academic mission of Texas A&M University in Doha, Qatar. In collaboration with deans and faculty, Dr. Vitter successfully launched a number of important recruiting efforts and far-reaching initiatives, including those dealing with faculty start-up allocations, multidisciplinary priorities, balanced scorecard reviews and recognition, and diversity. Most significantly, he initiated and led the campus-wide development of the Academic Master Plan — with Roadmaps in Teaching-Learning, Research, and Engagement, along with overarching enablers. It forms the strategic plan that will guide Texas A&M to its destination set out 10 years ago in Vision 2020 as a top-10 comprehensive public university.

From 2002–2008, Dr. Vitter served as the Frederick L. Hovde Dean of Science at Purdue University. As dean, he was chief academic officer and administrator of the College of Science, which comprised seven departments with 325 faculty, 550 staff, 3,800 students, and an annual budget of \$130 million. The courses in the college accounted for a quarter of the university's 1 million student credit hours. Dr. Vitter led the collaborative development of two strategic plans for the college, establishing a dual focus of excellence in the core departments as well as in multidisciplinary collaborations. The college grew by 60 faculty members, primarily hired under the innovative COALESCE program targeting multidisciplinary priorities. He launched a comprehensive study of the undergraduate program, which resulted in an innovative outcomes-based curriculum approved by the faculty and implemented in 2007. He instituted the Science Business Partners Program and nurtured many successful funding efforts. He proposed and co-developed the LEAD initiative for diversity awareness. Several programs in the college are ranked among the best nationally.

From 1993–2002, Dr. Vitter held a distinguished professorship at Duke University, as the Gilbert, Louis, and Edward Lehrman Professor of Computer Science. He was department chair from 1993–2001 and co-director and a founding member of the Center for Geometric and Biological Computing from 1997–2002. As chair, he led the department to significant improvements in stature — characterized by a top-20 ranking, stellar faculty hires, dynamic strategic plans, a culture of inclusiveness, curriculum redesign, administrative reorganization, large growth in students, creation of a successful corporate program, and rise in sponsored research expenditures to 250%. From 1980–1993, he progressed through the faculty ranks and served in leadership roles at Brown University. His educational degrees include a BS with highest honors in mathematics from the University of Notre Dame in 1977, a PhD in computer science under Don Knuth from Stanford University in 1980, and an MBA from Duke in 2002. He was born and raised in New Orleans.

Dr. Vitter is a Guggenheim Fellow, an ACM Fellow, an IEEE Fellow, an AAAS Fellow, an NSF Presidential Young Investigator, and a Fulbright Scholar. He has over 280 book, journal, conference, and patent publications, primarily on how to process massive amounts of information. His Google Scholar h-index is 55. His most recent book examines external memory algorithms, a field he helped found. He is co-holder of patents in the areas of external sorting, parallel I/O, prediction, and approximate data structures. He proposed the concept and participated in the design of the Indiana Database for University Research Expertise, [www.indure.org](http://www.indure.org). Dr. Vitter serves on the Board of Advisors for the School of Science and Engineering at Tulane University, and from 2000–2009 he served on the Board of Directors of the Computing Research Association, where he continues to co-chair the Government Affairs Committee. He has served as chair of ACM SIGACT and on the executive council of the EATCS, as well as on numerous review committees. Sabbatical sites have included MSRI, INRIA (Rocquencourt, France), Ecole Normale Supérieure (Paris), Bell Labs, and INRIA (Sophia Antipolis, France).