



Williams named ASA Fellow

May 27, 2015

The American Statistical Association (ASA) has honored Brian Williams of LANL's Statistical Sciences group with the title of Fellow. Williams is recognized for fundamental methodological contributions to the statistical design of experiments involving computer simulators and the analysis of data from such experiments including uncertainty quantification; excellence in leadership of uncertainty quantification in critical federal programs; excellence in collaborative research, and service to the ASA. He will be inducted as an ASA Fellow at a ceremony at the 2015 Joint Statistical Meetings in Seattle in August.

Williams's achievements

Williams earned a doctorate in statistics from The Ohio State University. He worked at the RAND Corporation before joining the Laboratory in 2003. His research includes experimental design, computer experiments, Bayesian inference, spatial statistics, and statistical computing. Williams contributes to the development and implementation of statistical methods for the design and analysis of computer experiments, focusing on the technical areas of sequential optimization, global sensitivity analysis, calibration, predictive maturity assessment and rare event inference for computer models. He is developing technology for efficient Bayesian experimental design. Williams also coauthored a book entitled *The Design and Analysis of Computer Experiments* with Thomas J. Santner and William I. Notz of Ohio State.

His other awards include a Los Alamos Achievement Award for his leadership role in the Consortium for Advanced Simulation of Light Water Reactors (CASL) Program, serving as deputy lead of the Validation and Modeling Applications Focus Area; a DOE/NNSA Defense Programs Award of Excellence for "significant achievements in advancing Quantification of Margins and Uncertainty (QMU)," supporting QMU analyses for certification of the FY07 W76 Life Extension Program and the W88 Major Assembly Release; and a LANL Distinguished Performance Award for his work supporting uncertainty quantification projects for the Advanced Simulation and Computing Primary Verification and Validation Assessment Team.

About the ASA

The American Statistical Association is the world's largest community of statisticians. The ASA supports excellence in the development, application and dissemination of statistical science through meetings, publications, membership services, education, accreditation and advocacy. The 18,000 members serve in industry, government

and academia in more than 90 countries, advancing research and promoting sound statistical practice to inform public policy and improve human welfare. The Fellow Award is a distinction reserved for less than 1/3 of one percent of the ASA membership.

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