

Biographical Summary

Hua-Jun Fan

Dr. Huajun Fan is a full and tenured professor in the Department of Chemistry at Prairie View A&M University (PVAMU) since 2004. For the last five years, he has been PI of the DOE NNSA's MSIPP project entitled "Consortium for Materials Energy Security" before he assumed the PI role at MACH III center. In the last 15 years, he managed more than \$12 million in grants, projects and funding from the US National Science Foundation, US Department of Energy, US Department of Education, and US Air Force Research Laboratory. He published more than 30 peer reviewed journal articles with students and close to 90 research posters and presentations at local, regional and national scientific conferences. He established collaborations with Indiana University, Iowa State University, Tennessee State University, Texas Tech University, the University of Texas at San Antonio, Texas A&M University (College Station), the University of Mississippi, Louisiana State University, Central Michigan University, InterAmerican University of Puerto Rico, Pacific Northwest National Laboratory, Lawrence Livermore National Laboratory, and Los Alamos National Laboratory. He also established a computational chemistry modeling research facility at PVAMU.

Under his mentorship, students were admitted into advanced degree programs at Texas A&M University, the University of Oregon, the University of Michigan, the University of Mississippi, the University of Tennessee, and PVAMU. Some students were employed by major corporations such as Lockheed Martin Aeronautics Company in Fort Worth, TX, Boeing Inc., SC, QC Laboratory, Sandia National Laboratory, 3M Co., Hewlett Packard in Corvallis, OR, AIG in Fort Worth, TX, BASF Chemical Company and Northrop Grumman Corporation, Melbourne, FL.. Dr. Fan received the "Outstanding Service Recognition award" for his Service-Learning and Community Service, four times "The Most Outstanding Teaching Award" from the College Arts and Sciences, and was a finalist for the President's Most Outstanding Teaching Award at PVAMU.

Dr. Fan is one of the student's favorite professors on campus. He is creative in assisting student learning and a strong advocate of undergraduate research. For example, he designed a Chemistry for engineering course that is calculus-based chemistry course to meet the requirements of ABET accreditation but tailored to the students learning at PVAMU. Using culturally responsive pedagogy, he introduced various teaching techniques such as the Process Oriented Guided Inquiry Learning (POGIL), peer-led team learning (PLTL) model, context-led approaches (CLA), modified flipped classroom model, and Vernier Technology into the classroom and laboratory. Dr. Fan was the 4-time winner of the Most Outstanding Teaching Award of College and finalist for the President's Most Outstanding Teaching Award. He also received outstanding Service Recognition for his Service-Learning and Community Service at Prairie View A&M University.