

Co-Chair of Dept. of Mathematics;  
Tenured Associated Professor of Mathematics and Business

Specialty: Mathematics-Actuarial Sciences

Office Location: Dent Hall 148

Office Telephone Number: (504) 816-4728

Email address: hdai@dillard.edu

Courses Taught:

Calculus I, II, III, Differential Equations, Real Analysis I, II, Modern Algebra I, II, Numerical Analysis, Complex Analysis, Discrete Mathematics, Foundation of Mathematics, Probability and Mathematical Statistics, Mathematical Statistics, Linear Algebra, Pre-Calculus, Contemporary Mathematics, Finite Mathematics, College Algebra, Intermediate Algebra, Quantitative Methods for Business, Risk and Insurance Management, Operation/ Production Management, Computer Applications in Economics and Business, and Applied Mathematics in Economists.

Research and/or Teaching Interests:

Actuarial Mathematics, Computing Modeling, Numerical Analysis, Risk Analysis, Operations Research and Teaching Mathematics with Technology

University Service:

Chair of Dillard University Study Abroad Committee;  
Committee Member of SACS Educational Program Reviews Ad Hoc Committee;  
Dillard University Platform Marshal (since 2007);

Professional Affiliations:

- 1) Member of American Mathematical Society (AMS);
- 2) Member of the Mathematical Association of America (MAA);
- 3) Member of the Chinese Mathematical Society;
- 4) Board Member of Louisiana Chinese American Society (LACAS).

Selected Publications:

- 1) Jun Wang and Hong Dai, "Thermo-elastic Equations without Energy Dissipation for Materials with Voids", International Journal of Mathematical Sciences, January of 2006
- 2) Hong Dai, "Applications of Simulation Methods in Insurance Industries" Proceeding of the 2nd Hawaii International Conference of Mathematics and Related Subjects, July of 2004

3) Jean Clair Williams and Hong Dai, "Study on Survival Function and Its Application", Proceeding of the National Sciences Foundation-HBCU-UP Conference, New Orleans, 2004

Selected Presentations:

- 1) Co-Chair of Mathematics and Computer Sciences Session in the National Conference of Quality Education for Minority(QEM), New Orleans, Louisiana, 2008;
- 2) Chair of Mathematics and Statistics Session in the National Science Foundation HBCU-UP Conference, New Orleans, Louisiana, 2004;
- 3) Chair of the Statistics and Applications Session in the 2nd Hawaii International Conference of Mathematics and Related Subjects, Honolulu, Hawaii, 2004;
- 4) Panelist in the National Conference of Quality Education for Minority(QEM), Jackson, Mississippi, 2002

Selected Grants/Awards:

- 1) Co-PI (with PI-Dr. Wilson and etc.) "Digital Mathematics Laboratory", HBCU-UP grant, \$2,700,000.00, for five years, funded by National Science Foundation (NSF), 2004~2009;
- 2) PI, "Enhancement of Undergraduate Actuarial Science-Phase III (UAS-III), \$49,000.00, funded by Board of Regent (BOR), 2008~2009;
- 3) PI, "Enhancement of Undergraduate Actuarial Science-Phase II (UAS-II), \$74,000.00, funded by Board of Regent (BOR), 2005~2007;
- 4) First Co-PI (with PI-Dr. Peter Frempong) "Achieving Educational Excellence through Technology (AMETT- I), about 100,000.00, funded by Board of Regent (BOR), 2005~2007
- 5) First Co-PI (with PI-Mr. Beard), "Enhancement of Pre-Mathematics Initiative (EPMI), \$57,000.00, funded by Board of Regent (BOR), 2005~2007.