

WILLIAM F. BRYANT, JR.

EDUCATION

2010-Present	University of Texas Health Science	Houston, Texas
<i>Doctor of Philosophy in Biomedical Informatics and Master of Public Health Pending Graduation</i>		
2006-2008	Rice University	Houston, Texas
<i>Master of Arts in Statistics</i>		
2002-2006	Texas Southern University	Houston, Texas
<i>Bachelor of Science in Mathematics • Magna Cum Laude</i>		

RESEARCH AND WORK EXPERIENCE

September 2008 – Present	City of Houston	Houston, Texas
<i>Biostatistician, Department of Health and Human Services – Bureau of Epidemiology</i>		

Responsibilities -

- Research, develop, plan, and formally propose analysis solutions for statistical problems and their applications to epidemiology, disease surveillance, and other functions for the Bureau and Department of Health and Human Services.
- Administrator for the department's online disease database system (Maven).
- Maintains and ensures the integrity of all other databases within the Bureau.

May 2010 – Present	University of Phoenix	Houston, Texas
<i>Faculty, College of Natural Sciences</i>		

Courses Facilitated – First Year Mathematics Sequence MATH 208 and MATH209 (Combination of courses is equivalent to traditional schools College Algebra)

- MATH 208 : July –August 2010, October – November 2011, October - November 2012
- MATH 209 August – September 2010, November – January 2012, November - December 2012

February 2011 – May 2012	Texas Southern University	Houston, Texas
<i>Adjunct Instructor, College of Science and Technology – Department of Mathematics</i>		

Responsibilities -

Courses Instructed – College Algebra (MATH 133)

- Spring 2011, Fall 2011, Spring 2012, Fall 2012

May 2008 – August 2008	Rice University	Houston, Texas
<i>Lab Instructor, Rice University Summer Institute of Statistics</i>		

Responsibilities -

- Reinforced statistical concepts taught in lecture to student interns through practical exercises programmed in statistical and mathematical programs.
- Aided students in programming issues with their projects.
- Updated program's website.

- June 2008 – July 2008 Lilly Grove Summer Enrichment Program Houston, Texas
Classroom Instructor, 8th and 9th Grade Mathematics
- Responsibilities -
- Developed and implemented lesson plans that fulfill the requirements of program's curriculum and Texas Education Agency grade/content specifications.
 - Model effective instructional and classroom management strategies.
 - Create a classroom environment conducive to academic, social, emotional, and spiritual development.
- June 2007 – September 2007 University of Texas M. D. Anderson Houston, Texas
Graduate Research Assistant, R25 Cancer Prevention Research Training Program
 Project Title – “A Study on Statistical Methods for Mutagen Sensitivity in Twins”
 Advisor – Dr. Sanjay Shete
- Project Summary –
- Identified SNPs along the NER pathway which modulate mutagen sensitivity using data from a twin study and introduced unrelated individuals to note the genetic heritability of the trait.
- August 2006 – May 2008 Rice University Houston, Texas
Teaching Assistant, Department of Statistics
- Responsibilities –
- Reinforced statistical concepts taught in lecture to students through practical exercises in Excel.
 - Held weekly homework sessions with the students.
 - Assigned grades to weekly homework submitted by the students.
- May 2005 – July 2005 Rice University Houston, Texas
Intern, Rice University Summer Institute of Statistics
 Project Title – “A Comparative Study of Sib-Trait Linkage Analysis Methods”
 Advisor – Dr. Javier Rojo
 Group Members – Jessica Faucett, Stephanie Hicks, and Bethany Jablonski
- Project Summary –
- Compared and contrasted several techniques used in linkage analysis on simulated data.
- June 2004 – August 2004 Texas A&M University College Station, Texas
Intern, Dwight Look School of Engineering Undergraduate Summer Research Grant
 Project Title – “Thermodynamic and Mechanical Methods for Calculating the Osmotic Pressure of Colloidal Dispersions”
 Advisor – Dr. Michael A. Bevan
- Project Summary –
- Aided research group in developing FORTRAN and Mathcad code that will be used in the study of colloidal dispersions.
- June 2003 – May 2006 Texas Southern University Houston, Texas
Teaching Assistant, Department of Mathematics
- Responsibilities –
- Held review/help sessions for students in undergraduate math courses
 - Assigned grades to weekly homework/quizzes submitted by students
- June 1999 – August 1999 Western Carolina University Cullowhee, North Carolina
Summer Researcher, Regional Upward Board Math and Science

Project Title – “Geographic Variation and Antipredatory Behavior in *Desmognathus ocoee*”
Group Members – Trey Blount, Willie Cobb, Dominic Lawson, Henry Robinson, Jr., and
Phi Salter

ORAL AND POSTER PRESENTATIONS

“On A Connection Between Linear Operators and Linear Differential Equations.” William F. Bryant, Jr.* and Willie E. Taylor, Ph.D., Texas Academy of Sciences, Schreiner University, Kerrville, Texas, March 2004 and TSU Annual Research Day, Texas Southern University, Houston, Texas April 2004.

“Generating Second-Order Differential Equations and Some Properties of Their Solutions.” William F. Bryant, Jr.,* Jessica J. Poole, Willie E. Taylor Ph.D., Texas Academy of Sciences, Stephen F. Austin State University, Nacogdoches, Texas, February 2003 and Texas-LSAMP Undergraduate Research Conference, South Padre Island, Texas, September 2003.

AWARDS AND ACHIEVEMENTS

- 2009 TSU College of Science and Technology Outstanding Alumni Award Recipient
- 2006 Rice-Houston Alliance for Graduate Education and the Professorate Fellow
- 2002 Gates Millennium Scholar
- 2002 Houston-Louis Stokes Alliance for Minority Participation Scholar
- 2004 Golden Key International Honor Society Inductee

COMPUTING KNOWLEDGE AND CERTIFICATION

- SAS, R, S-Plus
- SQL Programming
- Windows and Unix Operating Systems
- Mathematica, Mathcad
- FORTRAN
- Microsoft Office
- ESRI ArcGIS Desktop Certified