

The graduate programs in the **Department of Statistical Science at Baylor University** provide graduate students with a balanced education in statistical theory methods while promoting communication skills. In our program, we strive to develop well-rounded statisticians through meaningful mentorships, diversified educational experiences, and scholarly research methods and opportunities.

## PROGRAMS

Statistical Science offers the Master of Science (M.S.) and the Doctorate of Philosophy (Ph.D.). We admit only Ph.D. applicants. It is often that our students earn their M.S. as they work toward the Ph.D. without any loss of time toward the Ph.D.

- **Master of Science (M.S.)** This option requires 36 graduate hours, including 12 statistics core hours, 21 approved elective hours, and a 3-hour practicum attained through serving as a teaching assistant or a research data analyst. Students must also pass an oral exam to earn the M.S.
- **Doctorate of Philosophy (Ph.D.)** This degree requires 75 graduate hours, which include 27 statistics core hours, a consulting-teaching practicum of 3 hours, 36 approved elective hours, and 9 hours of dissertation work, followed by a successful dissertation defense. Currently, we offer all students admitted to the Ph.D. program full tuition payment and a competitive stipend. Some of our Ph.D. students who are especially competitive often receive an enhanced stipend from the Graduate School.

## CAREER OPPORTUNITIES

The occupation of statistician is one of the top 10 fastest growing jobs in the U.S. With an advanced degree in statistics, students can choose careers in corporate, industrial or academic settings. Many of our alumni now work as analysts or research scientists for organizations like Liberty Mutual Insurance Company, the FDA, or Novartis. Others work as biostatisticians at Eli Lilly and Company, the Mayo Clinic, or Baylor Scott and White Health. Many others have become successful with careers in academics at universities like University of Tennessee at Martin, or the University of Southern California.

## RESEARCH HIGHLIGHTS

Our department is known for its advanced research in Bayesian statistics and environmental statistics. We are also proud of the collaborative research conducted by our faculty and students in other scientific fields. In the last three years, our students have had internships with companies and organizations such as Johnson & Johnson, Baylor Scott & White Health, and STEEP Analytics. We have also received research funding from Eli Lilly & Co. and grants from the National Science Foundation, and multiple other prominent funding agencies. Consulting work for Baylor and other departments provides our students with experience and exposure to a wide range of specific fields, varying from biological to social sciences, or from ancient climates to astrophysics.

## FACULTY

Our faculty is comprised of talented professors who are active contributors and leaders in their fields, as evidenced by their consistency of quality publications in scholarly journals. Their individual accomplishments range from work and presentations on software to receiving research grants from such prestigious foundations as the National Science Foundation (NSF).  
\*See back for list of faculty

## CONTACT

Jane L. Harvill, Ph.D. | Graduate Program Director  
Department of Statistical Science  
One Bear Place #97140 | Waco, TX 76798  
254-710-1517 | Email: [Jane\\_Harvill@baylor.edu](mailto:Jane_Harvill@baylor.edu)  
[Baylor.edu/statistics](http://Baylor.edu/statistics)



# STATISTICAL SCIENCE GRADUATE FACULTY

---

**JANE L. HARVILL, PHD**

*Graduate Program Director & Professor*

Time Series and Spatial Statistics, Environmental Statistics, Computational Methods

---

**AMANDA S. HERING, PHD**

*Associate Professor*

Spatial and Space-Time Modeling, Multivariate and Cluster Methods, Outlier and Anomaly detection, Application to the Environment and Engineering

---

**JEANNE S. HILL, PHD**

*Undergraduate Program Director & Senior Lecturer*

Statistical Inference, Ranking and Selection, Reliability

---

**DENNIS A. JOHNSTON, PHD**

*Professor*

Mathematical Statistics, Biostatistics

**DAVID J. KAHLE, PHD**

*Associate Professor*

Statistical Computing and Graphics, Algebraic Statistics, Bayesian Computation

---

**AMY B. MADDOX, PHD**

*Senior Lecturer*

Multivariate Analysis, Sampling, Regression Analysis, Statistical Methodology

---

**JOSHUA D. PATRICK, PHD**

*Lecturer*

Time Series Analysis, Spatial Data Analysis, Nonparametric Regression

---

**JOHN W. SEAMAN, JR., PHD**

*Professor*

Bayesian Analysis

**JOON JIN SONG, PHD**

*Associate Professor*

Spatial Statistics, Functional Data Analysis, Bioinformatics

---

**JAMES D. STAMEY, PHD**

*Department Chair & Professor*

Bayesian Theory and Method

---

**JACK D. TUBBS, PHD**

*Professor*

Pattern Recognition, Ranked Data, Interdisciplinary Research

---

**DEAN M. YOUNG, PHD**

*Professor*

Mathematical Statistics, Computational Statistics, Multivariate Statistical Analysis, Pattern Recognition