

**STATISTICAL CONSULTING UNIT (SCU)  
DEPARTMENT OF MATHEMATICAL SCIENCES  
GEORGIA SOUTHERN UNIVERSITY**

## **1. Introduction**

The Statistical Consulting Unit consists of seven faculty members from the Department of Mathematical Sciences. The faculty of the SCU have demonstrated excellence relevant to the missions of Georgia Southern University and already had a major impact in the areas of mathematical statistics, statistical process control, multivariate statistical analysis, categorical data analysis, stochastic processes, clinical trials and reliability through their basic and applied research program and interactions with the university community and other institutions. The SCU develops statistical, mathematical and computational capabilities that directly contribute to further interdisciplinary interactions with scientists in other research and regional institutions as well as in the private sector and governmental agencies.

## **2. Goals**

The goals of the Statistical Consulting Unit at Georgia Southern University include:

- 1) provide outreach programs and avenues to enhance and improve the use of sound statistical principles among GSU community, industries and governmental agencies by providing expertise in basic applied statistical research;
- 2) strengthening interdisciplinary faculty research programs among faculty within the statistical unit and increase interactions with faculty members in other research and regional universities;
- 3) advance scientific knowledge in statistical sciences using advanced computational tools and developing new strategies and techniques for the applications of mathematical and statistical science research to a wide range of areas including education, psychology, engineering, and health related problems;
- 4) develop an interdisciplinary graduate program in applied statistical sciences and related areas;
- 5) provide high quality consulting, training and experimental basis for new teaching materials and methods with the goal of increasing the number of minorities underrepresented in mathematical and statistical sciences and related areas.

The SCU at Georgia Southern University also provides professional solutions to statistical problems by the application of practical experience to a wide range of areas and settings.

Extensive experience in high quality consulting is provided in the following areas:

- 1) Design of Experiments and Analysis of Studies
- 2) Survey Sampling/Design
- 3) Statistical Quality Control and Reliability
- 4) Nonparametric Modeling
- 5) Data Analysis and Reporting
- 6) Statistical Training Workshops

- 7) Categorical Data Analysis
- 8) Multivariate Data Analysis

### **3. Faculty of the Statistical Consulting Unit**

Charles W. Champ, Professor

Broderick O. Oluyede, Professor and Director

Patricia Humphrey, Associate Professor

Andrew Sills, Associate Professor

Anna Oganyan, Associate Professor

Arpita Chatterjee, Assistant Professor

Tharanga Wickramarachchi, Assistant Professor

Stephen Carden, Assistant Professor

### **4. Impact on and beyond the GSU**

There are several important ways SCU impacts the GSU, regional professional community and beyond: 1) as an intellectual stimulus, 2) as an interdisciplinary forum, and 3) as a resource to the GSU campus and broader academic community.

### **5. Computing Facility**

Statistical packages such as SPSS, Minitab, R and SAS are installed on Pentium machines. The unit also provides training and workshops on the use of standard statistical packages.

### **6. Unit Library**

The SCU maintain a small library of SAS/STAT User's Guides, SPSS Reference Guides, journals and periodicals in the areas of statistics, biostatistics and computing.

### **7. Consulting-by-appointment**

Consulting supports our teaching, graduate students, relationship with campus, the greater Statesboro community, Southeast Georgia and the outside world.

Services at the SCU are by appointment only. For consulting assistance please call (912) 478-5427 or send an electronic mail to: [boluyede@georgiasouthern.edu](mailto:boluyede@georgiasouthern.edu). Please bring a completed service request form, and any other information that is pertinent to your project to the initial session.

Email: [boluyede@georgiasouthern.edu](mailto:boluyede@georgiasouthern.edu)  
[cchamp@georgiasouthern.edu](mailto:cchamp@georgiasouthern.edu)

Telephone: (912) 478-5427                      Office: MP 3309

**Department of Mathematical Sciences  
Service Request Form**

**Office: MP 3309  
Phone: (912) 478-5427  
Email: [boluyede@georgiasouthern.edu](mailto:boluyede@georgiasouthern.edu)**

**Client Information**

Name: \_\_\_\_\_

Date: \_\_\_\_\_

\_\_\_\_ Faculty

Department: \_\_\_\_\_

\_\_\_\_ Staff

Phone Number: \_\_\_\_\_

\_\_\_\_ Student

\_\_\_\_ Other \_\_\_\_\_

**Brief Description of Research Project**

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**Stage of Design**

\_\_\_\_ Design. If design is completed, was a statistician consulted? Yes \_\_\_\_ No \_\_\_\_

\_\_\_\_ Analysis (Data collected)

**For Internal Use Only**

Reference Number: \_\_\_\_\_ Date: \_\_\_\_\_

Initial Visit: Yes \_\_\_\_ No \_\_\_\_ Assigned To: \_\_\_\_\_

Closed By: \_\_\_\_\_ Date Closed: \_\_\_\_\_

Unit Hour(s): \_\_\_\_\_ Total Hours: \_\_\_\_\_