

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

1. Introduction

The Statistical Consulting Unit consists of four 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, 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, Associate Professor

Patricia Humphrey, Associate Professor

Mavis Pararai, 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 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 681-0493 or send an electronic mail to: scu@georgiasouthern.edu. Please bring a completed service request form, and any other information that is pertinent to your project to the initial session.

Email: scu@georgiasouthern.edu

Telephone: (912) 681-0493

Office: MP 3024

Client Information

Name: _____ Date: _____

____ Faculty Department: _____

____ Staff Phone Number: _____

____ Student

____ Other _____

Brief Description of Research Project

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: _____