

# UNC Injury Prevention Research Center Biostatistics Core Unit

The UNC Injury Prevention Research Center (IPRC) Biostatistics Core Unit provides statistical and IT support services to:

- IPRC-affiliated staff, faculty, fellows, students
- UNC faculty, fellows, research staff
- Researchers from
  - Local universities and colleges
  - State departments of health
  - Community-based organizations

#### **Service Forums include:**

One-on-One Consultations  
Group Presentations  
Workshops  
Tutorials

Consultation services are available in English, Spanish, and Mandarin.

#### **The Biostatistics Core Unit supports the IPRC mission to:**

Build the field of injury prevention and control through a combination of interdisciplinary scholarly approaches to research, intervention and evaluation as well as through the training of the next generation of researchers and practitioners.

UNC IPRC is one of 12 national injury centers supported by the CDC.

## Services

The UNC IPRC Biostatistics Core Unit can provide multiple levels of service to meet the needs of each client.

The Unit **advises, assists, and conducts** the following statistical and IT functions:

### Statistical Services

1. Statistical Programming and Analysis, including expertise in:
  - Statistical applications software, such as SAS, SPSS, Stata, SUDAAN, nQuery
  - Epidemiological and evaluation research methods
2. Proposal Development, including:
  - Developing and reviewing methods sections
  - Performing power calculations
3. Database Management, including:
  - Processing data and managing data files
  - Developing database documentation
  - Providing advise on systems software
4. Manuscripts and Presentations, including:
  - Reviewing statistical analytic methods
  - Writing methods sections
5. Secondary Data, including:
  - Identifying and accessing data for secondary data analysis
  - Providing user support on a variety of injury databases

## IT Services

1. Database Archival and Data Retrieval, including:
  - Developing and implementing database storage and archival procedures
  - Providing user support for injury databases
2. Web-Based Data Dissemination and Collection, including:
  - Distributing reports and data via the web
  - Implementing dissemination for publicly-funded projects
  - Providing user support on the collection of information through web applications
3. Advanced Server Capabilities, including:
  - Modern and stable hardware
  - High-speed connectivity with ATN to address large and complex computing needs

### CONTACTING THE Biostatistics Core Unit

To request  
Statistical or IT Services,  
contact:

**José Miguel Sandoval**  
**Manager, Biostatistics Core Unit**  
Phone: 919-966-9477  
Email: [iprcbios@unc.edu](mailto:iprcbios@unc.edu)

## Faculty and Staff

### Faculty:



**Shrikant I. Bangdiwala, Ph.D.**  
*Faculty Leader, Biostatistics Core Unit  
Research Professor of Biostatistics*



**J. Michael Bowling, Ph.D.**  
*Research Assistant Professor of  
Health Behavior & Health  
Education and Biostatistics*



**Stephen W. Marshall, Ph.D.**  
*Assistant Professor of  
Epidemiology and Orthopedics*



**Carri Casteel, Ph.D.**  
*Adjunct Assistant Professor of  
Epidemiology*

### Research and Support Staff:



**José Miguel Sandoval, M.Phil.**  
*Manager, Biostatistics Core Unit*



**Guifeng Jin, M.S.**  
*Systems Programmer and Network  
Administrator, UNC IPRC*

### Graduate Research Assistants:

**Shankar Viswanathan, M.S.**  
*Doctoral Student in Biostatistics*

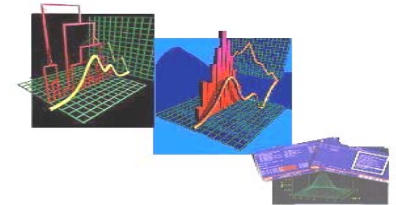
**Xiaoyan Amy Shi, M.S.**  
*Doctoral Student in Biostatistics*

We welcome inquiries from  
faculty, staff, and  
student researchers  
from all disciplines engaged at  
any phase of injury research.



**UNC**  
**INJURY PREVENTION  
RESEARCH CENTER**

## BIOSTATISTICS CORE UNIT Services



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