SUMMER INSTITUTE 2011

Workshops in Quantitative Research Methodology

Division of Biostatistics and Epidemiology
Medical University of South Carolina
Charleston, South Carolina
May 2-6, 2011
The 2011 Summer Institute in the Division of Biostatistics and Epidemiology (DBE) at the Medical University of South Carolina (MUSC) offers 2 two-day workshops that introduce current quantitative methods in key areas of biomedical and clinical research and offer hands on experience with implementing these methods. The targeted audience includes graduate students, residents, fellows, clinical researchers, biostatisticians, biomedical researchers and epidemiologists.

May 2nd-3rd Workshop:

► Bayesian Biostatistics

May 5th-6th Workshop:

► The Fundamentals of Randomized Clinical Trials
Workshop Information

Bayesian Biostatistics (May 2-3)

This course is intended to provide a basic introduction to the principles and use of Bayesian methods in biostatistics. Day 1 will be an introduction to Bayesian hierarchical modeling and to the use of Winbugs. Day 2 features hands on by the participant and will cover a series of topics and particular interest in biostatistics applications including longitudinal analysis, missing data methods, survival analysis and measurement error modeling.

Who Should Attend:
Those interested in extending their knowledge of statistics and modeling into hierarchical multi-level modeling using powerful Bayesian methodology.

Short Bios:

Mulugeta Gebregziabher is Assistant Professor of Biostatistics in the Division. He collaborates with clinicians at MUSC in several health related topics and teaches design of experiments and advanced regression methods in the graduate program. He has expertise in missing data and statistical methods for epidemiological studies and has published methodological papers in these topics.

Andrew B. Lawson is Professor of Biostatistics and has a wide experience of the development and application of Bayesian methods in Biostatistical problems. He has published a number of papers and books focused on Bayesian applications, in particular in spatial Biostatistics. He is co-author with Emmanuel Lesaffre (KU Leuven) of a new volume entitled Bayesian Biostatistics published by Wiley.
The Fundamentals of Randomized Clinical Trials (May 5-6)

This workshop provides an overview of key design, conduct and analysis aspects of randomized clinical trials, and hands-on experience with the latest developments. Topics will include appropriate outcomes selection, study designs, sample size estimation, randomization schemes and data monitoring. Attendees will learn the basic principles of the design and conduct of randomized clinical trials and will work together on real case studies that represent the true challenges that clinical and statistical investigators face when planning these trials.

Who Should Attend:
Clinical researchers, biostatisticians and students having an interest in clinical trial design and methodology.

Short Bios:
Valerie Durkalski is Associate Professor of Biostatistics and Director of The Data Coordination Unit (DCU), a statistical and data management center housed in the Division. The DCU specializes in the design of clinical trials and analysis of their data and in establishing, implementing and maintaining data and project management systems for multicenter clinical trials. Dr. Durkalski collaborates on several large multicenter clinical trials in various therapeutic areas, serves on several Data and Safety Monitoring Boards (DSMBs) and NIH peer-review panels. She publishes and presents on various topics related to the design and conduct of clinical trials and teaches ‘Design & Conduct of Clinical Trials’ to graduate students and healthcare professionals.

Renee Martin is Assistant Professor of Biostatistics and Associate Director of Biostatistics in the DCU. Her area of expertise includes design and analysis of clinical trials, with vast experience in Phase I - III therapeutic studies predominantly in neurology and stroke. Through her collaboration as a lead statistician on a number of clinical trials in the areas of ischemic and hemorrhagic stroke and other trials, Dr. Martin has extensive experience and knowledge on the design, implementation and analysis of clinical trials from an internal point of view. From an external view, Dr. Martin has served as an independent statistician for industry sponsored trials and she currently serves on the DSMB for an international, randomized Phase III, NINDS sponsored trial. The combination of her advanced biostatistical training and management skills provides a solid resource for the planning, oversight and implementation of clinical trials.
VENUE
The courses will take place on the campus of the Medical University of South Carolina, Division of Biostatistics & Epidemiology, Room 301, 135 Cannon Street, Charleston, South Carolina.

Recommended Area Accommodations:

<table>
<thead>
<tr>
<th>Hotel</th>
<th>Area/Accommodation</th>
<th>Address</th>
<th>Phone Numbers</th>
<th>Website</th>
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<tbody>
<tr>
<td>Charleston Marriott Hotel</td>
<td>The Courtyard by Marriott</td>
<td>170 Lockwood Boulevard</td>
<td>(843)723-3000/(800)968-3569</td>
<td><a href="http://www.marriott.com/chsmc">www.marriott.com/chsmc</a></td>
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<tr>
<td></td>
<td>Charleston Historic District</td>
<td>125 Calhoun Street</td>
<td>(843)805-7900</td>
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<tr>
<td>Comfort Inn</td>
<td>The Courtyard by Marriott</td>
<td>144 Bee Street</td>
<td>(843)577-2224</td>
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<tr>
<td></td>
<td>Charleston Historic District</td>
<td>35 Lockwood Drive</td>
<td>(843)722-7229</td>
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Additional information on Charleston and area hotel accommodations may be found at [www.charlestoncvb.com](http://www.charlestoncvb.com). Download a campus map at [www.musc.edu](http://www.musc.edu).

Daily Schedule:

- 8:00 - 8:30am: Coffee/Registration
- 8:30 - 10:00 am: Workshop Session
- 10:00 - 10:30 am: Break
- 10:30 - 12:00 pm: Workshop Session
- 12:00 - 1:00 pm: Lunch (provided)
- 1:00 - 3:00 pm: Workshop Session
- 3:00 - 3:30 pm: Break
- 3:30 - 5:00 pm: Workshop Session (Day 2 will end at 4pm)
### Registration Form:

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<tr>
<td>O Student</td>
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Registration Fee: $400 per Workshop ($300 for students & MUSC faculty)

$700 for Two Workshops ($600 for students & MUSC faculty)

- Bayesian Biostatistics (May 2-3)
- Fundamentals of Randomized Clinical Trials (May 5-6)

**Total Amount:** $_________

Payment can be made by phone, fax, e-mail or mail. Contact information is on the top left corner of this page. Registration fees are payable in U.S. dollars only. Personal checks are acceptable if payable through a U.S. bank.

**Payment Method:**
- o IIT (MUSC internal registrations only)
- o Check (make payable to MUSC, Division of Biostatistics and Epidemiology)
- o Visa  o Mastercard

Card #: ________________________ Exp Date: __________

Name on Card: __________________________________

Authorized Signature: __________________________

If you will require special accommodations, please specify:

__________________________________________________________________________