

SCIENTIFIC PROGRAM

The Third Erich L. Lehmann Symposium

May 16 - 19, 2007

Rice University

Symposium Chair and Organizer

Javier Rojo

Statistics Department, MS-138

Rice University

6100 Main Street

Houston, TX 77005

Plenary Speakers

Erich L. Lehmann

University of California, Berkeley

Some history of optimality

Lawrence D. Brown

The Wharton School
University of Pennsylvania

*A unified view of regression, shrinkage, empirical
Bayes, hierarchical Bayes, and random effects*

James O. Berger

Duke University

*Some recent developments in Bayesian model
selection*

Rodrigo Bañuelos

Purdue University

Isoperimetric bounds for Lévy processes

Peter J. Bickel

University of California, Berkeley

The collapse of particle filters

Stephen M. Stigler

University of Chicago

Karl Pearson and testing statistical hypotheses

Peter J. Huber

On the non-optimality of optimal procedures

Willem R. van Zwet

University of Leiden

*Statistics and the law: the case of the nonchalant
nurse*

Invited Session Scientific Committee

Javier Rojo, Chair	Rice University
Jane Ling Wang	University of California, Davis
Rudy Guerra	Rice University
Juliet P. Shaffer	University of California, Berkeley
Wei-Yin Loh	University of Wisconsin, Madison
Peter J. Bickel	University of California, Berkeley
Kjell Doksum	University of Wisconsin, Madison
Yongzhao Shao	New York University
Demissie Alemayehu	Pfizer and Columbia University
James O. Berger	Duke University and SAMSI

Invited Sessions

Young Investigators

Javier Rojo, Organizer
Yolanda Muñoz Maldonado, Chair

Brisa N. Sánchez *Residual-based diagnostics for structural equation models*
University of Michigan

Yolanda Muñoz Maldonado *Penalized least squares and frequentist and bayesian mixed-effects models*
UT Health Sc Center Houston

Farinaz Koushanfar *How challenging is the data set?*
Rice University

Statistical Problems in the Analysis of Genomic and Magnetic Resonance Imaging Data

Wei-Yin Loh, Chair

Sunduz Keles *Statistical issues arising in the study of transcription regulation*
University of Wisconsin, Madison

Shaw-Hwa Lo *A method toward mapping of common traits*
Columbia University

Young K. Truong
UNC, Chapel Hill

Spatio-temporal modeling for fMRI data

Optimality in Bioinformatics: Theory vs Practice

Rudy Guerra, Chair

David Dahl
Texas A&M University

Simultaneous inference for multiple testing and clustering via Dirichlet process mixture models

Chad Shaw
Baylor College of Medicine

Using annotations in the analysis of genome scale data

Rudy Guerra
Rice University

Incorporating biological knowledge in gene expression analysis

Regularized Methods of Classification and Estimation of Nonparametric Regression and Covariance Matrices When Data is High Dimensional

Peter J. Bickel, Chair

Wei-Yin Loh
University of Wisconsin

Regression and variable selection in large p , small n problems

Debashis Paul
University of California, Davis

Principal component analysis for structured high-dimensional data

Ya'acov Ritov
Hebrew University

Consistent learning methods are approximately local

Probability, Levy Process, and Applications

Javier Rojo, Organizer
Rodrigo Bañuelos, Chair

Dennis Cox
Rice University

Multiscale models for chemical reaction processes

Davar Khoshnevisan
University of Utah

On some applications of stable processes

José Enrique Figueroa
Purdue University

Non-parametric estimation for some models driven by Levy processes

Multiplicity: Developments and Current Issues

Juliet P. Shaffer, Chair

Charles Lewis
Fordham University

*Bayesian decision theory for multiple
comparisons*

Helmut Finner
Deutsches Diabetes-Zentrum

Testing for equivalence in k sample models

Ajit C. Tamhane
Northwestern University

*A mixture model approach to estimating the
number of true null hypotheses and adaptive
control of FDR*

Recent Advances in Non- and Semi-parametric Modeling

Jane-Ling Wang, Chair

Kjell Doksum
University of Wisconsin

*Semi-parametric models based on transformations
and extremes*

Xihong Lin
Harvard University

*Statistical challenges in analyzing mass
spectrometry proteomic data*

Naisyin Wang
Texas A&M University

*Analysis of hierarchical biomedical data using
semiparametric models*

Statistical Inference for Population Substructures via Clustering, Mixture Models and Other Approaches

Demissie Alemayehu, Yongzhao Shao, Organizers
Yongzhao Shao, Chair

Bruce G. Lindsay
Pennsylvania State University

*Modal inference: halfway between clustering and
mixture analyses*

Yuewu Xu
Fordham University

*A limit theory for likelihood ratio test under
unidentifiability for general dependent processes*

Yongzhao Shao
New York University

*Recent developments in likelihood theory with
applications to testing homogeneity in finite
mixture models and other models*

Monnie McGee, Southern Methodist University, *A Distribution Free Summarization Method for Affymetrix GeneChip® Arrays*

Changxiang Rui, University of Arkansas, *Point and Block Prediction in Log-Gaussian random Fields: The Non-constant Mean Case*

Qiang Zhao, Texas State University, San Marcos, *Survival Analysis of Microarray Gene Expression Data Using Correlation Principal Component Regression*

Suhasini Subba Rao, Texas A&M University, *Normalised Least-squares estimation in time-varying arch models*

Santanu Chakraborty, UT Pan-American, *Parametric Inference on Zero-Inflated Poisson distribution and its variants*

Hongxiao Zhu, Rice University, *A Functional Generalized Linear Model with application to Cervical Pre-cancer Diagnosis using Fluorescence spectroscopy*

Xiaowei Wu, Rice University, *Some Estimation and Hypothesis Testing Problems in Fluctuation Analysis*

John Fresen, University of Missouri - Columbia, *On the Definition of Weak Convergence of a Sequence of Random Elements*

Victor De Oliveira, UT San Antonio, *Objective Bayesian Analysis of Spatial Data with Measurement Error*

Pang Du, Virginia Tech, *Smoothing spline frailty model*

Graciela Gonzalez, CIMAT, *Some important issues in inference under certain types of singularities*