

## *Sarah Baraniuk*

1200 Herman Pressler  
Suite E835  
Houston, Texas  
77030  
Email: mbaraniuk@uth.tmc.edu  
Phone: 713-500-9512  
Fax: 713-500-9530

---

### **EDUCATION**

University of Texas-Houston Health Sciences Center School of Public Health  
Houston, Texas

*PhD in Biometry*, December 2001

Minors: Epidemiology and Health Economics

Dissertation: *Analysis of Multivariate Exact and Interval-Censored Time Data*

Advisor: Barry Davis, MD, PhD

Texas Tech University

Lubbock, Texas

*MS in Mathematics*, May 1997

Master's Thesis: *The Origins of Linkage Analysis*

Advisor: Clyde F. Martin, PhD

Mount Saint Vincent University

Halifax, Nova Scotia, Canada

*BS in Mathematics*, May 1995

Minor: Biology

Advisor: Hui Li, PhD

University of South Carolina

Columbia, South Carolina

Freshman year of BS in Biology, 1991

## PROFESSIONAL EXPERIENCE

06/03-  
Present      *Assistant Professor of Biostatistics*  
Coordinating Center for Clinical Trials  
University of Texas-Houston Health Sciences Center School of Public Health

12/01-  
12/02      *Postdoctoral Fellow*  
Unite 472 Epidémiologie et Biostatistique  
INSERM (Institut National de la Santé et de la Recherche Médicale)

With Dr. Michel Chavance, INSERM Director of Research, investigated missing data problems using multiple imputations and the Cox Proportional Hazards model.

01/00-  
06/01      *Faculty Instructor and Coordinator of Evaluation*  
Center for Nursing Research, School of Nursing  
University of Texas Health Sciences Center-Houston

Coordinated the evaluation of SON faculty, students, courses, administrators, and programs and provided statistical consultation to faculty and students, including preparation of manuscripts and grant proposals. Responsible for teaching the lab section of the graduate level Statistics course (N5506).

08/99-  
05/00      *Teaching Assistant*  
School of Public Health, University of Texas Health Sciences Center-Houston

Responsibilities for Logistic Regression course (PH1830) included grading homework assignments and exams and holding regular office hours. Survival Analysis course (PH1831) with the same duties.

11/97-  
12/99      *Graduate Research Assistant*  
Center for Nursing Research, School of Nursing  
University of Texas Health Sciences Center-Houston

Analysis and entry of research data and literature searches for various SON faculty. Coordinated faculty and course evaluations.

8/95-  
5-97      *Teaching Assistant*  
Department of Mathematics, Texas Tech University

Responsible for preparing weekly lectures, homework assignments, exams and grading assignments for two classes of Business Mathematics and Business Calculus.

1/93-  
5/95      *Statistics Laboratory Assistant, Mathematics Tutor*  
Department of Mathematics and Computer Science  
Mount Saint Vincent University, Halifax, Nova Scotia

Responsible for conducting four-hour weekly lab sessions, grading labs, and holding regular office hours for Business Statistics, Finite Mathematics, and College Algebra courses.

5/94-  
9/94

*Research Assistant*  
Mount Saint Vincent University  
National Science and Engineering Research Council Summer Program

Queuing theory research with Dr. Hui Li on the analytic solution for the mean value of the M/M/1-Retrial queue.

## **HONORS, GRANTS, PROFESSIONAL OFFICES**

2003-present Co-investigator in SPOTRIAS (Specialized Program of Translational Research in Acute Stroke)  
2001-2002 INSERM Postdoctoral Fellowship  
2001-2002 President, Houston Area Chapter of the American Statistical Society  
1996-1997 Graduate Scholarship, Texas Tech University Mathematics Department  
1994 National Science and Engineering Research Council of Canada Summer Research Grant  
1991 Nova Scotia Teacher's Union Bursary

## **COMPUTER SKILLS**

S-Plus, SAS, STATA, Matlab.

## **ORGANIZATIONS**

1998-Present American Statistical Association  
1998-Present Houston Area Chapter of the American Statistical Society  
President elect (2000-2001)  
President (2001-2002)  
2004-Present The International Biometric Society Eastern North American Region (ENAR)

## **SERVICE**

Reviewer for the National Institute of Neurological Disorders and Stroke, Neurological Sciences and Disorders K Initial Review Group (NINDS-NSD-K).

Review Panel member for the World Trade Center Consortium RFA, NIOSH/CDC

Chair of the Nonparametric Statistics with Censored Data section at the Joint Statistical Meeting (JSM), Seattle, August 2006.

Reviewer for *Advances and Applications in Statistics*

Reviewer for *Journal of the National Medical Association*

Reviewer for *Journal of Statistical Planning and Inference*

Reviewer for *Behavioral Brain Research*

## **PUBLICATIONS**

“Dependence, Hyper-dependence and Hypothesis Testing in Clinical Trials,” L. Moye and S. Baraniuk. In Press: *Contemporary Clinical Trials*.

“Effectiveness of constraint-induced movement therapy in early stroke rehabilitation”. C. Boake, Ph.D., E. A. Noser, M.D., T. Ro, Ph.D., S. Baraniuk, Ph.D, M. Gaber, OTR, E. T. Salmeron, M.D., T. M. Tran, M.D., J. M. Lai, M.D., E. Taub, Ph.D., L. A. Moye, Ph.D., H. S. Levin, Ph.D., J. C. Grotta, M.D. In press: *Neurorehabilitation and Neural Repair*.

“Risk Factors for Developing Encephalitis from West Nile Virus Infection.” K. Lillibridge, S. Baraniuk, M. Resnic, R. Arafat, C. Kilborn, R., K. Cain, Shallenberger, T.L. York, D. Martinez, J. Hellums, D. Hellums, M. Malkoff, N. Elgawley, W. McNeely, S. A. Khuwaja, R. Tesh. In Press: *Epidemiology and Infection*.

“Myocardial Injury in Patients with Intracerebral Hemorrhage Treated with Recombinant Factor VIIa.” R. M. Sugg, N. R. Gonzale, D. E. Matherne, M. Ribo, H. M. Shaltoni, S. Baraniuk, E. A. Noser, J. C. Grotta, M.D. *Neurology*. 26;67(6): 1053-1055, September 2006

“Tpa ARgatroban sTroke Study (TARTS): Study Design and Results in the First Treated Cohort.” R. M. Sugg MD, J. K. Pary MD, H. M Shaltoni, MD, S. Baraniuk, N. R Gonzales, MD, Z. Garami MD, S. G. Shaw RN BSN, D. E. Matherne, MSN FNP, L. A. Moye PhD A. V. Alexandrov, MD, and J. C. Grotta, MD. *Archives of Neurology*, 63(8):1057-1062, August 2006.

Perceptions of Employees About the Safety Climate at a Psychiatric Hospital,” K. Calabro and S. Baraniuk. *Journal of the American Association of Occupational Health Nurses*, Vol. 51, No. 10 October 2003.

## **BOOK CHAPTERS**

Definitive Clinical Trials: Phase III and IV, B.R. Davis and S. Baraniuk. In Press: *The Handbook of Statistics*.

## **IN PREPARATION**

“Competing Risk Model for Myocardial infarctions in the SHEP (Systolic Hypertension in the Elderly Program) Trial,” S. Baraniuk, B. Davis, and C. Jones. In preparation for *Journal of Biopharmaceutical Statistics*, 2006.

“Clinical Investigation of Hospitalized West Nile Virus-positive Cases and Developing Encephalitis: Houston, Texas” K. Lillibridge, S. Baraniuk, R.

Arafat, C. Kilborn, R. Shallenberger, D. Martinez, W. McNeely, J. Hellums, D. Hellums, N. Elgawley, K. Cain, R. Langer, M. Malkoff, R. Tesh. In preparation for *Epidemiology and Infection*, 2006.

“Program for a piecewise exponential baseline hazard model for the analysis of Multivariate Exact and Interval-Censored Time Data,” S. Baraniuk, B. Davis, and C. Jones. In preparation for *Computational Statistics*, 2006.

“Guidelines for the Dependency Parameter in Multiple Dependent Analyses” S. Baraniuk and L. Moye. In preparation for *Statistics in Medicine*, 2006.

“Incomplete Continuous Covariates in the Cox Proportional Hazard Model,” S. Baraniuk, M. Chavance. In preparation for the *Journal of the American Statistical Association*, 2006.

“Effect of Paclitaxel-based Chemotherapy on the Ovarian Failure of Breast Cancer Patients: A Retrospective Study,” N. K. Ibrahim, S. Baraniuk, J. Headley, K. Terrell-Bisotooni, A. Buzdar, G. Hortobagyi. In preparation for the *Journal of Clinical Oncology*, 2006.

## **PRESENTATIONS**

*Identifying Risk Factors for Encephalitis from West Nile Virus Infection using Scan Statistics*, Joint Statistical Meeting, Seattle. August 2006

*Hyperdependency in Multiple Dependent Analyses*, Joint Statistical Meeting, Minneapolis. August 2005.

*Analysis Strategies for Multiple Outcome Measures*, Joint Statistical Meeting, Toronto. August 2004.

*Incomplete Data in the Cox Proportional Hazard Model*, Joint Statistical Meeting, San Francisco. August 2003.

*Incomplete Continuous Covariates in the Cox Proportional Hazard Model*, INSERM, Paris. December 2002.

*Analysis of Multivariate Exact and Interval-Censored Time Data*, INSERM, Paris. January 2002.