

# Curriculum Vitae

Jonathan S. Schildcrout, Ph.D.

## Contact Information

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## Education

B.S. 1994, Indiana University, Bloomington, Indiana (Mathematics)

M.S. 1996, University of North Carolina, Chapel Hill, North Carolina (Biostatistics)

Ph.D 2004, University of Washington, Seattle, Washington (Biostatistics)

## Positions

2004– Assistant Professor, Department of Biostatistics, Vanderbilt University Medical Center

1998–2004 Graduate Research Assistant, Department of Biostatistics, University of Washington

1996–1998 Clinical Trials Statistician, Duke Clinical Research Institute

1995–1996 Graduate Research Assistant, Department of Biostatistics, University of North Carolina

2003– Professor of Biostatistics and Chair, Department of

## Teaching

2004 Graduate Teaching Assistant, University of Washington, Department of Biostatistics, *Categorical Data Analysis in Epidemiology*

2002 Graduate Teaching Assistant, University of Washington, Department of Biostatistics, *Classical Theory of Linear Models*

1995 Graduate Teaching Assistant, University of North Carolina, Department of Biostatistics, *Basic Elements of Probability and Statistical Inference*

- 1993, 1994 Undergraduate Teaching Assistant, Indiana University, Department of Mathematics, *Brief Survey of Calculus*
- 1992 Undergraduate Teaching Assistant, Indiana University, Department of Mathematics, *Basic Algebra*

### **Awards**

- 2002–2004 NIH Cardiovascular Training Grant, University of Washington, Department of Biostatistics
- 1994–1996 NICHD Demography Training Grant, University of North Carolina, Department of Biostatistics.

### **Referee**

- 2002– Australian and New Zealand Journal of Statistics, Biometrics, Computational Methods in Biomedical Research, Computational Statistics, Journal of Applied Statistics, Journal of Occupational and Environmental Health, Methods of Information in Medicine, METRON - International Journal of Statistics, Statistics in Medicine, Statistical Methods in Medical Research.

### **Session Organizer / Chair**

- May 2007 Session Organizer and Chair, Data Mining Tools and Resources, Midwest Biopharmaceutical Statistics Workshop, Muncie, Indiana.
- August 2006 Session Chair, Analysis of Correlated Data and Mixed Models, Joint Statistical Meetings, Seattle, Washington.

### **Professional Memberships**

- 2004–present International Biometric Society, East North American Region
- 2002–present American Statistical Association
- 2002–2004 International Biometric Society, West North American Region

### **Service**

#### **Professional**

Treasurer, Middle Tennessee Chapter of the American Statistical Association, 2005–2006

President, Middle Tennessee Chapter of the American Statistical Association, 2006–present

#### **Vanderbilt / Departmental**

Organizer, Biostatistics Seminar Series, 2005–present

Chair, Curriculum Vitae and Biosketch Standardization Committee, 2005–present

Member, Faculty Search Committee, 2005–present

Member, MS Staff Search Committee, 2005–present

Member, MS Time Allocation Committee, 2005–2007

## Community

Volunteer: Stray dog foster home, 2006–present

## Data Safety and Monitoring Committee

2005–2006          Modifying the Incidence of Delirium (MIND) study (Wes Ely, P.I.)

## Peer Reviewed Publications

- [1] B A Fetterman, B S Kim, B H Margolin, J S Schildcrout, M G Smith, S M Wagner, and E Zeiger. Predicting rodent carcinogenicity from mutagenic potency measured in the Ames Salmonella assay. *Environ Mol Mutagen*, 29(3):312–322, 1997.
- [2] J S Schildcrout, B H Margolin, and E Zeiger. Predicting rodent carcinogenicity using potency measures of the in vitro sister chromatid exchange and chromosome aberration assays. *Environ Mol Mutagen*, 33(1):59–64, 1999.
- [3] J M Miller, R Smalling, E M Ohman, C Bode, A Betriu, N S Kleiman, J S Schildcrout, E Bastos, E J Topol, and R M Califf. Effectiveness of early coronary angioplasty and abciximab for failed thrombolysis (reteplase or alteplase) during acute myocardial infarction (results from the GUSTO-III trial). Global Use of Strategies To Open occluded coronary arteries. *Am J Cardiol*, 84(7):779–784, Oct 1999. Clinical Trial.
- [4] Christopher H Goss, Stacey A Newsom, Jonathan S Schildcrout, Lianne Sheppard, and Joel D Kaufman. Effect of ambient air pollution on pulmonary exacerbations and lung function in cystic fibrosis. *Am J Respir Crit Care Med*, 169(7):816–821, Apr 2004.
- [5] Lianne Sheppard, James C Slaughter, Jonathan Schildcrout, L-J Sally Liu, and Thomas Lumley. Exposure and measurement contributions to estimates of acute air pollution effects. *J Expo Anal Environ Epidemiol*, 15(4):366–376, Jul 2005.
- [6] Joshua C Denny, Anderson 3rd Spickard, Randolph A Miller, Jonathan Schildcrout, Dawood Darbar, S Trent Rosenbloom, and Josh F Peterson. Identifying UMLS concepts from ECG Impressions using KnowledgeMap. *AMIA Annu Symp Proc*, pages 196–200, 2005.
- [7] Jonathan W Kanter, Jonathan S Schildcrout, and Robert J Kohlenberg. In vivo processes in cognitive therapy for depression: Frequency and benefits. *Psychotherapy Research*, 15(4):366–373, 2005.
- [8] Jonathan S Schildcrout and Patrick J Heagerty. Regression analysis of longitudinal binary data with time-dependent environmental covariates: bias and efficiency. *Biostatistics*, 6(4):633–652, Oct 2005.

- [9] Carol A Trenga, Jeffrey H Sullivan, Jonathan S Schildcrout, Kristen P Shepherd, Gail G Shapiro, L-J Sally Liu, Joel D Kaufman, and Jane Q Koenig. Effect of particulate air pollution on lung function in adult and pediatric subjects in a Seattle panel study. *Chest*, 129(6):1614–1622, Jun 2006.
- [10] Jonathan S Schildcrout, Lianne Sheppard, Thomas Lumley, James C Slaughter, Jane Q Koenig, and Gail G Shapiro. Ambient air pollution and asthma exacerbations in children: an eight-city analysis. *Am J Epidemiol*, 164(6):505–517, Sep 2006.
- [11] Jonathan S Schildcrout and Patrick J Heagerty. Marginalized Models for Moderate to Long Series of Longitudinal Binary Response Data. *Biometrics*, 63(2):322–331, June 2007.
- [12] Fern Fitzhenry, Josh P Peterson, Mark Arrieta, Lemuel R Waitman, Jonathan S Schildcrout, and Miller Randolph M. Medication administration discrepancies persist despite electronic ordering. *Journal of the Medical Informatics association*, 14(6):756–764, 2007.
- [13] Jonathan S Schildcrout, Cathy A Jenkins, Jack H Ostroff, Daniel L Gillen, Frank E Jr. Harrell, and Donald C Trost. Analysis of longitudinal laboratory data in the presence of common selection mechanisms: A view toward greater emphasis on pre-marketing pharmaceutical safety. *Statistics in Medicine*, Online Early View, DOI:10.1002/sim.3071, 2008.
- [14] Jonathan S Schildcrout and Patrick J Heagerty. On outcome dependent sampling designs for longitudinal binary response data with time-varying covariates. *Biostatistics*, Accepted.

## Contributed and Invited Presentations

1. Schildcrout JS, Statistical considerations in the practice of law, The Henry Phillips Chapter of the American Inns of Court Meeting, Nashville, TN, January 2008 (Invited).
2. Schildcrout JS, Ostroff J, Jenkins CA, Harrell FEH, Trost DC, Analysis of Longitudinal Clinical Lab Data with Latent Mixture Models, Biopharmaceutical Applied Statistics Symposium, Savannah, GA, November 2007 (Invited).
3. Schildcrout JS, Analysis of Longitudinal Clinical Lab Data with Latent Mixture Models, The International Conference on Industrial and Applied Mathematics, Zurich, Switerland, July 2007 (Invited).
4. Schildcrout JS, Heagerty PJ, Marginalized Model Estimation under a Biased Sampling Study Design, presented at the East North American Region of the International Biometric Society, Atlanta, GA, March 2007 (Invited).
5. Schildcrout JS, Heagerty PJ, An Efficient Outcome-Dependent Sampling for Longitudinal Binary Response Data, presented at the Joint Statistical Meetings, Seattle, WA, August 2006 (contributed).
6. Schildcrout JS, Flexible Regression Modeling of Longitudinal Clinical Lab Data, presented at Pfizer Inc., Groton, CT, July 2006 (invited).
7. Schildcrout JS, Dynamic Regression Models towards Early Detection of Drug Toxicity, Presented at the Midwest Biopharmaceutical Statistics Workshop, Muncie, IN, May 2006 (invited).

8. Schildcrout JS, Marginalized Regression Models for Long Series of Binary Response Data, Presented at the East North American Region of the International Biometrics Society, Austin, TX, March 2005 (contributed).
9. Schildcrout JS, Regression Analysis of Longitudinal Binary Outcomes with Environmental Covariates: Bias and Efficiency, Presented at the Middle Tennessee Chapter of the American Statistical Association, October 2004 (invited).
10. Schildcrout JS, Heagerty PJ, Outcome Dependent Sampling with Longitudinal Binary Response Data, presented at the West North American Region of the International Biometrics Society, June 2004 (contributed).
11. Schildcrout JS, Heagerty PJ. Marginalized regression models for categorical data with both serial and long-range dependence. Presented at the Joint Statistical Meetings, August 2003 (contributed).
12. Lumley T, Schildcrout JS, Liu L, Larson T. Spatial and temporal variation in fine particulate concentrations in Seattle. Poster at the annual meeting of the International Society for Environmental Epidemiology, August 2002 (contributed).
13. Schildcrout JS, Heagerty PJ, Lumley T, Sheppard L, Serial and long range correlation in a panel study with binary response data: detection and impact on regression analysis. Presented at the East North American Region of the International Biometrics Society Meeting, March 2002 (contributed).
14. Kurland BF, Heagerty PJ, Schildcrout JS. Bias in marginal regression models for longitudinal binary data with missing values. Presented at the Joint Statistical Meetings, August 2001 (contributed).
15. Miller JM, Moliterno D, Schildcrout JS, Karnash SL, Hochman JS, Ohman EM, Califf RM. Hormone Replacement Therapy Among Post-Menopausal Women with Acute Myocardial Infarction: Insights from GUSTO-III. Presented at the 47th Annual Scientific Session of the American College of Cardiology, 1998 (contributed).
16. Ohman EM, Lincoff AM, Bode C, Bachinsky WB, Ardissino D, Matteo PS, Betriu A, Schildcrout JS, Oliverio R, Barnathan E, Sherer J, Sketch MH, Topol EJ. Enhanced early reperfusion at 60 minutes with low-dose reteplase combined with full-dose abciximab in acute myocardial infarction preliminary results from the GUSTO-4 pilot (SPEED) dose ranging trial. Presented at the 71th scientific sessions of the American Heart Association, 1998 (contributed).
17. Janning C, Newark N, Moffie I, Gibler B, Schildcrout JS, Ohman EM. Can bolus reteplase therapy enhance time to thrombolysis? Observations from the GUSTO-3 nursing substudy. Presented at the 70th scientific sessions of the American Heart Association, 1997 (contributed).
18. White HD, Anderson, RD, Weaver, WD, Armstrong PW, Iparraguirre HP, Wagner GS, Schildcrout JS, Gates K, Califf RM. Resolution of ST-segment elevation with reteplase vs alteplase: Results from the GUSTO-III ECG substudy. Presented at the 70th scientific sessions of the American Heart Association, 1997 (contributed).

April 25, 2008