

CURRICULUM VITAE

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EDUCATION

1994 BS in Mathematics, Indiana University, Bloomington, Indiana.

1996 MS in Biostatistics, University of North Carolina, Chapel Hill, North Carolina.

2004 PhD in Biostatistics, University of Washington, Seattle, Washington.

ACADEMIC APPOINTMENTS

2019– Vice Chair of Research, Department of Biostatistics, Vanderbilt University School of Medicine.

2017– Professor, Department of Biostatistics, Vanderbilt University School of Medicine.

2011–2017 Associate Professor (with Tenure), Department of Biostatistics, Vanderbilt University School of Medicine.

2011–2016 Associate Professor, Department of Anesthesiology, Vanderbilt University School of Medicine.

2009–2011 Assistant Professor, Department of Anesthesiology, Vanderbilt University School of Medicine.

2004–2011 Assistant Professor, Department of Biostatistics, Vanderbilt University School of Medicine.

AWARDS AND HONORS

2019 Fellow, American Statistical Association

2018 Golden Apple Award for Excellence in Teaching, Vanderbilt University, Department of Biostatistics.

2016 Methods Publication Award (best methods paper of 2015), Vanderbilt University, Department of Biostatistics.

2015 Golden Apple Award for Excellence in Teaching, Vanderbilt University, Department of Biostatistics.

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.

EMPLOYMENT

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

PROFESSIONAL ORGANIZATIONS

2015–	Society for Epidemiologic Research
2014–	Society for Medical Decision Making
2004–	International Biometric Society, East North American Region
2002–	American Statistical Association
2002–2004	International Biometric Society, West North American Region

PROFESSIONAL ACTIVITIES

Vanderbilt University and Vanderbilt University Medical Center

Faculty Senate	Chair, Senate Affairs Committee, Faculty Senate, Vanderbilt University (2017–2018) Faculty Senate Member, Vanderbilt University (2015–2018) Senate Affairs Committee, Faculty Senate, Vanderbilt University (2015–2018)
DSMB	Inflammation and Insulin Resistance in Rheumatoid Arthritis (C. Michael Stein, P.I.) (2009–2012) Modifying the Incidence of Delirium (MIND) study (Wes Ely, P.I.) (2005–2006)
Reviewer	Vanderbilt Edge for Scholars Study Section (1/2012, 9/2012, 5/2014, 9/2015, 9/2016, 1/2017, 5/2017, 9/2017, 1/2018, 1/2019, 1/2020) Topping off Award Review Committee, Vanderbilt University (2015) Vanderbilt Clinical and Translational Research Scholar Program (VCTRS) / Vanderbilt Physician Scientist Development Program (VPSD) selection committee (2012)
Committees	Clinical Research Committee, Department of Anesthesiology (2009–2014) Research Executive Committee, Department of Anesthesiology (2009–2014)

Biostatistics Department at Vanderbilt University

Committees	Faculty Search Committee, Chair (2018-) Senior Executive Committee, Member (2018-) Applied PhD Comprehensive Exam Committee, Chair (2013–2018) Faculty Affairs Promotion Committee, Member (2010–) Graduate Admissions Committee, Member (2010–2015) Graduate Program Committee, Member (2009–) Faculty Search Committee, Member (2005–) MS Staff Search Committee, Member (2005–2012) Biostatistics Seminar Series, Organizer (2005–2007) MS Time Allocation Committee, Member (2005–2007)
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Extramural

Editorial	Associate Editor, Journal of the Royal Statistical Society - C (2015–2018) Associate Editor, Biometrics (2016–) Statistical reviewer, Anesthesia and Analgesia (2016–2017)
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Leadership	Treasurer/secretary, Biometrics Section, American Statistical Association (2015–2016). Program Chair, Biometrics Section, Joint Statistical Meetings (Aug 2014). Program Co-Chair, ENAR Annual Conference (April 2012). President, Middle Tennessee Chapter, American Statistical Association (2006–2008) Treasurer, Middle Tennessee Chapter, American Statistical Association (2005–2006)
Advisory Panel	American Chemistry Council Working Group on Biomarker Research, organized by NICHD/NIH (2010–2011) American Chemistry Council Working Group on Study Designs for Longitudinal Data, organized by NICHD/NIH (2015–2016)
Study Section	Biostatistical Methods and Research Design (BMRD) ad hoc reviewer (Feb 2016, June 2016, June 2019, October 2019) Marsden Fund (July 2019) NIDDK Special Emphasis Panel to review Type 1 diabetes applications (March 2012; PAR 11-349)
Ad hoc referee	American Journal of Epidemiology (2008-2010, 2014, 2017, 2020-2021) , American Journal of Respiratory and Critical Care Medicine (2012-2015), Anaesthesia (2014), Anesthesia and Analgesia (2012-2013, 2016), Annals of Epidemiology (2014), Australian and New Zealand Journal of Statistics (2006, 2014, 2019), Biometrics (2006, 2009-2012, 2015-2021), Biostatistics (2008, 2010), BMC Medical Research Methodology (2014-2015, 2019), Canadian Journal of Statistics (2013-2014), Communications in Statistics: Theory and Methods (2018), Computational Methods in Biomedical Research (2006), Computa- tional Statistics (2007), Computational Statistics and Data Analyses (2013), Drug Safety (2016), Environmental Health Perspectives (2008), Epidemiology (2009, 2015, 2016, 2018, 2020), Epidemiological Methods (2016), International Journal of Medical Informatics (2018, 2019), Journal of the American Statistical Association (2009-2010, 2012), Journal of Applied Statistics (2007, 2015-2016), Journal of Clinical Epidemiology (2017-2018), Journal of Occupational and Environmental Health (2005), Journal of the Royal Statisti- cal Society - Series A (2013), Journal of the Royal Statistical Society - Series B (2012), Journal of the Royal Statistical Society - Series C (2009, 2012, 2015-2018), Journal of Statistical Computation and Simulation (2015-2016), Methods in Ecology and Evolution (2015-2016), Methods of Information in Medicine (2007-2008), METRON - International Journal of Statistics (2008), Nature Energy (2019-2020), Pediatrics (2009), PLOS One (2015-2016, 2019), Sage Open (2021), Scandinavian Journal of Statistics (2012), Statistics in Medicine (2005-2019), Statistical Methods in Medical Research (2007)
Conferences	Session Organizer and Chair, Planned and Unplanned Presence in Observations Studies: Designs and Analyses. London UK (December 2020). Session Organizer and Chair, Highly Efficient Study Designs and Valid Analyses for Re- source Constrained Studies, East North American Region of the International Biometrics Society Annual Conference. Nashville, TN (March 2020). Session Organizer, Two phase designs for correlated data, Conference of ERCIM WG on Computational and Methodological Statistics, London UK (December 2019). Session Organizer, Resource Efficient Study Designs for Observational and Correlated Data, East North American Region of the International Biometrics Society Annual Con- ference. Philadelphia, PA (March 2019). Roundtable Organizer, Recent Advances in Joint Models for Longitudinal and Time-to- Event Data by Dimitris Rizopoulos, Montreal, Canada. (August 2013) Session Organizer and Chair, Biased Epidemiological Study Designs, Joint Statistical Meetings, Montreal, Canada. (August 2013) Session Organizer and Chair, Beyond the Case-Control Study: Efficient (and under- utilized) Epidemiological Study Designs, Joint Statistical Meetings, Miami Beach, FL. (August 2012) Session Chair, Statistical Methods, International useR! Conference, Nashville, TN (June

2012)

Session Organizer, Outcome Dependent Sampling for Correlated / Longitudinal Data, Joint Statistical Meetings, Miami Beach, FL. (August 2011)

Session Organizer and Chair, Outcome Dependent Sampling, Joint Statistical Meetings, Seattle, Washington. (August 2009)

Session Organizer and Chair, Quantitative Safety Assessment, Midwest Biopharmaceutical Statistics Workshop, Muncie, Indiana (May 2009)

Session Organizer and Chair, Data Mining Tools and Resources, Midwest Biopharmaceutical Statistics Workshop, Muncie, Indiana (May 2007)

Session Chair, Analysis of Correlated Data and Mixed Models, Joint Statistical Meetings, Seattle, Washington (August 2006)

TEACHING ACTIVITIES

- Courses Advanced Regression Analysis II (Longitudinal Data Analysis), Vanderbilt University, Department of Biostatistics (Spring 2013-2019).
Graduate Teaching Assistant, University of Washington, Department of Biostatistics, *Categorical Data Analysis in Epidemiology* (2004).
Graduate Teaching Assistant, University of Washington, Department of Biostatistics, *Classical Theory of Linear Models* (2002).
Graduate Teaching Assistant, University of North Carolina, Department of Biostatistics, *Basic Elements of Probability and Statistical Inference* (1995).
Undergraduate Teaching Assistant, Indiana University, Department of Mathematics, *Brief Survey of Calculus* (1993-1994).
Undergraduate Teaching Assistant, Indiana University, Department of Mathematics, *Basic Algebra* (1992).
- Students Qi Liu, PhD (Biostatistics) 2016; Committee member
Nathaniel Mercaldo, PhD (Biostatistics) 2017; Advisor
Christina Tripp, PhD (Biostatistics) 2018; Committee member
Mark Giganti, PhD (Biostatistics) 2018; Committee member
Brooklyn Stanley, MS (Biostatistics) 2019; Advisor
Ben Lane MS (Biostatistics) 2020; Advisor
Ying Liu, PhD (Epidemiology) 2020; Committee member
Ryan Jarrett (Biostatistics; 2017–present; PhD committee)
Hannah Weeks (Biostatistics; 2018–present; PhD committee)
Sarah Lotspeich (Biostatistics; 2018–present; PhD committee)
Mindy Pike (Epidemiology; 2020–present; PhD committee)
Michael Williams (Biostatistics; 2020–present; PhD committee)
- Seminars Marginal and Conditional Modeling of Longitudinal Binary Response Data, Vanderbilt Department of Biostatistics (August 2005).
Flexible longitudinal regression modeling of clinical lab data for early detection of drug toxicity, Vanderbilt Department of Biostatistics (May 2006).
A nested case-control design for longitudinal data, Vanderbilt Department of Biostatistics (March 2007).
A nested case-control design for longitudinal data, Vanderbilt Epidemiology Center (April 2007).
Longitudinal Data Analysis following Case-Control Sampling with Application to an eight year ADHD Study in Children, Vanderbilt Epidemiology Center (November 2008).
Longitudinal studies of binary response data following case-control and stratified case-control sampling, Vanderbilt Department of Biostatistics (July 2009).
Analyses of longitudinal, hospital clinical laboratory data with application to blood glucose concentrations, Vanderbilt Department of Biostatistics (May 2011).
Optimizing drug outcome through pharmacogenetics: A case for preemptive genotyping,

Staff Retreat, Vanderbilt Department of Biostatistics (May 2012).
 Optimizing drug outcome through pharmacogenetics: A case for preemptive genotyping, Grand Rounds, Vanderbilt Department of Anesthesiology (June 2012).
 More Bang for Less Bucks: High Powered Epidemiologic Study Designs for Longitudinal Data, Vanderbilt Epidemiology Center (Oct 2013)
 More Bang for Less Bucks: High Powered Epidemiologic Study Designs for Longitudinal Data, Vanderbilt Center for Health Services research (Nov 2013)
 Development and implementation of a predictive model for preemptive pharmacogenetic testing, Vanderbilt Department of Biostatistics (November 2013).
 Development and implementation of a predictive model for preemptive pharmacogenetic testing, Vanderbilt Department of Biomedical Informatics (Sept 2014).
 Outcome related sampling designs for longitudinal binary data with application to spirometry-based COPD diagnosis, Vanderbilt Department of Biostatistics (Feb 2016)
 A Decision Theoretic Approach to Preemptive Genotyping, Vanderbilt Personalized Medicine Seminar (Sept 2018).

PUBLICATIONS and PRESENTATIONS

Publications

Peer-Reviewed Papers

1. Fetterman BA, Kim BS, Margolin BH, Schildcrout JS, Smith MG, Wagner SM, Zeiger E. Predicting rodent carcinogenicity from mutagenic potency measured in the Ames Salmonella assay. *Environ Mol Mutagen.* 1997;29(3):312-22. Review. PubMed PMID: 9142175.
2. Schildcrout JS, Margolin BH, Zeiger E. Predicting rodent carcinogenicity using potency measures of the in vitro sister chromatid exchange and chromosome aberration assays. *Environ Mol Mutagen.* 1999;33(1):59-64. PubMed PMID: 10037324.
3. Miller JM, Smalling R, Ohman EM, Bode C, Betriu A, Kleiman NS, Schildcrout JS, Bastos E, Topol EJ, Califf RM. 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.* 1999 Oct 1;84(7):779-84. PubMed PMID: 10513773.
4. Goss CH, Newsom SA, Schildcrout JS, Sheppard L, Kaufman JD. Effect of ambient air pollution on pulmonary exacerbations and lung function in cystic fibrosis. *Am J Respir Crit Care Med.* 2004 Apr 1;169(7):816-21. PubMed PMID: 14718248.
5. Kanter JW, Schildcrout JS, Kohlenberg RJ. In vivo processes in cognitive therapy for depression: Frequency and benefits. *Psychotherapy Research.* 2005;15(4):366-373.
6. Sheppard L, Slaughter JC, Schildcrout J, Liu LJ, Lumley T. Exposure and measurement contributions to estimates of acute air pollution effects. *J Expo Anal Environ Epidemiol.* 2005 Jul;15(4):366-76. PubMed PMID: 15602584.
7. Schildcrout JS, Heagerty PJ. Regression analysis of longitudinal binary data with time-dependent environmental covariates: bias and efficiency. *Biostatistics.* 2005 Oct;6(4):633-52. PubMed PMID: 15917376.
8. Denny JC, Spickard A 3rd, Miller RA, Schildcrout J, Darbar D, Rosenbloom ST, Peterson JF. Identifying UMLS concepts from ECG Impressions using KnowledgeMap. *AMIA Annu Symp Proc.* 2005:196-200. PubMed PMID: 16779029; PubMed Central PMCID: PMC1479847.
9. Trenga CA, Sullivan JH, Schildcrout JS, Shepherd KP, Shapiro GG, Liu LJ, Kaufman JD, Koenig JQ. Effect of particulate air pollution on lung function in adult and pediatric subjects in a Seattle panel study. *Chest.* 2006 Jun;129(6):1614-22. PubMed PMID: 16778283.

10. [Schildcrout JS](#), Sheppard L, Lumley T, Slaughter JC, Koenig JQ, Shapiro GG. Ambient air pollution and asthma exacerbations in children: an eight-city analysis. *Am J Epidemiol.* 2006 Sep 15;164(6):505-17. PubMed PMID: 16798793.
11. [Schildcrout JS](#), Heagerty PJ. Marginalized models for moderate to long series of longitudinal binary response data. *Biometrics.* 2007 Jun;63(2):322-31. PubMed PMID: 17688485.
12. FitzHenry F, Peterson JF, Arrieta M, Waitman LR, [Schildcrout JS](#), Miller RA. Medication administration discrepancies persist despite electronic ordering. *J Am Med Inform Assoc.* 2007 Nov-Dec;14(6):756-64. PubMed PMID: 17712089; PubMed Central PMCID: PMC2213483.
13. [Schildcrout JS](#), Jenkins CA, Ostroff JH, Gillen DL, Harrell FE, Trost DC. Analysis of longitudinal laboratory data in the presence of common selection mechanisms: a view toward greater emphasis on pre-marketing pharmaceutical safety. *Stat Med.* 2008 May 30;27(12):2248-66. PubMed PMID: 17929332.
14. [Schildcrout JS](#), Heagerty PJ. On outcome-dependent sampling designs for longitudinal binary response data with time-varying covariates. *Biostatistics.* 2008 Oct;9(4):735-49. doi: 10.1093/biostatistics/kxn006. PubMed PMID: 18372397; PubMed Central PMCID: PMC2733177.
15. Haneuse S, [Schildcrout J](#), Crane P, Sonnen J, Breitner J, Larson E. Adjustment for selection bias in observational studies with application to the analysis of autopsy data. *Neuroepidemiology.* 2009;32(3):229-39. doi: 10.1159/000197389. PubMed PMID: 19176974; PubMed Central PMCID: PMC2698450.
16. Aliferis CF, Statnikov A, Tsamardinos I, [Schildcrout JS](#), Shepherd BE, Harrell FE Jr. Factors influencing the statistical power of complex data analysis protocols for molecular signature development from microarray data. *PLoS One.* 2009;4(3):e4922. doi: 10.1371/journal.pone.0004922. PubMed PMID: 19290050; PubMed Central PMCID: PMC2654113.
17. Fieberg J, Rieger RH, Zicus MC, [Schildcrout JS](#). Regression modelling of correlated data in ecology: subject-specific and population averaged response patterns. *Journal of Applied Ecology.* 2009;46(5):1018-1025.
18. Bowens C Jr, Gupta RK, O'Byrne WT, [Schildcrout JS](#), Shi Y, Hawkins JJ, Michaels DR, Berry JM. Selective local anesthetic placement using ultrasound guidance and neurostimulation for infraclavicular brachial plexus block. *Anesth Analg.* 2010 May 1;110(5):1480-5. doi: 10.1213/ANE.0b013e3181d7e07e. PubMed PMID: 20418309.
19. Pulley J, Hassan NN, Bernard GR, Jirjis JN, [Schildcrout J](#), Robertson D, Masys DR, Harris P. Identifying unpredicted drug benefit through query of patient experiential knowledge: a proof of concept web-based system. *Clin Transl Sci.* 2010 Jun;3(3):98-103. doi: 10.1111/j.1752-8062.2010.00200.x. PubMed PMID: 20590678; PubMed Central PMCID: PMC2910903.
20. [Schildcrout JS](#), Rathouz PJ. Longitudinal studies of binary response data following case-control and stratified case-control sampling: design and analysis. *Biometrics.* 2010 Jun;66(2):365-73. doi: 10.1111/j.1541-0420.2009.01306.x. PubMed PMID: 19673861; PubMed Central PMCID: PMC3051172.
21. Miller A, Pilcher D, Mercaldo N, Leong T, Scheinkestel C, [Schildcrout J](#). What can paper-based clinical information systems tell us about the design of computerized clinical information systems (CIS) in the ICU? *Aust Crit Care.* 2010 Aug;23(3):130-40. doi: 10.1016/j.aucc.2010.02.001. PubMed PMID: 20346695.
22. Hughes CG, Weavind L, Banerjee A, Mercaldo ND, [Schildcrout JS](#), Pandharipande PP. Intraoperative risk factors for acute respiratory distress syndrome in critically ill patients. *Anesth Analg.* 2010 Aug;111(2):464-7. doi: 10.1213/ANE.0b013e3181d8a16a. PubMed PMID: 20418537.

23. Matheny ME, Miller RA, Ikizler TA, Waitman LR, Denny JC, Schildcrout JS, Dittus RS, Peterson JF. Development of inpatient risk stratification models of acute kidney injury for use in electronic health records. *Med Decis Making*. 2010 Nov-Dec;30(6):639-50. doi: 10.1177/0272989X10364246. PubMed PMID: 20354229; PubMed Central PMCID: PMC4850549.
24. Peterson JF, Shi Y, Denny JC, Matheny ME, Schildcrout JS, Waitman LR, Miller RA. Prevalence and Clinical Significance of Discrepancies within Three Computerized Pre-Admission Medication Lists. *AMIA Annu Symp Proc*. 2010 Nov 13;2010:642-6. PubMed PMID: 21347057; PubMed Central PMCID: PMC3041392.
25. McCoy AB, Waitman LR, Gadd CS, Danciu I, Smith JP, Lewis JB, Schildcrout JS, Peterson JF. A computerized provider order entry intervention for medication safety during acute kidney injury: a quality improvement report. *Am J Kidney Dis*. 2010 Nov;56(5):832-41. doi: 10.1053/j.ajkd.2010.05.024. PubMed PMID: 20709437; PubMed Central PMCID: PMC2963668.
26. Schildcrout JS, Basford MA, Pulley JM, Masys DR, Roden DM, Wang D, Chute CG, Kullo IJ, Carrell D, Peissig P, Kho A, Denny JC. An analytical approach to characterize morbidity profile dissimilarity between distinct cohorts using electronic medical records. *J Biomed Inform*. 2010 Dec;43(6):914-23. doi: 10.1016/j.jbi.2010.07.011. PubMed PMID: 20688191; PubMed Central PMCID: PMC2991387.
27. Denny JC, Ritchie MD, Crawford DC, Schildcrout JS, Ramirez AH, Pulley JM, Basford MA, Masys DR, Haines JL, Roden DM. Identification of genomic predictors of atrioventricular conduction: using electronic medical records as a tool for genome science. *Circulation*. 2010 Nov 16;122(20):2016-21. doi: 10.1161/CIRCULATIONAHA.110.948828. PubMed PMID: 21041692; PubMed Central PMCID: PMC2991609.
28. Hyman SA, Michaels DR, Berry JM, Schildcrout JS, Mercaldo ND, Weinger MB. Risk of burnout in perioperative clinicians: a survey study and literature review. *Anesthesiology*. 2011 Jan;114(1):194-204. doi: 10.1097/ALN.0b013e318201ce9a. Review. PubMed PMID: 21178675.
29. Ramirez AH, Schildcrout JS, Blakemore DL, Masys DR, Pulley JM, Basford MA, Roden DM, Denny JC. Modulators of normal electrocardiographic intervals identified in a large electronic medical record. *Heart Rhythm*. 2011 Feb;8(2):271-7. doi: 10.1016/j.hrthm.2010.10.034. PubMed PMID: 21044898; PubMed Central PMCID: PMC3057498.
30. Reynolds PQ, Sanders NW, Schildcrout JS, Mercaldo ND, St Jacques PJ. Expansion of the surgical Apgar score across all surgical subspecialties as a means to predict postoperative mortality. *Anesthesiology*. 2011 Jun;114(6):1305-12. doi: 10.1097/ALN.0b013e318219d734. PubMed PMID: 21502856.
31. Schildcrout JS, Haneuse S, Peterson JF, Denny JC, Matheny ME, Waitman LR, Miller RA. Analyses of longitudinal, hospital clinical laboratory data with application to blood glucose concentrations. *Stat Med*. 2011 Nov 30;30(27):3208-20. doi: 10.1002/sim.4352. PubMed PMID: 21948391; PubMed Central PMCID: PMC3339442.
32. Schildcrout JS, Heagerty PJ. Outcome-dependent sampling from existing cohorts with longitudinal binary response data: study planning and analysis. *Biometrics*. 2011 Dec;67(4):1583-93. doi: 10.1111/j.1541-0420.2011.01582.x. PubMed PMID: 21457191; PubMed Central PMCID: PMC3134621.
33. Delaney JT, Ramirez AH, Bowton E, Pulley JM, Basford MA, Schildcrout JS, Shi Y, Zink R, Oetjens M, Xu H, Cleator JH, Jahangir E, Ritchie MD, Masys DR, Roden DM, Crawford DC, Denny JC. Predicting clopidogrel response using DNA samples linked to an electronic health record. *Clin Pharmacol Ther*. 2012 Feb;91(2):257-63. doi: 10.1038/clpt.2011.221. PubMed PMID: 22190063; PubMed Central PMCID: PMC3621954.
34. Ramirez AH, Shi Y, Schildcrout JS, Delaney JT, Xu H, Oetjens MT, Zuvich RL, Basford MA, Bowton E, Jiang M, Speltz P, Zink R, Cowan J, Pulley JM, Ritchie MD, Masys DR, Roden DM, Crawford DC, Denny JC. Predicting warfarin dosage in European-Americans and African-Americans using DNA samples linked to an electronic health record. *Pharmacogenomics*. 2012 Mar;13(4):407-18. doi: 10.2217/pgs.11.164. PubMed PMID: 22329724; PubMed Central PMCID: PMC3361510.

35. Haneuse S, Schildcrout J, Gillen D. A two-stage strategy to accommodate general patterns of confounding in the design of observational studies. *Biostatistics*. 2012 Apr;13(2):274-88. doi: 10.1093/biostatistics/kxr044. PubMed PMID: 22130627; PubMed Central PMCID: PMC3297823.
36. Siew ED, Ikizler TA, Matheny ME, Shi Y, Schildcrout JS, Danciu I, Dwyer JP, Srichai M, Hung AM, Smith JP, Peterson JF. Estimating baseline kidney function in hospitalized patients with impaired kidney function. *Clin J Am Soc Nephrol*. 2012 May;7(5):712-9. doi: 10.2215/CJN.10821011. PubMed PMID: 22422536; PubMed Central PMCID: PMC3338282.
37. Lenart MJ, Wong K, Gupta RK, Mercaldo ND, Schildcrout JS, Michaels D, Malchow RJ. The impact of peripheral nerve techniques on hospital stay following major orthopedic surgery. *Pain Med*. 2012 Jun;13(6):828-34. doi: 10.1111/j.1526-4637.2012.01363.x. PubMed PMID: 22494645.
38. Pulley JM, Denny JC, Peterson JF, Bernard GR, Vnencak-Jones CL, Ramirez AH, Delaney JT, Bowton E, Brothers K, Johnson K, Crawford DC, Schildcrout J, Masys DR, Dilks HH, Wilke RA, Clayton EW, Shultz E, Laposata M, McPherson J, Jirjis JN, Roden DM. Operational implementation of prospective genotyping for personalized medicine: the design of the Vanderbilt PREDICT project. *Clin Pharmacol Ther*. 2012 Jul;92(1):87-95. doi: 10.1038/clpt.2011.371. PubMed PMID: 22588608; PubMed Central PMCID: PMC3581305.
39. Billings FT 4th, Pretorius M, Schildcrout JS, Mercaldo ND, Byrne JG, Ikizler TA, Brown NJ. Obesity and oxidative stress predict AKI after cardiac surgery. *J Am Soc Nephrol*. 2012 Jul;23(7):1221-8. doi: 10.1681/ASN.2011090940. PubMed PMID: 22626819; PubMed Central PMCID: PMC3380645.
40. Schildcrout JS*, Denny JC*, Bowton E, Gregg W, Pulley JM, Basford MA, Cowan JD, Xu H, Ramirez AH, Crawford DC, Ritchie MD, Peterson JF, Masys DR, Wilke RA, Roden DM. Optimizing drug outcomes through pharmacogenetics: a case for preemptive genotyping. *Clin Pharmacol Ther*. 2012 Aug;92(2):235-42. doi: 10.1038/clpt.2012.66. PubMed PMID: 22739144; PubMed Central PMCID: PMC3785311.
41. Schildcrout JS, Mumford SL, Chen Z, Heagerty PJ, Rathouz PJ. Outcome-dependent sampling for longitudinal binary response data based on a time-varying auxiliary variable. *Stat Med*. 2012 Sep 28;31(22):2441-56. doi: 10.1002/sim.4359. PubMed PMID: 22086716; PubMed Central PMCID: PMC3432177.
42. Denny JC, Schildcrout JS, Pulley JM, Roden DM. Response to "Doubt about the feasibility of preemptive genotyping". *Clin Pharmacol Ther*. 2013 Mar;93(3):234. doi: 10.1038/clpt.2012.223. PubMed PMID: 23249779.
43. Ritchie MD, Denny JC, Zuvich RL, Crawford DC, Schildcrout JS, Bastarache L, Ramirez AH, Mosley JD, Pulley JM, Basford MA, Bradford Y, Rasmussen LV, Pathak J, Chute CG, Kullo IJ, McCarty CA, Chisholm RL, Kho AN, Carlson CS, Larson EB, Jarvik GP, Sotoodehnia N; Cohorts for Heart and Aging Research in Genomic Epidemiology (CHARGE) QRS Group., Manolio TA, Li R, Masys DR, Haines JL, Roden DM. Genome- and phenome-wide analyses of cardiac conduction identifies markers of arrhythmia risk. *Circulation*. 2013 Apr 2;127(13):1377-85. doi: 10.1161/CIRCULATION-AHA.112.000604. PubMed PMID: 23463857; PubMed Central PMCID: PMC3713791.
44. Liu M, McPeck Hinz ER, Matheny ME, Denny JC, Schildcrout JS, Miller RA, Xu H. Comparative analysis of pharmacovigilance methods in the detection of adverse drug reactions using electronic medical records. *J Am Med Inform Assoc*. 2013 May 1;20(3):420-6. doi: 10.1136/amiajnl-2012-001119. PubMed PMID: 23161894; PubMed Central PMCID: PMC3628053.
45. Kynes JM, Schildcrout JS, Hickson GB, Pichert JW, Han X, Ehrenfeld JM, Westlake MW, Catron T, Jacques PS. An analysis of risk factors for patient complaints about ambulatory anesthesiology care. *Anesth Analg*. 2013 Jun;116(6):1325-32. doi: 10.1213/ANE.0b013e31827aef83. PubMed PMID: 23385054.

46. Schildcrout JS, Garbett SP, Heagerty PJ. Outcome vector dependent sampling with longitudinal continuous response data: stratified sampling based on summary statistics. *Biometrics*. 2013 Jun;69(2):405-16. doi: 10.1111/biom.12013. PubMed PMID: 23409789; PubMed Central PMCID: PMC3880022.
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Submitted

1. McDaniel LS, Schildcrout JS, Schisterman EF, Rathouz PJ. Generalized Linear Models for Longitudinal Data with Biased Sampling Designs: A Sequential Offsetted Regressions Approach. 2020. arXiv preprint arXiv:2001.04444

Book Chapters

1. Rathouz PJ, Schildcrout JS, Zelnick LR, Heagerty PJ. Response Selective Study Designs using Existing Longitudinal Cohorts. In: Borgan O, Breslow N, Chatterjee N, Gail M, Scott A, editors. *Handbook of Case-Control Studies*, June 2018.

Presentations

Invited Presentations

1. Epidemiological Study Designs for quantitative longitudinal and multivariate longitudinal outcomes, University of South Carolina, Department of Statistics, September 2020.
2. Epidemiological Study Designs for quantitative longitudinal and multivariate longitudinal outcomes, University of North Carolina, Department of Biostatistics, September 2020.
3. Two-phase, generalized case-control designs for quantitative longitudinal outcomes. International Statistics Institute, World Statistics Congress, Kuala Lumpur, Malaysia, August 2019.
4. A decision theoretic approach to pre-emptive genotyping, Joint Statistical Meetings, Denver, CO, July 2019
5. A decision theoretic approach to pre-emptive genotyping, International Health Economics Association Meeting, Basel, Switzerland, July 2019
6. Two-phase, generalized case-control designs for quantitative longitudinal outcomes. East North American Region of the International Biometric Society, Philadelphia, PA, March 2019.
7. Applications of survival analysis towards building a value-driven pre-emptive genotyping program, Conference on Computational and Methodological Statistics, Pisa, Italy, December 2018.
8. Multi-wave, Outcome Dependent Sampling Designs for Longitudinal Binary Data, Royal Statistical Society, Cardiff, Wales, United Kingdom, September 2018.
9. Retrospective Study Designs for Longitudinal Data Obtained from a Biobank-Linked Electronic Medical Records, Joint Statistical Meetings, Vancouver BC, Canada, August 2018.
10. Multi-wave, Response-Selective Study Designs for Longitudinal Binary Data, Biostatistics Research Branch, National Institutes of Allergy and Infectious Diseases, Bethesda, MD, May 2018.
11. Retrospective Study Designs for Longitudinal Data Obtained from a Biobank-Linked Electronic Medical Records, East North American Region of the International Biometric Society, Atlanta GA, March 2018.
12. Modeling approaches and decision-making strategies for a preemptive, multiplexed genomic testing program, University of Michigan, Ann Arbor, Michigan November 2017.
13. Adaptive outcome dependent sampling designs with longitudinal binary response data. Department of Biostatistics, University of Michigan, Ann Arbor, Michigan November 2017.

14. Using Historical, Electronic Health Record Data to Bolster a Cluster Randomized Trial of Early Childhood Obesity. Joint Statistical Meetings, Baltimore MD, August 2017.
15. Using Historical, Electronic Health Record Data to Bolster a Cluster Randomized Trial of Early Childhood Obesity. East North American Region of the International Biometric Society, Washington DC, March 2017.
16. Modeling strategies to enrich a multiplexed, preemptive genomic testing program using electronic health records data, Computational and Methodological Statistics Conference, Seville, Spain, December 2016.
17. Modeling strategies to enrich a multiplexed, preemptive genomic testing program using electronic health records data, Michigan Institute of Data Science Annual Symposium, Ann Arbor, MI, November 2016.
18. Auxiliary variable sampling designs for longitudinal binary data with application to spirometry-based COPD diagnosis, Joint Statistical Meetings, Chicago, IL, August 2016.
19. Efficient epidemiological study designs for quantitative longitudinal data, International Chinese Statistical Association, Applied Statistics Symposium, Atlanta, GA, June 2016.
20. Extending the case-control design to longitudinal data: stratified sampling based on binary response vectors, Department of Public Health Sciences, University of Chicago, May 2016.
21. Extending the case-control design to longitudinal data: stratified sampling based on binary response vectors, Department of Biostatistics, University of Colorado, Denver, May 2016.
22. Targeted sampling designs to improve research efficiency with application to a longitudinal lung function study in children with asthma, Department of Public Health Science, University of California, Davis, October 2015.
23. Auxiliary variable sampling designs for longitudinal binary data with application to spirometry-based COPD diagnosis, University of Louisville, September 2015.
24. An Evaluation of Approaches to Integrate Pre-emptive Genomic Testing into Medication Prescribing Decisions, International Health Economics Association Meeting, Milan, IT, July 2015
25. Design and analysis of efficient epidemiological substudies from large longitudinal cohorts, Society for Epidemiological Research Conference, Denver, CO, June 2015.
26. Design and Analysis of retrospective studies for longitudinal data, East North American Region of the International Biometric Society, Miami, FL, March 2015.
27. Development and validation of a predictive model for preemptive pharmacogenetic testing, Society for Medical Decision Making, North American Meeting, Miami, FL, October 2014
28. Development and validation of a predictive model for preemptive pharmacogenetic testing, Seattle Symposium on Health Care Data Analytics, Seattle, WA, September 2014
29. Analytical approaches for targeted subsampling designs with longitudinal continuous response data, Southern Regional Council on Statistics Summer Research Conference, Galveston, Texas, June 2014
30. Analytical approaches for targeted subsampling designs with longitudinal continuous response data, Department of Biostatistics, University of Florida, Gainesville, FL, May 2014
31. Development and implementation of a predictive model for preemptive pharmacogenetic testing, Department of Biostatistics and Medical Informatics, University of Wisconsin, Madison, WI, November 2013.

32. Efficient Subsampling from Existing Cohort Studies with Longitudinal Continuous Response Data. Department of Biostatistics and Epidemiology, University of Pennsylvania, Philadelphia, PA April 2013.
33. Outcome vector dependent sampling with longitudinal continuous response data: stratified sampling based on summary statistics. Harvard School of Public Health, Environmental Statistics Working Group, Boston MA April 2012.
34. Outcome Dependent Sampling for Longitudinal Binary Response Data Based on a Time-Varying Auxiliary Variable, East North American Region of the International Biometric Society, Washington DC, April 2012.
35. Outcome vector dependent sampling with longitudinal continuous response data: stratified sampling based on summary statistics. University of Colorado, Denver, Denver CO, February 2012.
36. Response biased sampling with longitudinal continuous response data: study planning and analysis, University of Maryland Baltimore County, Baltimore, MD, November 2011.
37. Semiparametric Estimation for Longitudinal Binary Response Model Parameters Under Outcome-Dependent Sampling Designs, Joint Statistical Meetings, Miami Beach, FL, August 2011.
38. Semiparametric Estimation for Longitudinal Binary Response Model Parameters Under Outcome-Dependent Sampling Designs, International Mathematics Society-China Conference on Probability and Statistics, Xi'An, China, July 2011.
39. Analyses of longitudinal, hospital clinical laboratory data with application to blood glucose concentrations , Causal Inference in Health Research Workshop, Montreal, Canada, May 2011.
40. Longitudinal studies of binary response data following case-control and stratified case-control sampling, Division of Epidemiology, Statistics and Prevention Research, National Institutes of Child Health and Human Development, Bethesda, MD, September 2010.
41. Longitudinal studies of binary response data following case-control and stratified case-control sampling, University of Southern California, Los Angeles, CA, April 2010.
42. Longitudinal studies of binary response data following case-control and stratified case-control sampling, University of California, Irvine, CA, April 2010.
43. On Planning an Outcome Dependent Sampling Study with Longitudinal Binary Response Data, East North American Region of the International Biometric Society, San Antonio, TX, March 2009.
44. Statistical considerations in the practice of law, The Henry Phillips Chapter of the American Inns of Court Meeting, Nashville, TN, January 2008.
45. Analysis of Longitudinal Clinical Lab Data with Latent Mixture Models, Biopharmaceutical Applied Statistics Symposium, Savannah, GA, November 2007.
46. Analysis of Longitudinal Clinical Lab Data with Latent Mixture Models, The International Conference on Industrial and Applied Mathematics, Zurich, Switzerland, July 2007.
47. 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.
48. Flexible Regression Modeling of Longitudinal Clinical Lab Data, presented at Pfizer Inc., Groton, CT, July 2006.
49. Dynamic Regression Models towards Early Detection of Drug Toxicity, Presented at the Midwest Biopharmaceutical Statistics Workshop, Muncie, IN, May 2006.
50. 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.

Contributed Presentations

1. Adaptive outcome dependent sampling designs with longitudinal binary response data. CEN ISBS, Joint Conference on Biometrics and Biopharmaceutical Statistics, Vienna Austria, August 2017 (Topic contributed).
2. Outcome vector dependent sampling with longitudinal continuous response data. Joint Statistical Meetings, Boston MA, August 2014 (Topic contributed).
3. Outcome vector dependent sampling with longitudinal continuous response data: stratified sampling based on summary statistics. Joint Statistical Meetings, San Diego CA, August 2012 (Topic contributed).
4. Time and outcome dependent sampling studies for longitudinal binary response data, International Biometrics Conference, Florianopolis, Brazil, December 2010.
5. Time and outcome dependent sampling studies for longitudinal binary response data, Joint Statistical Meetings, Vancouver, British Columbia, August 2010.
6. Analysis and Summarization of Longitudinal Clinical Lab Data Towards Detection of Hepatotoxicity, Joint Statistical Meetings, Denver, Colorado, August 2008 (Topic contributed).
7. Efficient Outcome Dependent Sampling Designs for Longitudinal Binary Response Data, International Biometrics Conference, Dublin, Ireland, July 2008.
8. An Efficient Outcome-Dependent Sampling for Longitudinal Binary Response Data, presented at the Joint Statistical Meetings, Seattle, WA, August 2006 (Topic contributed).
9. 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.
10. Outcome Dependent Sampling with Longitudinal Binary Response Data, presented at the West North American Region of the International Biometrics Society, June 2004.
11. Marginalized regression models for categorical data with both serial and long-range dependence. Presented at the Joint Statistical Meetings, August 2003.
12. Spatial and temporal variation in fine particulate concentrations in Seattle. Poster at the annual meeting of the International Society for Environmental Epidemiology, August 2002.
13. 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.

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