

Curriculum Vitae

Joseph G. Ibrahim

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Date of Birth: March 2, 1962

Citizenship: U.S.A.

EDUCATION:

1983	Mathematics	B.S.	University of Minnesota
1988	Statistics	M.S.	University of Minnesota
1988	Statistics	Ph.D.	University of Minnesota

ACADEMIC APPOINTMENTS:

2006 – present	Alumni Distinguished Professor (with tenure), Department of Biostatistics, University of North Carolina at Chapel Hill
2009 – present	Joint Appointment in the Department of Statistics and Operations Research (STOR) , University of North Carolina at Chapel Hill
2007 – present	Director of the Center for Innovative Clinical Trials , University of North Carolina at Chapel Hill
2006 – present	Biostatistics Core Faculty Director , Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill
2002 – present	Professor (with tenure), Department of Biostatistics, University of North Carolina at Chapel Hill
1996 – 2002	Associate Professor , Department of Biostatistics, Harvard University, and Dana-Farber Cancer Institute

ACADEMIC APPOINTMENTS:

- 1994 – 1996 **Assistant Professor**, Department of Biostatistics, Harvard University, and Dana-Farber Cancer Institute
1994 **Associate Professor**, (with tenure), Division of Statistics, Northern Illinois University
1988 – 1994 **Assistant Professor**, Division of Statistics, Northern Illinois University

HONORS AND DISTINCTIONS:

- 1999 Elected Fellow, American Statistical Association
2000 Elected Fellow, Institute of Mathematical Statistics
1989 Elected Fellow, Royal Statistical Society
2000 Elected member, International Statistical Institute
2005 Janssen Research Foundation Chair in Survival Analysis, Limbergs Universitair Centrum (LUC), Belgium
2006 Alumni Distinguished Professor, University of North Carolina at Chapel Hill
2020 Elected Fellow, International Society of Bayesian Analysis (ISBA)

PROFESSIONAL SOCIETIES:

Royal Statistical Society
American Statistical Association
International Biometric Society
Institute of Mathematical Statistics

MAJOR ADMINISTRATIVE RESPONSIBILITIES:

- 2003 – present **Director of Graduate Studies**, Department of Biostatistics, University of North Carolina at Chapel Hill
- 2007 – present **Director of the Laboratory for Innovative Clinical Trials (LICT)**, University of North Carolina at Chapel Hill
- 2006 – present **Biostatistics Core Faculty Director**, Lineberger Comprehensive Cancer Center, University of North Carolina at Chapel Hill
- 2004– present **Director**: Cancer Genomics Training Grant, University of North Carolina at Chapel Hill
- 2007 – 2008 **Faculty Retreat Committee**, Department of Biostatistics, University of North Carolina at Chapel Hill
- 2007 – 2008 **Self-Study Committee**, Department of Biostatistics, University of North Carolina at Chapel Hill
- 2006 – 2009 **Committee on Education of Public Health (CEPH)**, University of North Carolina at Chapel Hill
- 2002 – present **Member**, Qualifying Exam Committee, Department of Biostatistics, University of North Carolina at Chapel Hill
- 1994 – 1997 **Member**, Student Admissions Committee, Department of Biostatistics, Harvard School of Public Health
- 1994 – 2002 **Member**, Curriculum Committee, Department of Biostatistics, Harvard School of Public Health
- 1997 – 1998 **Chair**, Curriculum Committee, Department of Biostatistics, Harvard School of Public Health
- 1996 – 1998 **Member**, Degree Program Committee, Department of Biostatistics, Harvard School of Public Health
- 2001 – 2002 **Chair**, Degree Program Committee, Department of Biostatistics, Harvard School of Public Health
- 1997 – 1998 **Member**, Qualifying Exam Committee, Department of Biostatistics, Harvard School of Public Health
- 1998 – 2002 **Chair**, Qualifying Exam Committee, Department of Biostatistics, Harvard School of Public Health
- 1999 – 2000 **Chair**, Masters Degree Program Committee, Department of Biostatistics, Harvard School of Public Health

MAJOR PROFESSIONAL SERVICE:

2013 – 2015	Editor for the <i>Journal of the American Statistical Association (Applications and Case Studies)</i>
2001 – 2012	Associate Editor for the <i>Journal of the American Statistical Association (Applications and Case Studies)</i>
2018 – present	Associate Editor for the <i>Journal of the American Statistical Association (Applications and Case Studies)</i>
2011 – 2021 present	Associate Editor for the <i>Journal of the American Statistical Association (Theory and Methods)</i>
2004 – 2018	Associate Editor for <i>Bayesian Analysis</i>
2007 – 2010	Section Chair , Section on Bayesian Statistical Sciences, American Statistical Association
2005 – 2009	Biostatistical Methods and Research Design (BMRD) NIH Study Section (Regular Member)
1999 – 2002	Treasurer , Section on Bayesian Statistical Sciences, American Statistical Association
2003 – 2008	Associate Editor for the <i>Journal of the American Statistical Association (Theory and Methods)</i>
1999 – 2002	Associate Editor for <i>Lifetime Data Analysis</i>
2000 – 2002	Associate Editor for <i>Biometrics</i>
2002 – 2006	Associate Editor for <i>Applied Statistics</i>
2002 – 2005	Epidemiology of Cancer (EPIC) NIH Study Section (Regular Member)

BUSINESS EXPERIENCE:

2006 – 2013	Consultant , Glaxo-Smith-Kline Pharmaceuticals, Raleigh, NC
2007 – present	Consultant , Amgen, Inc, Thousand Oaks, CA
2007 – present	Consultant , Merck, Inc, Rahway, NJ
2010 – 2012	Consultant , Eli Lilly and Company, Indianapolis, IN
2012 – 2015	Consultant , Pfizer Inc, Cambridge, MA
2003 – 2010	Consultant , SAS Institute, Cary, NC
2006 – 2008	Consultant , Schering-Plough Research Institute, Roselle, NJ
1999 – 2007	Consultant , Cytel Corporation, Cambridge, MA
2001 – 2002	Consultant , Insightful Corporation, Seattle, WA
1999 – 2002	Consultant , Genta Incorporated, Lexington, MA
1993 – 1995	Consultant , DeGussa Corporation, Palatine, IL

MAJOR RESEARCH INTERESTS:

Bayesian methods, missing data problems, cancer genomics

RESEARCH SUPPORT:

- 2010 – present NIH: “Statistical Methods for Cancer Clinical Trials,” (P01)
Co- Principal Investigator: Joseph Ibrahim
- 1996 – present NIH: “Bayesian Approaches to Model Selection for Survival Data” (R01)
Principal Investigator: Joseph Ibrahim
- 1997 – 2012 NIH: “Inference in Regression Models With Missing Covariates” (R01)
Principal Investigator: Joseph Ibrahim
- 2002 – 2013 NIH: “Semiparametric Bayesian Survival Analysis,” (R01)
Co-principal Investigator: Joseph Ibrahim
- 2004 – present NIH: “Biostatistics for Genomics and Cancer,” (T32, Department of Biostatistics Training Grant),
Principal Investigator: Joseph Ibrahim
- 2004 – 2011 NIH: SPORE in Gastrointestinal Cancer,
Biostatistical Core Leader: Joseph Ibrahim
- 2011 – present NIH: SPORE in Breast Cancer,
Biostatistical Core Leader: Joseph Ibrahim
- 2004 – present NIH: Lineberger Comprehensive Cancer Center Core Grant,
Biostatistical Core Faculty Director: Joseph Ibrahim
- 2007 – 2012 NIH: Program Project Grant in Systems Biology of Melanoma,
Biostatistical Core Leader: Joseph Ibrahim
- 2004 – 2008 NIH: “ Statistical Methods for Cardiotoxicity in AIDS” (R01)
Co-principal Investigator: Joseph Ibrahim
- 1997 – 2004 NIH: “ Methods for Analyzing Repeated Categorical Data” (R01)
Co-principal Investigator: Joseph Ibrahim

TEACHING EXPERIENCE:

2016 - 2022	BIOS 762 (Theory and Applications of Linear and Generalized Linear Models) Department of Biostatistics University of North Carolina at Chapel Hill <i>(Course Developer and Lecturer)</i>
2011, 2013	BIOS 763 (Generalized Linear Model Theory and Applications) Department of Biostatistics University of North Carolina at Chapel Hill <i>(Course Developer and Lecturer)</i>
2005 - 2008, 2014 - 2016	BIOS 761 (Advanced Probability and Statistical Inference II) Department of Biostatistics University of North Carolina at Chapel Hill <i>(Course Developer and Lecturer)</i>
2004, 2013	BIOS 773 (Statistical Analysis With Missing Data) Department of Biostatistics University of North Carolina at Chapel Hill <i>(Course Developer and Lecturer)</i>
2002, 2003, 2005, 2007 2009, 2011, 2017, 2021	BIOS 779 (Bayesian Statistics) Department of Biostatistics University of North Carolina at Chapel Hill <i>(Course Developer and Lecturer)</i>
1997, 1999, 2000	BIO 249 (Bayesian Methods in Biostatistics) Department of Biostatistics Harvard School of Public Health <i>(Course Developer and Lecturer)</i>
1995, 1996, 1999	BIO 235 (Regression and Analysis of Variance) Department of Biostatistics Harvard School of Public Health <i>(Course Developer and Lecturer)</i>
2002	BIO 211 (Regression and Analysis of Variance in Experimental Research), Department of Biostatistics, Harvard School of Public Health <i>(Course Developer and Lecturer)</i>
1988 – 1994	STAT 572 (Theory of Linear Models), STAT 574 (Theory of Statistical Inference), STAT 579 (Applied Statistical Methods), STAT 593 (Advanced Regression Analysis), STAT 475 (Applied Regression Analysis), STAT 350 (Introduction to Probability and Statistics), Department of of Mathematical Sciences, Northern Illinois University <i>(Course Developer and Lecturer)</i>

Doctoral Students

1. Kenneth Kleinman (Graduated in 1996), Thesis title: “Longitudinal Repeated Measures: Missing Data and Semi-parametric Random Effects Models”
2. David Shera (Graduated in 1999), Thesis title: “Bayesian Factor Analysis”
3. Anna Legedza (Graduated in 1999), Thesis title: “Bayesian Approaches to the Design of Phase I Clinical Trials”
4. Amy Herring (Graduated in 1999), Thesis title: “Missing Covariates in Survival Analysis”
5. Elizabeth Brown (Graduated in 2002), Thesis title: “Bayesian Methods for Joint Models of Longitudinal and Survival Data”
6. Mahlet Tadesse (Graduated in 2002), Thesis title: “Bayesian Models for Gene Expression Analysis”
7. Amy Stubbendick (Graduated in 2003), Thesis title: “Longitudinal Models with Nonignorable Missing Response and Covariate Data”
8. Qingxia Chen (Graduated in 2005), Thesis title: “Theory and Inference for Parametric and Semiparametric Methods in Missing Data Problems”
9. Yueh-Yun Chi (Graduated in 2005), Thesis title: “Bayesian Methods for Longitudinal and Survival Data with Applications to Clinical Trials and Genomics”
10. Jonathan Gelfond (Graduated in 2007, Winner of Margolin Award for best doctoral dissertation), Thesis title: “Bayesian Model-based Methods For the Analysis of DNA Microarrays with Survival, Genetic, and Sequence Data”
11. Xiaoyan (Amy) Shi (Graduated in 2008, Winner of Margolin Award for best doctoral dissertation), Thesis title: “Diagnostic Measures for Missing Covariate Data and Semiparametric Models for Neuroimaging”
12. Hyunsoon Cho (Graduated in 2009), Thesis title: “Bayesian Influence Diagnostic Methods for Parametric Regression Models”
13. Ramon Garcia (Graduated in 2009), Thesis title: “Variable Selection for Models with Missing Data”
14. Yimei Li (Graduated in 2009), Thesis Title: “Statistical Analysis of Complex Neuroimaging Data”
15. Yunhee Kim (Graduated in 2009), Thesis Title: “Nonparametric and Semiparametric Methods in Medical Diagnostics”

16. Liddy Chen (Graduated in 2010, Winner of Margolin Award for best doctoral dissertation), Thesis Title: “Design Considerations for Complex Survival Models”
17. Ryan May (Graduated in 2011), Thesis Title: “Estimation Methods for Data Subject to Detection Limits”
18. Zakaria Khondker (Graduated in 2013), Thesis Title: “Bayesian Penalized Methods for High-Dimensional Data”
19. Ja-an Lin (Graduated in 2013), Thesis title: “Statistical Methods for Imaging Genetic Data”
20. Naim Rashid (Graduated in 2013, Winner of Margolin Award for best doctoral dissertation), Thesis title: “Model-based Approaches for the Detection of Biologically Active Genomic Regions from Next Generation Sequencing Data”
21. Qiang Sun (Graduated in 2014), Thesis title: “On High Dimensional Sparse Regression and Its Inference”
22. Michelle Miranda (Graduated in 2014), Thesis title: “Bayesian Analysis of Ultra-high Dimensional Neuroimaging Data”
23. Shangbang Rao (Graduated in 2014), Thesis title: “Spatially Regularizing High Angular Resolution Diffusion imaging,”
24. Emil Cornea (Graduated in 2014), Thesis title: “Advanced Biostatistical Methods for Curved and Censored Biomedical Data”
25. Christopher Bryant (Graduated in 2016), Thesis title: “Bayesian Methods For Weighted Block Models with Applications in Brain Functional Connectomics”
26. Eunjee Lee (Graduated in 2016), Thesis title: “Bayesian Models for High-dimensional Biomedical Data”
27. Hojin Yang (Graduated in 2016), Thesis title: “Learning Methods in Reproducing Kernel Hilbert Space Based on High Dimensional Features”
28. Matt Psioda (Graduated in 2016, Winner of Margolin Award for best doctoral dissertation), Thesis title: “Statistical Methods for Bayesian Clinical Trial Design and DNA Methylation Deconvolution”
29. Jingwen Zhang (Graduated in 2018): Thesis title: “Advanced Methods for Discovering Genetic Markers Associated with High Dimensional Imaging Data”
30. Doug Wilson (Graduated in 2018), Thesis title: “Statistical Methods for the Estimation of Cell-Type Composition and Cell-Type Specific Association Studies”
31. Yue Wang (Graduated in 2018), “Partial Least Squares Methods for Functional Regression Models”

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32. Anqi Zhu (Graduated in 2019), “Statistical Methods for Sequencing Count Data and Integrative Functional Genomics”
33. Pedro Baldoni (Graduated in 2020), “Statistical Methods for the Analysis of Epigenomic Data”
34. Xifeng Wang (Graduated in 2021), “Spatially Robust Adaptive Ensemble Average Propagator Reconstruction via Spherical Polar Fourier Imaging”
35. Jiawei Xu (Graduated in 2021), “Bayesian Methods for Clinical Trial Design: Approaches for Joint Models”
36. Ziliang Zhu (Graduated in 2021), “Prediction Methods in Large Scale Network Analysis for Neuroimaging Data”
37. Ethan Alt (Graduated in 2021), “Bayesian Methods for the Use of Historical Data and Prior Information in Clinical Trials”
38. Brady Nifong (Graduated in 2021), “The Scale Transformed Power Prior for Use with Historical Data from a Different Outcome Model”
39. David Lim (current)
40. Nate Bean (current)
41. Hillary Heiling (current)
42. Seoyoon Cho (current)
43. Paloma Hauser (current)
44. Christina Zhou (current)
45. Emily Damone (current)
46. Yueqi Shen (current)
47. Ann Marie Weideman (current)

Postdoctoral Fellows

1. Seong Kim (1998 – 1999)
2. Maura Mezzetti (1999 – 2001)
3. Pingping Qu (2005 – 2007)
4. Fuxia Cheng (2005 – 2007)

5. Bernard Omolo (2009 – 2011)
6. Ruixin Guo (2009 – 2011)
7. Jing Chang (2012 – 2014)
8. Maxmillian Chen (2014 – 2015)

PUBLICATIONS:

Articles:

1. Ibrahim, JG. “Incomplete Data in Generalized Linear Models,” *Journal of the American Statistical Association*, 1990; **85**:765–769.
2. Ibrahim JG and Laud PW. “On Bayesian Analysis of Generalized Linear Models Using Jeffreys’s Prior”, *Journal of the American Statistical Association*, 1991; **86**:981–986.
3. Boulton C, Kane RL, Louis TA, and Ibrahim JG. “Forecasting The Number of Future Disabled Elderly Using Markovian and Mathematical Models”, *Journal of Clinical Epidemiology*, 1991; **44**:973–980.
4. Ibrahim JG and Weisberg S. “Incomplete Data in Generalized Linear Models With Continuous Covariates,” *Australian Journal of Statistics*. 1992; **34**:461–470.
5. Ibrahim JG and Laud PW. “A Predictive Approach to the Analysis of Designed Experiments,” *Journal of the American Statistical Association*, 1994; **89**:309–319.
6. Laud PW and Ibrahim JG. “Predictive Model Selection,” *Journal of the Royal Statistical Society, Series B*, 1995; **57**:247–262.
7. Laud, PW and Ibrahim JG, “Predictive Specification of Prior Model Probabilities in Variable Selection”, *Biometrika*, 1996; **83**:267–274.
8. Lipsitz, SR, and Ibrahim JG, “A Conditional Model for Incomplete Covariates in Parametric Regression Models”, *Biometrika*, 1996; **83**:916–922.
9. Ibrahim, JG, and Lipsitz SR, “Parameter Estimation From Incomplete Data in Binomial Regression When the Missing Data Mechanism is Nonignorable,” *Biometrics*, 1996; **52**:1071–1078.
10. Lipsitz, SR, and Ibrahim JG, “Using the EM Algorithm for Survival Data with Incomplete Categorical Covariates,” *Lifetime Data Analysis*, 1996; **2**:5–14.
11. Ibrahim, JG, and Ryan LM, “Use of Historical Control Data in Time Adjusted Trend Tests for Carcinogenicity,” *Biometrics*, 1996; **52**:213–220.
12. Ibrahim, JG, Discussion of “Quantifying and Using Expert Opinion for Variable-Selection Problems in Regression,” *Chemometrics and Intelligent Laboratory Systems*, 1996; **35**:27–28.

13. Ayash, LJ, Elias, AE, Schwartz, G, Wheeler, CW, Ibrahim, JG, Teicher, B, Warren, D, Lynch, C, Richardson, P, Schnipper, L, Frei, E, III., and Antman, K, "Double Dose-Intensive Chemotherapy with Autologous Stem Cell Support for Metastatic Breast Cancer: No Improvement in PFS by the Sequence of High-Dose Melphalan Followed by CTCb", *Journal of Clinical Oncology*, 1996; **14**:2984–2992.
14. Ibrahim JG, and Chen MH, "Predictive Variable Selection in the Multivariate Linear Model," *Biometrics*, 1997; **53**:465–478.
15. Ibrahim, JG, "On Properties of Predictive Priors in Linear Models," *The American Statistician*, 1997; **51**:333–337.
16. Weiss, RE, Wang Y, and Ibrahim, JG, "Model Selection for Repeated Measures Random Effects Models Using Bayes Factors", *Biometrics*, 1997; **53**:159–169.
17. Ewell, M, and Ibrahim, JG, "The Large Sample Distribution of the Weighted Log Rank Statistic Under General Local Alternatives," *Lifetime Data Analysis*, 1997; **3**:5–12.
18. Glencross, PM, Weinberg, JM, Ibrahim, JG, and Christiani, DC, "Loss of Lung Function Among Sheet Metal Workers: Ten Year Study," *American Journal of Industrial Medicine*, 1997; **32**:460–466.
19. Wheeler C, Eickhoff C, Elias AE, Ibrahim JG, Ayash L, McCauley M, Mauch P, Schwartz G, Eder JP, Mazanet R, Ferrara J, Rimm IJ, Bierer B, Gilliland G, Churchill HW, Ault K, Parsons S, Antman K, Schnipper L, Tepler I, Gaynes L, Frei E III, Kadin M, Antin JH, "High Dose Cyclophosphamide, Carmustine and Etoposide with Autologous Transplantation in Hodgkin's Disease: A Prognostic Model for Treatment Outcomes," *Biology of Blood and Bone Marrow Transplantation*, 1997; **3**:98–106.
20. Kleinman, K, Ibrahim, JG., and Laird, NM, "A Bayesian Framework for Intent-to-treat Analysis with Missing Data", *Biometrics*, 1998; **54**:265–278.
21. Ibrahim, JG, Ryan, LM, and Chen, MH, "Use of Historical Controls to Adjust for Covariates in Trend Tests for Binary Data", *Journal of the American Statistical Association*, 1998; **93**:1282–1293.
22. Kleinman, KP, Ibrahim, JG, "A Semi-Parametric Bayesian Approach to the Random Effects Model," *Biometrics*, 1998; **54**:921–938.
23. Ayash, LJ, Elias AE, Ibrahim JG, Schwartz G, Wheeler C, Reich E, Lynch C, Warren D, Shapiro C, Richardson P, Hurd D, Schnipper L, Frei E, Antman K, "High-Dose Multimodality Therapy with Autologous Stem Cell Support for Stage IIIB Breast Carcinoma," *Journal of Clinical Oncology*, 1998; **16**:1000–1007.
24. Lipsitz, SR, and Ibrahim JG, "Estimating Equations with Incomplete Categorical Covariates in the Cox Model", *Biometrics*, 1998; **54**:1002–1013.

25. Lipsitz, SR, Ibrahim, JG, Chen, MH, Peterson, H, “Non-ignorable Missing Covariates in Generalized Linear Models,” *Statistics in Medicine*, 1998; **18**:2435–2448.
26. Falkson, CI, Ibrahim, JG, Kirkwood, JM, Coates, AS, Atkins, MB, Blum, RH, “A Phase III Trial of Dacarbazine versus Dacarbazine with Interferon $\alpha 2b$ versus Dacarbazine with Tamoxifen (TMX) versus Dacarbazine with Interferon $\alpha 2b$ and Tamoxifen in Patients with Metastatic Malignant Melanoma: an Eastern Cooperative Oncology Group Study (E3690),” *Journal of Clinical Oncology*, 1998; **16**:1743–1751.
27. Kleinman, KP, Ibrahim, JG, “A Semi-Parametric Bayesian Approach to Generalized Linear Mixed Models,” *Statistics in Medicine*, 1998; **17**:2579–2596.
28. Hoeting, JA, and Ibrahim, JG, “Bayesian Predictive Simultaneous Variable and Transformation Selection in the Linear Model,” *Journal of Computational Statistics and Data Analysis*, 1998; **28**:87–103.
29. Elias AE, Wheeler C, Ayash LJ, Schwartz G, Ibrahim JG, ills L, McCauley M, Coleman N, Warren D, Schnipper L, Antman KH, Teicher BA, Frei, E, “Dose Escalation of the Hypoxic Cell Sensitizer Etanidazole Combined With Ifosfamide, Carboplatin, Etoposide, and Autologous Hematopoietic Stem Cell Support,” *Journal of Clinical Cancer Research*, 1998; **4**:1443–1449.
30. Ibrahim, JG, and Chen, MH, “Prior Distributions and Bayesian Computation for Proportional Hazards Models,” *Sankhya, Series B*, 1998; **60**:48–64.
31. Leong, T, Lipsitz, SR, and Ibrahim, JG, “Using missing data methods in Genetic studies with missing mutation status,” *Statistics in Medicine*, 1999; **18**:473–485.
32. Lipsitz, SR, Ibrahim, JG, and Fitzmaurice, GM, “Likelihood Methods for Incomplete Longitudinal Binary Responses with Incomplete Categorical Covariates,” *Biometrics*, 1999; **55**:214–223.
33. Ibrahim, JG, Chen, MH, and Lipsitz SR, “Monte Carlo EM for Missing Covariates in Parametric Regression Models,” *Biometrics*, 1999; **55**:591–596.
34. Chen, MH, Ibrahim, JG, and Yiannoutsos, C, “Prior Elicitation, Variable Selection and Bayesian Computation for Logistic Regression Models,” *Journal of the Royal Statistical Society, Series B*, 1999; **61**:223–242.
35. Ibrahim, JG, Lipsitz, SR, and Chen, MH, “Missing Covariates in Generalized Linear Models When the Missing Data Mechanism is Nonignorable,” *Journal of the Royal Statistical Society, Series B*, 1999; **61**:173–190.
36. Lipsitz, SR, Ibrahim, JG, and M Parzen, “A Degrees-of-Freedom Approximation for a t-statistic With Heterogeneous Variance,” *The Statistician*, 1999; **48**:495–506.

37. Elias, E, Ibrahim, JG, Skarkin, AT, Wheeler, C, McCauley, M, Ayash, L, Richardson, P, Schnipper, L, Antman, K and Frei, E, "Dose-Intensive Therapy for Limited-Stage Small-Cell Lung Cancer: Long-Term Outcome," *Journal of Clinical Oncology*, 1999; **17**:1175–1184.
38. Chen, MH, Ibrahim, JG, and Sinha, D, "A New Bayesian Model for Survival Data with a Surviving Fraction," *Journal of the American Statistical Association*, 1999; **94**:909–919.
39. Lipsitz, SR, Ibrahim, JG, and Zhao, LP, "A New Weighted Estimating Equation for Missing Covariate Data with Properties Similar to Maximum Likelihood," *Journal of the American Statistical Association*, 1999; **94**:1147–1160.
40. Hochster, H, Ibrahim, JG, O'Dwyer PJ, Liebes, L, Benson, AB, "A Phase II Study of Topotecan 21-day Infusion in Advanced Colorectal Cancer: An Eastern Cooperative Oncology Group Study (E4293)," *Cancer Therapeutics*, 1999; **2**:37–43.
41. Ibrahim, JG, Chen, MH, and MacEachern, SN, "Bayesian Variable Selection for Proportional Hazards Models," *Canadian Journal of Statistics*, 1999; **27**:701–717.
42. Chen, MH, Ibrahim, JG, and Shao, QM, "Power Prior Distributions for Generalized Linear Models," *Journal of Statistical Planning and Inference*, 2000; **84**:121–137.
43. Klar, N, Lipsitz, SR, Ibrahim, JG, "An Estimating Equations Approach for Modeling Kappa," *Biometrical Journal*, 2000; **42**:45–58.
44. Lipsitz, SR, Ibrahim, JG, and Molenberghs, G, "Using a Box-Cox Transformation in the Analysis of Longitudinal Data with Incomplete Responses," *Applied Statistics*, 2000; **49**:287–296.
45. Kim, SW, and Ibrahim, JG, "Intrinsic Bayes Factors for Generalized Linear Models," *Journal of Statistical Planning and Inference*, 2000; **87**:301–315.
46. Ibrahim, JG, Chen, MH, and Ryan, LM, "Bayesian Variable Selection for Time Series Count Data," *Statistica Sinica*, 2000; **10**:971–987.
47. Ibrahim, JG, and Chen, MH, "Power Prior Distributions for Regression Models," *Statistical Science*, 2000; **15**:46–60.
48. Lipsitz, SR, Molenberghs, G, Fitzmaurice, G, and Ibrahim, JG, "GEE With Gaussian Estimation of the Correlations When Data are Incomplete," *Biometrics*, 2000; **56**:528–536.
49. Kirkwood, JM, Ibrahim, JG, Sondak, VK, Richards, J, Flaherty, LE, Ernstoff, MS, Smith, TJ, Rao, U, Steele, M, and Blum, RH, "The Role of High- and Low-Dose Interferon Alfa-2b in High-Risk Melanoma: First Analysis of Intergroup Trial E1690/S9111/C9190," *Journal of Clinical Oncology*, 2000; **18**:2444–2458.

50. Chen, MH, and Ibrahim, JG, “Bayesian Predictive Inference for Time Series Count Data,” *Biometrics*, 2000; **56**:678–685.
51. Kim, SW, and Ibrahim, JG, “On Bayesian Inference for Parametric Proportional Hazards Models Using Noninformative Priors,” *Lifetime Data Analysis*, 2000; **6**:331–341.
52. Lipsitz, SR, and Ibrahim, JG, “Estimation with Correlated Censored Survival Data with Missing Covariates,” *Biostatistics*, 2000; **1**:315–327.
53. Bernardo, MVP, and Ibrahim, JG, “Group Sequential Designs for Cure Rate Models With Early Stopping in Favor of the Null Hypothesis,” *Statistics in Medicine*, 2000; **19**:3023–3035.
54. Manola, J, Atkins, M, Ibrahim, JG, Borden, E, Blum, R, Cunningham, T, Golumb, F, Kirkwood, JM, “Prognostic Factors in Metastatic Melanoma: A Pooled Analysis of Eastern Cooperative Oncology Group Trials,” *Journal of Clinical Oncology*, 2000; **18**:3782–3793.
55. Frank, DA, Meuse, J, Hirsch, D, Ibrahim, JG, and Abbeele, A, “The Treatment and Outcome of Cancer Patients with Thromboses on Central Venous Catheters,” *Journal of Thrombosis and Thrombolysis*, 2000; **10**:271–275.
56. Legedza, ATR, and Ibrahim, JG “Longitudinal Design for Phase I Clinical Trials Using the Continual Reassessment Method,” *Controlled Clinical Trials*, 2000; **21**:574–588.
57. Fitzmaurice, GM, Lipsitz, SR, Molenberghs, G, and Ibrahim, JG, “Bias in Estimating Association Parameters for Longitudinal Binary Responses with Drop-outs,” *Biometrics*, 2001; **57**:15-21.
58. Legedza, ATR, Ibrahim, JG, “Heterogeneity in Phase I Clinical Trials: Prior Elicitation and Computation Using the Continual Reassessment Method,” *Statistics in Medicine*, 2001; **20**:867–882.
59. Ibrahim, JG, Chen, MH, and Sinha, D, “Criterion Based Methods for Bayesian Model Assessment,” *Statistica Sinica*, 2001; **11**:419–443.
60. Ibrahim, JG, Chen, MH, and Lipsitz, SR, “Missing Responses in Generalized Linear Mixed Models When The Missing Data Mechanism is Nonignorable,” *Biometrika*, 2001; **88**:551–564.
61. Chen, MH, and Ibrahim, JG, “Maximum Likelihood Methods for Cure Rate Models with Missing Covariates,” *Biometrics*, 2001; **57**:43–52.
62. Leong, T, Lipsitz, SR, and Ibrahim, JG, “Incomplete Covariates in the Cox model With Applications to Biologic Marker Data,” *Applied Statistics*, 2001; **50**:467–484.
63. Ibrahim, JG, Lipsitz, SR, and Horton N, “Using Auxiliary Data for Parameter Estimation with Nonignorably Missing Outcomes,” *Applied Statistics*, 2001; **50**:361–373.

64. Elias AD, Richardson P, Avigan D, Ibrahim J, Joyce R, Demetri G, Levine J, Warren D, Arthur T, Hieng S, Reich E, Frei E III, Ayash LA., "Short Course of Induction Chemotherapy Followed by Two Cycles of High-dose Chemotherapy With Stem Cell Rescue for Chemotherapy-naïve Metastatic Breast Cancer," *Bone Marrow Transplantation*, 2001; **27**:269–278.
65. Wheeler C, Khurshid A, Ibrahim J, Elias A, Mauch P, Ault K, Antin J, "Incidence of Post Transplant Myelodysplasia/acute Leukemia in Non-Hodgkin's Lymphoma Patients Compared with Hodgkin's Disease Patients Undergoing Autologous Transplantation Following Cyclophosphamide, Carmustine and Etoposide (CBV)," *Leukemia and Lymphoma*, 2001; **40**:499–509.
66. Elias AD, Richardson P, Avigan D, Ibrahim JG, Joyce R, McDermott D, Levine J, Warren D, McCauley M, Wheeler C, Frei E III, "A short course of induction Chemotherapy Followed by Two Cycles of High-dose Chemotherapy with Stem Cell Rescue for Chemotherapy Naïve Metastatic Breast Cancer: Sequential Phase I/II Studies," *Bone Marrow Transplantation*, 2001; **28**:447–454.
67. Herring, AH, and Ibrahim, JG, "Likelihood-based Methods for Missing Covariates in the Cox Proportional Hazards Model," *Journal of the American Statistical Association*, 2001; **96**:292–302.
68. Lipsitz, SR, Parzen, M, Molenberghs, G, and Ibrahim, JG, "Testing for Bias in Weighted Estimating Equations," *Biostatistics*, 2001; **2**:295–307.
69. Ibrahim, JG, Chen, MH, and Sinha, D, "Bayesian Semi-parametric Models for Survival Data with a Cure Fraction", *Biometrics*, 2001; **57**:383–388.
70. Kirkwood, JM, Ibrahim, JG, Lawson, DH, Atkins, MB, Agarwala, SS, Collins, K, Mascari, R, Morrissey, DM, Chapman, PB, "High-dose Interferon alfa-2b Does not Diminish Antibody Response to GM2 Vaccination, in Patients with Resected Melanoma: Results of the Multicenter ECOG Phase II Trial E2696," *Journal of Clinical Oncology*, 2001; **19**:1430–1436.
71. Chen, MH and Ibrahim, JG, "Bayesian Model Comparisons for Survival Data with a Cure Fraction," *Monographs of Official Statistics: Bayesian Methods with Applications to Science, Policy and Official Statistics*, 2001; 81–90.
72. Smith, TJ, Lin, YS, Mezzetti, M, Bois, FY, Kelsey, K, Ibrahim, JG, "Genetic and Dietary Factors Affecting Human Metabolism of 1,3 Butadiene," *Chemico-Biological Interactions*, 2001; **136-137**:407–428.
73. Kirkwood, JM, Ibrahim, JG, Sosman, JA, Sondak, VK, Agarwala, SS, Ernstoff, MS, Rao, U, "High-Dose Interferon Alfa-2b Significantly Prolonged Relapse-Free and Overall Survival Compared with the GM2-KLH/QS-21 Vaccine in Patients with Resected Stage IIB-III Melanoma: Results of Intergroup Trial E1694/S9512/C509801," *Journal of Clinical Oncology*, 2001; **19**:2370–2380.

74. Lipsitz, SR, Leong, T, Ibrahim, JG, and Lipshultz, S, "A Partial Correlation Coefficient for Multivariate Normal Repeated Measures Data," *The Statistician*, 2001; **50**:87–95.
75. Lipsitz, SR, Williamson, J, Klar, N, and Ibrahim, JG, "A Simple Method for Estimating a Regression Model for Kappa Between a Pair of Raters," *Journal of the Royal Statistical Society, Series A*, 2001; **164**:449–465.
76. Kirkwood, JM, Ibrahim, JG, Sondak, M, Ernstoff, M, and Ross, M, "Interferon alfa-2a for melanoma metastases," *The Lancet*, 2002; **359**: 978–979.
77. Chen, MH, Ibrahim, JG, and Sinha, D, "Bayesian Inference For Multivariate Survival Data With a Surviving Fraction," *Journal of Multivariate Analysis*, 2002; **80**:101–126.
78. Parzen, M, Lipsitz, SR, Ibrahim, JG, and Klar, N, "An Estimate of the Odds Ratio That Always Exists," *Journal of Computational and Graphical Statistics*, 2002; **11**:420–436.
79. Ibrahim, JG, Chen, MH, and Lipsitz, SR, "Bayesian Methods for Generalized Linear Models With Covariates Missing at Random," *Canadian Journal of Statistics*, 2002; **30**:55–78.
80. Chen, MH, Ibrahim, JG, and Lipsitz, SR, "Bayesian Methods for Missing Covariates in Cure Rate Models," *Lifetime Data Analysis*, 2002; **8**:117–146.
81. Chen, MH, Harrington, DP, and Ibrahim, JG, "Bayesian Cure Rate Models for Malignant Melanoma: A Case Study of Eastern Cooperative Oncology Group Trial E1690", *Applied Statistics*, 2002; **51**:135–150.
82. Herring, AH, and Ibrahim, JG, "Maximum Likelihood Estimation in Random Effects Cure Rate Models with Nonignorably Missing Covariates," *Biostatistics*, 2002; **3**:387–405.
83. Ibrahim, JG, Chen, MH, and Gray, RJ, "Bayesian Models for Gene Expression with DNA Microarray Data," *Journal of the American Statistical Association*, 2002; **97**:88–99.
84. Parzen, M, Lipsitz, SR, Ibrahim, JG, Lipshultz, S, "A Weighted Estimating Equation for Linear Regression with Missing Covariate Data," *Statistics in Medicine*, 2002; **21**:2421–2436.
85. Herring, AH, Ibrahim, JG, and Lipsitz, SR, "Frailty Models With Missing Covariates," *Biometrics*, 2002; **58**:98–109.
86. Elias, AD, Ibrahim, JG, Richardson, P, Avigan, D, Joyce, R, Reich, E, McCauley, M, Wheller, C, Frei E III, "The Impact of Induction Duration and the Number of High Dose Cycles on the Long-Term Survival of Women With Metastatic Breast Cancer Treated with High Dose Chemotherapy with Stem Cell Rescue: An Analysis of Sequential Phase I/II Trials From the Dana-Farber/Beth Israel STAMP Program," *Biology of Bone Marrow Transplantation*, 2002; **28**:198–205.

87. Rao, UNM, Ibrahim, JG, Flaherty, LE, Richards, J, Kirkwood, JM, “Implications of Microscopic Satellites of the Primary and Extracapsular Lymph Node Spread in Patients with High Risk Melanoma: Pathologic Corollary of Intergroup Trial E1690,” *Journal of Clinical Oncology*, 2002; **20**:2053–2057.
88. Sinha, D, Ibrahim, JG, and Chen, MH, “Models for Survival Data From Cancer Prevention Studies,” *Journal of the Royal Statistical Society, Series B*, 2002; **63**:467–477.
89. Lipsitz, SR, Fitzmaurice, GM, Ibrahim, JG, Gelber, R, and Lipshultz, S, “Parameter Estimation in Longitudinal Studies With Outcome-dependent Follow-up,” *Biometrics*, 2002; **58**:621–630.
90. Kirkwood, JM, Richards, T, Zarour, HM, Sosman, J, Ernstoff, M, Whiteside, TL, Ibrahim, JG, Blum, R, Wiend, S, Mascari, R, “Immunomodulatory Effects of High- and Low-dose IFN $\alpha 2b$ in Patients with High-risk Resected Melanoma: The E2690 Laboratory Corollary of Intergroup Adjuvant Trial E1690,” *Cancer*, 2002; **95**:1101–1112.
91. French, JL, and Ibrahim, JG, “Bayesian Methods for a Three-state Model for Rodent Carcinogenicity Studies,” *Biometrics*, 2002; **58**:906–916.
92. Glover, DG, Ibrahim, JG, Kirkwood, JM, Glick, J, Karp, D, Stewart, J, Ewell, M, and Borden, E, “Phase III Randomized Trial of Cis-Platinum and WR-2721 Versus Cis-Platinum Alone for Metastatic Melanoma: An Eastern Cooperative Oncology Group Study (E1686),” *Melanoma Research*, 2003; **13**:1–8.
93. Ibrahim, JG, Chen, MH, and Sinha, D, “On Optimality Properties of the Power Prior,” *Journal of the American Statistical Association*, 2003; **98**:204–213.
94. Chen, MH, and Ibrahim, JG, “Conjugate Priors for Generalized Linear Models,” *Statistica Sinica*, 2003; **13**:461–476.
95. Chen, MH, Ibrahim, JG, Shao, QM, and Weiss, RE “Prior Elicitation for Model Selection and Estimation in Generalized Linear Mixed Models,” *Journal of Statistical Planning and Inference*, 2003; **111**:57–76.
96. Brown, ER, and Ibrahim, JG, “A Bayesian Semiparametric Joint Hierarchical Model for Longitudinal and Survival Data,” *Biometrics*, 2003; **59**:221–228.
97. Brown, ER, and Ibrahim, JG, “Bayesian Approaches to Joint Cure Rate and Longitudinal Models with Applications to Cancer Vaccine Trials,” *Biometrics*, 2003; **59**:686–693.
98. Tadesse, MG, Ibrahim, JG, and Mutter, G, “Identification of Differentially Expressed Genes in High-density Oligoneucleotide Arrays Accounting for the Quantification Limits of the Technology,” *Biometrics*, 2003; **59**:542–554.

99. Mezzetti, M, Ibrahim, JG, Bois, FY, Ryan, LM, Ngo, L, and Smith, TJ, "Bayesian Compartmental Model for the Evaluation of 1,3 Butadiene Metabolism," *Applied Statistics*, 2003; **52**:291–305.
100. Sinha, D, Ibrahim, JG, and Chen, MH, "A Bayesian Justification of Cox's Partial Likelihood," *Biometrika*, 2003; **90**:629–641.
101. Stubbendick, AL and Ibrahim, JG, "Maximum Likelihood Methods for Nonignorable Responses and Covariates in Random Effects Models," *Biometrics*, 2003; **59**:1140–1150.
102. Tsodikov, AD, Ibrahim, JG, Yakovlev, AY, "Estimating Cure Rates from Survival Data: An Alternative to Two-Component Mixture Models," *Journal of the American Statistical Association*, 2003; **98**:1063–1078.
103. Herring, AH, Ibrahim, JG, and Lipsitz, SR, "Nonignorably Missing Covariate Data in Survival Analysis: A Case Study of an International Breast Cancer Study Group Trial," *Applied Statistics*, 2004; **53**:293–310.
104. Lipsitz, SR, Parzen, M, Natarajan, S, Ibrahim, JG, Fitzmaurice, GM, "Generalized Linear Models With a Coarsened Covariate", *Applied Statistics*, 2004; **53**:279–292.
105. Chen, MH, Dey, DK, Ibrahim, JG, "Bayesian Criterion Based Model Assessment for Categorical Data," *Biometrika*, 2004; **91**:45–63.
106. Ibrahim, JG, Chen, MH, and Sinha, D, "Bayesian Methods for Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Vaccine Studies," *Statistica Sinica*, 2004; **14**:863–883.
107. Chen, MH, Ibrahim, JG, and Shao QM, "Propriety of the Posterior Distribution and Existence of the Maximum Likelihood Estimator for Regression Models with Covariates Missing at Random," *Journal of the American Statistical Association*, 2004; **99**:421–438.
108. Kirkwood, JM, Manola, J, Ibrahim, JG, Sondak, V, Ernstoff, MS, and Rao, U, "A Pooled Analysis of Eastern Cooperative Oncology Group and Intergroup Trials of Adjuvant High-Dose Interferon for Melanoma," *Clinical Cancer Research*, 2004; **10**:1670–1677.
109. Chen, MH, Ibrahim, JG, and Sinha, D, "A New Joint Model for Longitudinal and Survival Data with a Cure Fraction," *Journal of Multivariate Analysis*, 2004; **91**:18–34.
110. Lipsitz SR, Molenberghs G, Fitzmaurice GM and Ibrahim JG, "A Protective Estimator for Linear Regression with Nonignorably Missing Gaussian Outcomes," *Statistical Modelling*, 2004; **4**:3–17.
111. Yin, G, and Ibrahim, JG, "A Class of Bayesian Shared Gamma Frailty Models with Multivariate Failure Time Data," *Biometrics*, 2005; **61**:208–216.
112. Brown, ER, Ibrahim, JG, and DeGruttola, V, "A Flexible B-Spline Model for Multiple Longitudinal Biomarkers and Survival," *Biometrics*, 2005; **61**:64–73.

113. Tadesse, M, Ibrahim, JG, Vannucci, M, and Gentleman, R, "Wavelet Thresholding with Bayesian False Discovery Rate Control," *Biometrics*, 2005; **61**:25–35.
114. Yin, G, and Ibrahim, JG, "Bayesian Frailty Models Based on Box-Cox Transformed Hazards," *Statistica Sinica*, 2005; **15**:781–794.
115. Zeng, D, Yin, G, and Ibrahim, JG, "Inference for a Class of Transformed Hazards Models," *Journal of the American Statistical Association*, 2005; **100**:1000–1008.
116. Ibrahim, JG, Chen, MH, Lipsitz, SR, and Herring, AH, "Missing Data Methods for Generalized Linear Models: A Comparative Review," *Journal of the American Statistical Association*, 2005; **100**:332–346.
117. Tadesse, MG, Ibrahim, JG, Gentleman, R, Chiaretti, S, Ritz, J, and Foa, R, "Bayesian Error-in-Variable Survival Model for the Analysis of GeneChip Arrays," *Biometrics*, 2005; **61**:488–497.
118. Yin, G, and Ibrahim, JG, "A General Class of Bayesian Survival Models with Zero and Non-zero Cure Fractions", *Biometrics*, 2005; **61**:403–412.
119. Huang, L, Chen, MH, and Ibrahim, JG, "Bayesian Analysis for Generalized Linear Models with Nonignorably Missing Covariates," *Biometrics*, 2005; **61**:767–780.
120. Naskar, M, Das, K, and Ibrahim, JG, "A Semiparametric Mixture Model for Analyzing Clustered Competing Risks Data," *Biometrics*, 2005; **61**:729–737.
121. Yin, G, and Ibrahim, JG, "Cure Rate Models: A Unified Approach," *Canadian Journal of Statistics*, 2005; **33**:559–570.
122. Blanton, HL, Radford, SJ, McMahan, S, Kearney, HM, Ibrahim, JG, and Sekelsky, J, "REC, Drosophila MCM8, Drives Formation of Meiotic Crossovers," *PLoS Genetics*, 2005; **1**:343–354.
123. Baccaglioni, L, Schoenbach, VJ, Poole, CL, McKaig, RG, Ibrahim, JG, Baric, RS, and Wiesen, C, "Association Between Herpes Simplex Virus Type I and Helicobacter Pylori in U.S. Adolescents", *Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontology*, 2006; **101**:63–69.
124. Chen, MH, and Ibrahim, JG, "The Relationship Between the Power Prior and Hierarchical Models," *Bayesian Analysis*, 2006; **1**:551–574.
125. Stubbendick, AL, and Ibrahim, JG, "Likelihood-based Inference with Nonignorable Missing Responses and Covariates in Models for Discrete Longitudinal Data," *Statistica Sinica*, 2006; **16**:1143–1167.
126. Chen, Q, and Ibrahim, JG, "Semiparametric Models for Missing Covariate and Response Data in Regression Models," *Biometrics*, 2006; **62**:177–184.

127. Nelson, KP, Lipsitz, SR, Fitzmaurice, GM, Ibrahim, JG, Parzen, M, and Strawderman, R, "Use of the Probability Integral Transformation to Fit Nonlinear Mixed-effects Models with Non-normal Random Effects," *Journal of Computational and Graphical Statistics*, 2006; **15**:39–57.
128. Morales, KH, Ibrahim, JG, Chen, CJ, and Ryan, LM, "Bayesian Model Averaging with Applications to Benchmark Dose Estimation for Arsenic in Drinking Water," *Journal of the American Statistical Association*, 2006; **101**:9–17.
129. Zeng, D, Yin, G, and Ibrahim, JG, "Semiparametric Transformation Models for Survival Data with a Cure Fraction," *Journal of the American Statistical Association*, 2006; **101**:670–684.
130. Chi, Y, and Ibrahim, JG, "Joint Models for Multivariate Longitudinal and Multivariate Survival Data," *Biometrics*, 2006; **62**:432–445.
131. Fitzmaurice, GM, Lipsitz, SR, Ibrahim, JG, Gelber, R, and Lipshultz, S, "Estimation in Regression Models for Longitudinal Binary Data with Outcome-Dependent Follow-up," *Biostatistics*, 2006; **7**:469–485.
132. Chen, MH, Ibrahim, JG, and Shao, QM, "Posterior Propriety and Computation for the Cox Regression Model with Applications to Missing Covariates," *Biometrika*, 2006; **93**:791–807.
133. Gupta, M and Ibrahim, JG, "Bayesian Methods for Some Missing Data Problems in Functional Genomics," *International Society for Bayesian Analysis Bulletin*, 2006; **13**:6–10.
134. Parzen M, Lipsitz SR, Fitzmaurice GM, Ibrahim JG, Troxel A, "Pseudo-likelihood Methods for Longitudinal Binary Data with Non-ignorable Missing Responses and Covariates", 2006; *Statistics in Medicine* **30**:2784–2796.
135. Chi, Y, and Ibrahim, JG, "A New Class of Joint Models for Longitudinal and Survival Data Accomodating Zero and Non-Zero Cure Fractions: A Case Study of an International Breast Cancer Study Group Trial," *Statistica Sinica*, 2007; **17**:445–462.
136. Parzen, M, Lipsitz, SR, Fitzmaurice, G, Ibrahim, JG, Troxel, A, and Molenberghs, G, "Pseudo-likelihood Methods for the Analysis of Longitudinal Binary Data Subject to Nonignorable Non-monotone Missingness," *Journal of Data Science*, 2007; **5**:1–22.
137. Johnson, BA, Herring, AH, Ibrahim, JG, and Siega-Riz, AM "Structured Measurement Error in Nutritional Epidemiology: Applications in the Pregnancy, Infection, and Nutrition (PIN) Study," *Journal of the American Statistical Association*, 2007; **102**:856–866.
138. Chi, Y, Ibrahim, JG, Bissahoyo, A, and Threadgill, DW "Bayesian Hierarchical Modeling for Time Course Microarray Experiments," *Biometrics*, 2007; **63**:496–504.

139. Gupta, M and Ibrahim, JG “Variable Selection in Regression Mixture Modeling for the Discovery of Gene Regulatory Networks,” *Journal of the American Statistical Association*, 2007; **102**:867–880.
140. Gelfond, JAL, Ibrahim, JG, and Zou, F “A Proximity Model for Expression Trait Loci Detection,” *Biometrics*, 2007; **63**:1108–1116.
141. Zhu, H, Ibrahim, JG, Lee, S, and Zhang, H “Perturbation Selection and Influence Measures in Local Influence Analysis” *The Annals of Statistics*, 2007; **35**:2565–2588.
142. Fitzmaurice, GM, Lipsitz, SR, and Ibrahim, JG “A Note On Permutation Tests for Variance Components in Multilevel Generalized Linear Mixed Models,” *Biometrics*, 2007; **63**:942–946.
143. Zhu, H, Zhang, H, Ibrahim, JG, Peterson, BS “Statistical Analysis of Diffusion Tensors in Diffusion-weighted Magnetic Image Resonance Data,” *Journal of the American Statistical Association* (with discussion), 2007; **102**:1085–1113.
144. Zhu, H, Ibrahim, JG, Tang, N, Rowe, DB, Hao, X, Bansal, R, and Peterson, BS “A Statistical Analysis of Brain Morphology Using Wild Bootstrapping,” *IEEE Transactions on Medical Imaging*, 2007; **26**:954–966.
145. Gupta, M, Qu, P, and Ibrahim, JG, “A Temporal Hidden Markov Regression Model for the Analysis of Gene Regulatory Networks,” *Biostatistics*, 2007; **8**:805–820.
146. Beydoun, MA, Kaufman, JS, Ibrahim, JG, Blanchette, D, and Satia, JA, “Measurement Error Adjustment in Essential Fatty Acid Intake from a Food Frequency questionnaire: Alternative approaches,” *BMC Medical Research Methodology*, 2007; **7**.
147. Ibrahim, JG, and Zhu, H, Invited Comment on “Implementation of Estimating-functions based Inference Procedures with MCMC Samplers,” *Journal of the American Statistical Association*, 2007; **102**:893–896.
148. Hoskins, JM, Goldberg, RM, Qu, P, Ibrahim, JG, and McLeod, HL “UGT1A1*28 and irinotecan-induced neutropenia: dose matters,” *Journal of the National Cancer Institute*, 2007; **99**:1290–1295.
149. Chen, Q, Zeng, D, and Ibrahim, JG, “Sieve Maximum Likelihood Estimation for Regression Models with Covariates Missing at Random,” *Journal of the American Statistical Association*, 2007; **102**:1309–1317.
150. Woods, CG, Oksana, O, Bradford, BU, Ross, PK, Burns, AM, Cunningham, ML, Qu, P, Ibrahim, JG, and Rusyn, I, “Time-course investigation of PPAR α - and Kupffer cell-dependent effects of WY-14,643 in mouse liver using microarray gene expression.” *Journal of Toxicology and Applied Pharmacology*, 2007; **225**:267–277.

151. Kaufmann, WK, Nevis, K, Qu, P, Ibrahim, JG, Zhou T, Zhou, Y, Simpson, DA, Helms, J, Cordeiro-Stone, M, Moore, D, Thomas, NE, Hao, H, Liu, Z, Shields, JM, Scott, G, and Sharpless, NE, “Defective Cell Cycle Checkpoint Function in Melanoma is Associated With Altered Patterns of Gene Expression,” *Journal of Investigative Dermatology*, 2008; **128**:175–187.
152. Chen, MH, Ibrahim, JG, and Chi, Y “A New Class of Mixture Models for Differential Gene Expression in DNA Microarray Data,” *Journal of Statistical Planning and Inference*, 2008; **138**:387–404.
153. Beydoun, MA, Kaufman, JS, Sloane, P, Heiss, G, and Ibrahim, JG, “ $\omega - 3$ Fatty Acids, Hypertension, and Risk of Cognitive Decline Among Older Adults in the Atherosclerosis Risk in Communities (ARIC) Study,” *Public Health Nutrition*, 2008; **11**:17–29.
154. Sinha, D, Maiti, T, and Ibrahim, JG, Ouyang, B, “Current Methods for Recurrent Events Data with Dependent Termination: A Bayesian Perspective,” *Journal of the American Statistical Association*, 2008; **103**:866–878.
155. Chen, Q, Ibrahim, JG, Chen, MH, and Senchaudhuri, P, “Theory and Inference for Regression Models with Missing Responses and Covariates,” *Journal of Multivariate Analysis*, 2008; **99**:1302–1331.
156. Zhu, H, Tang, N, Ibrahim, JG, and Zhang, H, “Diagnostic Measures for Empirical Likelihood of General Estimating Equations,” *Biometrika*, 2008; **95**:489–507.
157. Chen, MH, Huang, L, Ibrahim, JG, and Kim, S, “Bayesian Variable Selection and Computation for Generalized Linear Models with Conjugate Priors,” *Bayesian Analysis*, 2008; **3**:585–614.
158. Yuan, Y, Zhu, H, Ibrahim, JG, Lin, Weili, and Peterson, B, “A Note on the Validity of Statistical Bootstrapping for Estimating the Uncertainty of Tensor Parameters in Diffusion Tensor Images,” *IEEE Transactions on Medical Imaging*, 2008; **27**:1506–1514.
159. Ibrahim, JG, Zhu, H, Tang, N, “Model Selection Criteria for Missing Data Problems Using the EM Algorithm,” *Journal of the American Statistical Association*, 2008; **103**:1648–1658.
160. Chen, MH, Ibrahim, JG, and Kim, S, “Properties and Implementation of Jeffreys’s Prior in Binomial Regression Models,” *Journal of the American Statistical Association*, 2008; **103**:1659–1664.
161. Ibrahim, JG, Chen, MH, and Kim, S, “Bayesian Variable Selection for the Cox Regression Model with Missing Covariates,” *Lifetime Data Analysis*, 2008; **14**:496–520.
162. Qu, P, Chu, H, Ibrahim, JG, Peacock, J, Shen, XJ, Tepper, J, Sandler, RS, and Keku, TO, “Statistical Strategies to Improve the Efficiency of Molecular Studies of Colorectal Cancer Prognosis,” *British Journal of Cancer*, 2008; **99**:2001–2005.

163. Vinikoor, LC, Schroeder, JC, Millikan, RC, Satia, JA, Martin, CF, Ibrahim, JG, Galanko, JA, and Sandler, RS, "Consumption of *Trans* Fatty Acid and its Association with Colorectal Adenomas," *American Journal of Epidemiology*, 2008; **168**:289–297.
164. Lipsitz, SR, Fitzmaurice, GM, Ibrahim, JG, Sinha, D, Parzen, M, and Lipshultz, S, "Joint Generalized Estimating Equations for Multivariate Longitudinal Binary Outcomes with Missing Data: An Application to Acquired Immune Deficiency Syndrome Data," *Journal of the Royal Statistical Society, Series A*, 2009; **173**:3–20.
165. Gupta, M, and Ibrahim, JG, "An Information Matrix Prior for Bayesian Analysis in Generalized Linear Models with High Dimensional Data," *Statistica Sinica*, 2009; **19**:1641–1664.
166. Gelfond, JAL, Gupta, M, and Ibrahim, JG, "A Bayesian Hidden Markov Model for Motif Discovery Through Joint Modeling of Genomic Sequence and ChIP-Chip Data," *Biometrics*, 2009; **65**:1087–1095.
167. Shi, X, Zhu, H, Ibrahim, JG, "Local Influence for Generalized Linear Models with Missing Covariates," *Biometrics*, 2009; **65**:1164–1174.
168. Cho, H, Ibrahim, JG, Sinha, D, and Zhu, H, "Bayesian Case Influence Diagnostics for Survival Models," *Biometrics*, 2009; **65**, 116–124.
169. Zeng, D, Chen, Q, and Ibrahim, JG, "Transformation Models with Gamma-Frailty for Multivariate Survival Times," *Biometrika*, 2009; **96**, 263–276.
170. Zhu, H, Li, Y, Ibrahim, JG, Shi, X, and An, H, "Regression Models for Identifying Noise Sources in Magnetic Resonance Images," *Journal of the American Statistical Association*, 2009; **104**, 623–637.
171. Cheng, F, Hartmann, S, Gupta, M, Ibrahim, JG, and Vision, TJ, "A Hierarchical Model for Incomplete Alignments in Phylogenetic Inference," *Bioinformatics*, 2009; **25**:592–598.
172. Chen, MH, Ibrahim, JG, and Shao, QM, "Maximum Likelihood Inference for the Cox Regression Model with Applications to Missing Covariates," *Journal of Multivariate Analysis*, 2009; **100**:2018–2030.
173. Zhu, H, Ibrahim, JG, and Shi, X, "Diagnostic Measures for Generalized Linear Models with Missing Covariates," *Scandinavian Journal of Statistics*, 2009; **36**:686–712.
174. Zhu, H, Chen, Y, Ibrahim, JG, Li, Y, Hall, C, and Lin, W, "Intrinsic Regression Models for Positive-definite Matrices with Applications to Diffusion Tensor Imaging," *Journal of the American Statistical Association*, 2009; **104**:1203–1212.
175. Tran, N, Qu, P, Simpson, DA, Boltz, L, Ibrahim, JG, and Kaufmann, WK, "In-silico Construction of a Protein Interaction Landscape for Nucleotide Excision Repair," *Cell Biochemistry and Biophysics*, 2009; **53**:101–114.

176. Ibrahim, JG, and Molenberghs, G, “Missing Data Methods in Longitudinal Studies: A Review,” *Test* (with discussion), 2009; **18**:1–75.
177. Liu, Y, Sanoff, HK, Cho, H, Burd, CE, Torrice, C, Mohlke, KL, Ibrahim, JG, Thomas, NE, and Sharpless, NE, “INK4/ARF Transcript Expression is Associated with Chromosome 9p21 Variants Linked to Atherosclerosis,” *PLoS ONE*, April, 2009; **vol. 4, issue 4**:1–5.
178. Vinikoor LC, Satia JA, Schroeder JC, Millikan RC, Ibrahim JG, Martin CF, Galanko JA, Sandler RS, “The Association between Trans Fatty Acid Consumption and Colon Cancer among Whites and African Americans in the North Carolina Colon Cancer Study I”, *Nutrition and Cancer*, 2009; **61**:427–436.
179. Liu, Y, Sanoff, HK, Cho, H, Burd, CE, Torrice, C, Mohlke, KL, Ibrahim, JG, Thomas, NE, and Sharpless, NE, “Expression of $p16^{INK4a}$ in Peripheral Blood T-cells is a Biomarker of Human Molecular Age,” *Aging Cell*, 2009; **8**:439–448.
180. Chu, H, Cole, SR, Wei, Y, and Ibrahim, JG, “Estimation and Inference for Case-control Studies with Multiple Non-gold Standard Exposure Assessments: with an Occupational Health Application,” *Biostatistics*, 2009; **10**:591–602.
181. Vinikoor, LC, Millikan, RC, Satia, JA, Schroeder, JC, Martin, CF, Ibrahim, JG, Sandler, RS, “Trans Fatty Acid Consumption and its Association with Distal Colorectal Cancer in the North Carolina Colon Cancer Study II,” *Cancer Causes and Control*, 2010; **21**:171–180.
182. Yanni, SB, Annaert, PP, Augustijns, Ibrahim, JG, Benjamin, DK, Thakker, DR, “*In Vitro* Hepatic Metabolism Explains Higher Clearance of Voriconazole in Children *versus* Adults: Role of CYP2C19 and FMO3,” *Drug Metabolism and Disposition*, 2010; **38**:25–31.
183. Zou, F, Huang, H, and Ibrahim, JG, “A Semiparametric Bayesian Approach for Estimating the Gene Expression Distribution,” *Journal of Biopharmaceutical Statistics*, 2010; **20**:267–280.
184. Garcia, RI, Ibrahim, JG, and Zhu, H, “Variable Selection for Regression Models with Missing Data,” *Statistica Sinica*, 2010; **20**:149–166.
185. Chu, H, Zhou, Y, Cole, SR, Ibrahim, JG, “On the Estimation of Disease Prevalence by Latent Class Models for Screening Studies Using Two Screening Tests with Categorical Disease Status Verified in Test Positives Only,” *Statistics in Medicine*, 2010; **29**:1206–1218.
186. Sun, W, Ibrahim, JG, Zou, F, “Genome-wide Multiple Loci Mapping in Experimental Crosses by the Iterative Adaptive Penalized Regression,” *Genetics*, 2010; **185**:349–359.

187. Garcia, RI, Ibrahim, JG, and Zhu, H, "Variable Selection for the Cox Regression Model with Covariates Missing at Random," *Biometrics*, 2010; **66**:97–104.
188. Ibrahim, JG, Chu, H, and Chen, L, "Basic Concepts and Methods for Joint Models of Longitudinal and Survival Data," *Journal of Clinical Oncology*, 2010; **28**:2796–2801.
189. Troxel, AB, Lipsitz, SR, Fitzmaurice, GM, Ibrahim, JG, Sinha, D, and Molenberghs, G, "A Weighted Combination of Pseudo-likelihood Estimators for Longitudinal Binary Data Subject to Non-ignorable Non-monotone Missingness," *Statistics in Medicine*, 2010; **29**:1511–1521.
190. Bradshaw, PT, Ibrahim, JG, and Gammon, MD, "A proportional hazards regression model with non-ignorably missing time-varying covariates," *Statistics in Medicine*, 2010; **29**:3017–3029.
191. Chastain, PD, Nakamura, J, Rao, S, Chu, H, Ibrahim, JG, Swenberg, J, and Kaufman, DG, "Abasic Sites Preferentially form at Regions Undergoing DNA Replication," *FASEB Journal*, 2010; **24**:3674–3680.
192. Watson, RG, Muhalel, F, Thorne, LB, Yu, J, O'Neil, BH, Hoskins, JM, Meyers, MO, Deal, AM, Ibrahim, JG, Hudson, ML, Walko, CM, McLeod, HL, Auman, JT, "Amplification of Thymidylate Synthetase in Metastatic Colorectal Cancer Patients Pretreated with 5-Fluorouracil-based Chemotherapy," *European Journal of Cancer*, 2010; **46**:3358–3364.
193. Parzen, N, Ghosh, S, Lipsitz, SR, Sinha, D, Fitzmaurice, GM, Mallick, BK, and Ibrahim, JG, "A Generalized Linear Mixed Model for Longitudinal Binary Data with a Marginal Logit Link Function," *Annals of Applied Statistics*, 2011; **5**:449–467.
194. Ibrahim, JG, and Zhu, H, Garcia, RI, and Guo, R, "Fixed and Random Effects Selection in Mixed Effects Models," *Biometrics*, 2011; **67**:495–503.
195. Sinha, SK, Troxel, AB, Lipsitz, SR, Sinha, D, Fitzmaurice, GM, Molenberghs, G, and Ibrahim, JG, "A Bivariate Pseudo-likelihood for Incomplete Longitudinal Binary Data with Nonignorable Non-monotone Missingness," *Biometrics*, 2011; **67**:1119–1126.
196. Ibrahim, JG, Zhu, H, and Tang, N, "Bayesian Local Influence for Survival Models," *Lifetime Data Analysis* (with discussion), 2011; **17**:43–70.
197. Li, Y, Zhu, H, Shen, D, Lin, W, Gilmore, JH, Ibrahim, JG, "Multiscale Adaptive Regression Models," *Journal of the Royal Statistical Society, Series B*, 2011; **73**:559–578.
198. Chen, M.-H, Ibrahim, JG, Lam, P, Yu, A, Zhang, Y, "Bayesian Design of Non-inferiority Trials for Medical Devices Using Historical Data," *Biometrics*, 2011; **67**:1163–1170.
199. Zhu, H, Ibrahim, JG, Tang, N, "Bayesian Influence Analysis: A Geometric Approach," *Biometrika*, 2011; **98**:307–323.

200. Chen, L, Ibrahim, JG, and Chu, H, "Sample Size and Power Determination in Joint Modeling of Longitudinal and Survival Data," *Statistics in Medicine*, 2011; **30**:2295–2309.
201. May, R, Ibrahim, JG, and Chu, H, "Maximum Likelihood Estimation in Generalized Linear Models with Multiple Covariates Subject to Detection Limits," *Statistics in Medicine*, 2011; **30**:2551–2561.
202. Smith-Roe, SL, Patel, SS, Simpson, DA, Zhou, YC, Rao, S, Ibrahim, JG, Kaiser-Rogers, KA, Cordeiro-Stone, M, and Kaufmann, WK, "Timeless Functions Independently of the Tim-Tipin Complex to Promote Sister Chromatid Cohesion in Normal Human Fibroblasts," *Cell Cycle*, 2011; **10**:1618–1624.
203. Shi, X, Ibrahim, JG, Lieberman, J, Styner, M, and Zhu, H, "Two-stage Adjusted Exponentially Tilted Empirical Likelihood for Neuroimaging Data," *Annals of Applied Statistics*, 2011; **5**:1132–1158.
204. Irvin, WJ, Jr., Walko, CM, Weck, KE, Ibrahim, JG, Chiu, WK, Dees, C, Moore, SG, Olajide, OA, Graham, ML, Canale, ST, Raab, RE, Corso, SW, Peppercorn, JM, Anderson, SM, Friedman, KJ, Ogburn, ET, Desta, Z, Flockhart, DA, McLeod, HL, Evans, JP, Carey, LA, "Genotype-guided Tamoxifen Dosing Increases Active Metabolite Exposure in Women with Reduced CYP2D6 Metabolism: A Multicenter Study," *Journal of Clinical Oncology*, 2011; **29**:3232–3239.
205. Rashid, N, Giresi, P, Ibrahim, JG, Sun, W, Lieb, JD, "ZINBA Integrates Local Covariates with DNA-seq Data to Identify Broad and Narrow Regions of Enrichment, Even Within Amplified Genomic Regions," *Genome Biology*, 2011; **12**:R67, 1–20.
206. Zhu, H, Ibrahim, JG, Cho, H, and Tang, N, "Bayesian Case Influence Measures for Statistical Models with Missing Data," *Journal of Computational and Graphical Statistics*, 2012; **21**:253–271.
207. Zeng, D, Chen, Q, Chen, MH, Ibrahim, JG, and the Amgen Research Group, "Estimating Treatment Effects with Treatment Crossovers via Semi-Competing Risks Models: An Application to a Colorectal Cancer Study," *Biometrika*, 2012; **99**:167–184.
208. Ibrahim, JG, Chen, MH, Xia, HA, Liu, "Bayesian Meta-Experimental Design: Evaluating Cardiovascular Risk in New Antidiabetic Therapies to Treat Type 2 Diabetes," *Biometrics*, 2012; **68**:578–586.
209. Shi, X, Zhu, H, Ibrahim, JG, Liang, F, Lieberman, J, Styner, M, "Intrinsic Regression Models for Medial Representation of Subcortical Structures," *Journal of the American Statistical Association*, 2012; **107**:12–23.
210. Guo, R, Zhu, H, Chow, SM, and Ibrahim, JG, "Bayesian Lasso for Semiparametric Structural Equation Models," *Biometrics*, 2012; **68**:567–577.

211. Ma, J, Chi, E, Ibrahim, JG, and Parker, R, "Assessing Similarity to Existing Drugs to Decide Whether to Continue Drug Development," *Statistics in Biopharmaceutical Research*, 2012; **4**:293–300.
212. Bradshaw, PT, Ibrahim, JG, Stevens, J, Cleveland, R, Abrahamson, PE, Satia, JA, Teitelbaum, SL, Neugut, AI, and Gammon, MD, "Post-diagnosis change in bodyweight and survival after breast cancer diagnosis: The Long Island Breast Cancer Study Project," *Epidemiology*, 2012; **23**:320–327.
213. Zhu, H, Ibrahim, JG, Chi, Y, and Tang, N, "Bayesian Influence Measures for Joint Models of Longitudinal and Survival Data," *Biometrics*, 2012; **68**:954–964.
214. Zhu, H, Ibrahim, JG, Cho, H, "Perturbation and Scaled Cook's Distance," *Annals of Statistics*, 2012; **40**:785–811.
215. Fyall, KM, Fong, AM, Rao, SB, Ibrahim, JG, Waxweiler, WT, and Thomas, NE, "The TBX21 Transcription Factor T-1993C Polymorphism is Associated with Decreased IFN- γ and IL-4 Production by Primary Human Lymphocytes," *Human Immunology*, 2012; **73**:673–676.
216. Ibrahim, JG, Chu, H, and Chen, MH, "Missing Data in Clinical Studies: Issues and Methods," *Journal of Clinical Oncology*, 2012; **30**:3297–3303.
217. Chen, MH, Ibrahim, JG, Shah, AK, Lin, J, and Yao, H, "Meta-analysis Methods and Models with Applications in Evaluation of Cholesterol Lowering Drugs," *Statistics in Medicine*, 2012; **31**:3597–3616.
218. Carson, C, Omolo, B, Chu, H, Zhou, Y, Tompkins, P, Simpson, DA, Thomas, NE, Fan, C, Sarasin, A, Dessen, P, Ibrahim, JG, Kaufmann, WK, "A Prognostic Signature of Defective p53-dependent G1 Checkpoint Function in Melanoma Cell Lines," *Pigment Cell and Melanoma Research*, 2012; **25**:514–526.
219. Lin, J, Zhu, H, Knickmeyer, R, Styner, M, Gilmore, J, and Ibrahim, JG, "Projection Regression Models for Multivariate Imaging Phenotype," *Genetic Epidemiology*, 2012; **36**:631–641.
220. Ibrahim, JG, Chen, MH, and Chu, H, "Bayesian Methods in Clinical Trials: A Bayesian Analysis of ECOG Trials E1684 and E1690," *BMC Medical Research Methodology*, 2012; **12**:183, 1–12.
221. Lipsitz, SR, Fitzmaurice, G, Regenbogen, SE, Sinha, D, Ibrahim, JG, Gawande, AA, "Bias Correction for the Proportional Odds Logistic Regression model with Application to a Study of Surgical Complications," *Applied Statistics*, 2012; **62**:233–250.
222. Natarajan, S, Lipsitz, SR, Fitzmaurice, GM, Sinha, D, Ibrahim, JG, Haas, J, Gellad, W, "An Extension of the Wilcoxon Rank Sum Test for Complex Sample Survey Data," *Journal of the Royal Statistical Society, Series C*, **61**:653–664.

223. Khondker, Z, Zhu, H, Chu, H, Lin, W, and Ibrahim, JG, "The Bayesian Covariance Lasso," *Statistics and its Interface*, 2013; **6**:243–260.
224. Chen, Q, Zeng, D, Ibrahim, JG, Akacha, M, and Schmidli, H, "Estimating Time-varying Effects for Overdispersed Recurrent Events Data with Treatment Switching," *Biometrika*, 2013; **100**: 339–354.
225. Smith-Roe, SL, Patel, SS, Zhou, YC, Simpson, DA, Rao, S, Ibrahim, JG, Cordeiro-Stone, M, and Kaufmann, WK, "Separation of intra-S Checkpoint Protein Contributions to DNA Replication Fork Protection and Genomic Stability in Normal Human Fibroblasts," *Cell Cycle*, 2013; **12**:332-345.
226. Kim, S, Chen, MH, Ibrahim, JG, Shah, AK, and Lin, J, "Bayesian Inference for Multivariate Meta-Analysis Box-Cox Transformation Models for Individual Patient Data with Applications to Evaluation of Cholesterol Lowering Drugs," *Statistics in Medicine*, 2013; **32**: 3972–3900.
227. Chen, Q, and Ibrahim, JG, "A Note on the Relationships Between Multiple Imputation, Maximum Likelihood, and Fully Bayesian Methods for Missing Responses in Linear Regression Models," *Statistics and Its Interface*, 2013; **6**:315–324.
228. Chen, MH, Chen, Q, Ohlssen, D, and Ibrahim, JG, "Bayesian Modeling and Inference with Partial Retrieved Data Following Dropout," *Statistics in Medicine*, 2013; **32**: 4180–4195.
229. Miranda, MF, Zhu, H, and Ibrahim, JG, "Bayesian Spatial Transformation Models with Applications in Neuroimaging Data," *Biometrics*, 2013; **69**:1074–1083.
230. Gelfond, JAL, Ibrahim, JG, Gupta, M, Chen, MH, and Cody, JD, "Differential Expression with Global Network Adjustment," *BMC Bioinformatics*, 2013; **14**:258.
231. Sproul, CD, Rao, S, Ibrahim, JG, Kaufmann, WK, and Cordeiro-Stone, M, "Is Activation of the Intra-S Checkpoint in Human Fibroblasts an Important Factor in Protection Against UV-induced Mutagenesis?," *Cell Cycle*, 2013; **12**: 3555–3563.
232. May, R, Chu, H, Ibrahim, JG, Hudgens, M, Lees, A, and Margolis, D, "Change-Point Models to Estimate the Limit of Detection," *Statistics in Medicine*, 2013; **32**:4995–5007.
233. Omolo, B, Carson, C, Chu, H, Zhou, Y, Simpson, DA, Hesse, JE, Paules, RS, Nyhan, KC, Ibrahim, JG, Kaufmann, WK, "A Prognostic Signature of G2 Checkpoint Function in Melanoma Cell Lines," *Cell Cycle*, 2013; **12**:1071–1082.
234. Hamilton, R, Krauze, MK, Romkes, M, Omolo, B, Konstantinopoulos, P, Reinhart, T, Harasymczuk, M, Wang, Y, Lin, Y, Ferrone, S, Whiteside, T, Bortoluzzi, S, Werley, J, Nukui, T, Fallert-Junecko, B, Kondziolka, D, Ibrahim, JG, Becker, D, Kirkwood, J, Moschos, S "Pathologic and Gene Expression Features of Metastatic Melanomas to the Brain (MBM)," *Cancer*, 2013; **119**:2737–2746.

235. Bryant, C, Giovanello, KS, Ibrahim, JG, Shen, DG, Peterson, BS, and Zhu, H, "Mapping the Genetic Variation of Regional Brain volumes as Explained by All Common SNPs from the ADNI Study," *PLOS ONE*, August, 2013, DOI: 10.1371/journal.pone.0071723.
236. Sproul, CD, Mitchell, DL, Rao, S, Ibrahim, JG, Kaufmann, WK, Cordeiro-Stone, M, "Cyclobutane Pyrimidine Dimer Density as a Predictive Biomarker of the Biological Effects of Ultraviolet Radiation in Normal Human Fibroblast," *Photochemistry and Photobiology*, 2014; **90**:145–154.
237. Zhang, Y, Chen, MH, Ibrahim, JG, Zeng, D, Chen, Q, Pan, Z, and Xue, X, "Bayesian Gamma Frailty Models for Survival Data with Semi-competing Risks and Treatment Switching," *Lifetime Data Analysis*, 2014; **20**:76–105.
238. Brewer, NT, DeFrank, JT, Chiu, WK, Ibrahim, JG, Walko, CM, Rubin, P, Olajide, OA, Moore, SG, Raab, RE, Carrizosa, DR, Corso, SW, Schwartz, G, Peppercorn, JM, McLeod, HL, Carey, LA, Irvin, WJ, "Patients' Understanding of How Genotype Variation Affects Benefits of Tamoxifen Therapy for Breast Cancer," *Public Health Genomics*, 2014; **17**:43–47.
239. Viele, K, Berry, S, Neuenschwander, B, Amzal, B, Chen, F, Enas, N, Hobbs, B, Ibrahim, JG, Kinnersley, N, Lindborg, S, Micallef, S, Roychoudhury, S, and Thompson, L, "Use of Historical Control Data for Assessing Treatment Effects in Clinical Trials," *Pharmaceutical Statistics*, 2014; **13**:41–54.
240. Nikolaishvilli-Feinberg, N, Cohen, SM, Midkiff, B, Zhou, Y, Olorvida, M, Ibrahim, JG, Omolo, B, Shields, JM, Thomas, NE, Groben, PA, Kaufmann, WK, Miller, CR, "Development of DNA Damage Response Signaling Biomarkers Using Automated, Quantitative Image Analysis," *Journal of Histochemistry and Cytochemistry*, 2014; **62**:185–196.
241. de Castro, M, Chen, MH, Ibrahim, JG, and Klein, JP, "Bayesian Transformation Models for Multivariate Survival Data," *Scandinavian Journal of Statistics*, 2014; **41**:187–199.
242. Zeng, D, Ibrahim, JG, Chen, MH, Hu, K, and Jia, C, "Multivariate Recurrent Events in the Presence of Multivariate Informative Censoring with Applications to Bleeding and Transfusion Events in Myelodysplastic Syndrome," *Journal of Biopharmaceutical Statistics*, 2014; **24**:429–442.
243. Zhu, H, Ibrahim, JG, Tang, N,, "Bayesian Sensitivity Analysis of Statistical Models with Missing Data," *Statistica Sinica*, 2014; **24**:871–896.
244. Chen, L, Ibrahim, JG, and Chu, H, "Flexible Stopping Boundaries When Changing Primary Endpoints after Unblinded Interim Analyses," *Journal of Biopharmaceutical Statistics*, 2014; **24**:817–833.

245. Chen, L, Ibrahim, JG, Chu, H, “Sample Size Determination in Shared Frailty Models for Multivariate Time-to-Event Data,” *Journal of Biopharmaceutical Statistics*, 2014; **24**:908–923.
246. Chen, MH, Ibrahim, JG, Xia, HA, Liu, T, and Hennessey, V, “Bayesian Sequential Meta-analysis Design in Evaluating Cardiovascular Risk in a New Antidiabetic Drug Development Program,” *Statistics in Medicine*, 2014; **33**:1600–1618.
247. Rashid, N, Sun, W, and Ibrahim, JG, “Some Statistical Strategies for DAE-seq Data Analysis: Variable Selection and Modeling Dependencies among Observations,” *Journal of the American Statistical Association*, 2014; **109**:78–94.
248. Sanoff, HK, Deal, AM, Krishnamurthy, J, Torrice, C, Dillon, P, Sorrentino, J, Ibrahim, JG, Jolly, TA, Williams, G, Carey, LA, Drobish, A, Gordon, BB, Alston, S, Hurria, A, Kleinhans, K, Rudolph, KL, Sharpless, NE, Muss, HB, “Effect of Cytotoxic Chemotherapy on Markers of Molecular Age in Patients with Breast Cancer,” *Journal of the National Cancer Institute*, 2014; 106(4):dju057.
249. Kaufmann, WK, Carson, CC, Omolo, B, Sambade, MJ, Simpson, DA, Shields, JM, Ibrahim, JG, and Thomas, NE”, Mechanisms of Chromosomal Instability in Melanoma,” *Environmental and Molecular Mutagenesis*, 2014; **55**:457–471.
250. Bradshaw, PT, Ibrahim, JG, Cleveland, RJ, Abrahamson, PE, Stevens, J, Satia, JA, Teitelbaum, SL, Neuget, AI, Gammon, MD, “Post-diagnosis Physical Activity and Survival After Breast Cancer Diagnosis: The Long Island Breast Cancer Study,” *Breast Cancer Research and Treatment*, 2014; **145**:735–742.
251. Chen, Q, May, RC, Ibrahim, JG, Chu, H, and Cole, SR, “Joint Modeling of Longitudinal and Survival Data with Missing and Left-Censored Time-Varying Covariates,” *Statistics in Medicine*, 2014; **33**:4560–4576.
252. Zhu, H, Khondker, Z, Lu, Z, and Ibrahim, JG, “Bayesian Generalized Low Rank Regression Models for High-dimensional Neuroimaging Phenotypes and Genetic Markers,” *Journal of the American Statistical Association*, 2014; **109**:977–990.
253. Zhang, D, Chen, MH, Ibrahim, JG, Boye, ME, Wang, P, and Shen, W “Assessing Model Fit in Joint Models of Longitudinal and Survival Data with Applications to Cancer Clinical Trials,” *Statistics in Medicine*, 2014; **33**:4715–4733.
254. Patel, JN, O’Neil, BH, Deal, AM, Ibrahim, JG, Sherrill, GB, Olajide, OA, Atluri, PM, Inzerillo, JJ, Chay, CH, McLeod, HL, Walko, CM, “A Community-based Multicenter Trial of Pharmacokinetically Guided 5-fluorouracil Dosing for Personalized Colorectal Cancer Therapy,” *The Oncologist*, 2014; **19**:959–965.
255. Chen, MH, Ibrahim, JG, Zeng, D, Hu, K, and Jia, C, “Bayesian Design of Superiority Clinical Trials for Recurrent Events Data with Applications to Bleeding and Transfusion Events in Myelodysplastic Syndrome,” *Biometrics*, 2014; **70**:1003–1013.

256. Lin, J, Zhu, H, Ahn, M, Sun, W, and Ibrahim, JG, “Functional Mixed Effects Models for Candidate Genetic Mapping in Imaging Genetic Studies,” *Genetic Epidemiology*, 2014; **38**:680–691.
257. Zhu, H, Ibrahim, JG, and Chen, Q, “Bayesian Case-deletion Model Complexity and Information Criterion,” *Statistics and its Interface*, 2014; **7**:531–542.
258. Zeng, D, Chen, MH, Ibrahim, JG, Wei, R, Ding, B, Ke, Chunlei, and Jiang, Q, “A Counterfactual P-value Approach for Benefit-Risk Assessment in Clinical Trials,” *Journal of Biopharmaceutical Statistics*, 2015; **25**:508–524.
259. Hertz, DL, Snavely, AC, McLeod, HL, Walko, CM, Ibrahim, JG, Anderson, S, Weck, KE, Gustav, M, Oludamilola, O, Moore, S, Raab, R, Carrizosa, DR, Corso, S, Schwartz, G, Peppercorn, JM, Evans, JP, Jones, DR, Desta, Z, Flockhart, DA, Carey, LA, Irvin, WJ, “In Vivo Assessment of the Metabolic Activity of CYP2D6 Diplotypes and Alleles,” *British Journal of Pharmacology*, 2015; **80**:1122–1130.
260. Chen, Q, Zeng, D, Ibrahim, JG, Chen, MH, Pan, Z, and Xue, X, “Quantifying Time-varying Hazard Ratios via a Class of Transformations,” *Lifetime Data Analysis*, 2015; **21**:259–279.
261. Barry, WT, Perou, CM, Marcom, KP, Carey, LA, and Ibrahim, JG, “The Use of Bayesian Hierarchical Models for Adaptive Randomization in Biomarker-driven Phase II Studies,” *Journal of Biopharmaceutical Statistics*, 2015; **25**:66–88.
262. Ibrahim, JG, Chen, MH, Lakshminarayanan, M, Liu, GF, and Heyse, JF, “Bayesian Probability of Success for Clinical Trials Using Historical Data,” *Statistics in Medicine*, 2015; **34**:249–264.
263. Sun, Q, Zhu, H, Liu, Y, and Ibrahim, JG, “SPReM: Sparse Projection Regression Model for High-dimensional Linear Regression,” *Journal of the American Statistical Association*, 2015; **110**:289–302.
264. Zeng, D, Cornea, E, Dong, J, Pan, J, and Ibrahim, JG, “Assessing Temporal Agreement between Central and Local Progression-Free Survival Times,” *Statistics in Medicine*, 2015; **34**:844–858.
265. Gould, LA, Boye, ME, Crowther, MJ, Ibrahim, JG, Quartey, G, Micallef, S, Bois, FY, “Joint Modeling of Survival and Longitudinal Non-Survival Data: Current Methods and Issues. Report of the DIA Bayesian Joint Modeling Working Group,” *Statistics in Medicine* (with discussion), 2015; **34**:2181–2203.
266. Chastain, PD, Brylawski, B, Zhou, YC, Rao, S, Chu, H, Ibrahim, JG, Kaufmann, WK, Cordeiro-Stone, M, “DNA Damage Checkpoint Responses in the S Phase of Synchronized Diploid Human Fibroblasts,” *Photobiology and Photochemistry*, 2015; **91**:109–116.

267. Yao, H, Kim, S, Chen, MH, Ibrahim, JG, Shah, AK, and Lin, J, “Bayesian Inference for Multivariate Meta-regression with Partially Observed Within-Study Sample Covariance Matrix,” *Journal of the American Statistical Association*, 2015; **110**:528–544.
268. Zeng, D, Gao, F, Hu, K, Jia, C, and Ibrahim, JG, “Hypothesis testing for two-stage designs with over or under enrollment,” *Statistics in Medicine*, 2015; **34**:2417–2426.
269. Garcia, RI, Ibrahim, JG, Wambaugh, JF, Kenyon, EM, Setzer, RW, “Identifiability of PBPK Models with Applications to Dimethylarsinic Acid Exposure,” *Journal of Pharmacokinetics and Pharmacodynamics*, 2015; **42**:591–609.
270. Zhu, H, Ibrahim, JG, Chen, MH, “Diagnostic Measures for the Cox Regression Model with Missing Covariates,” *Biometrika*, 2015; **102**:907–923.
271. Ibrahim, JG, Chen, MH, Gwon, Y, and Chen, F “The Power Prior: Theory and Applications,” *Statistics in Medicine*, 2015; **34**:3724–3749.
272. Lee, E, Zhu, H, Kong, D, Wang, Y, Sullivan-Giovanello, Ibrahim, JG, “BFLCRM: A Bayesian Functional Linear Cox Regression Model for Predicting Time to Conversion to Alzheimer’s Disease,” *Annals of Applied Statistics*, 2015; **9**:2153–2178.
273. Gelfond JA, Ibrahim JG, Chen MH, Sun W, Lewis K, Kinahan S, Hibbs M, Buffenstein R. “Homology Cluster Differential Expression Analysis for Interspecies mRNA-Seq Experiments, *Statistical Applications in Genetics and Molecular Biology*, 2015; Dec 1;14(6):507-16.
274. Cordeiro-Stone, M, McNulty, JJ, Sproul, CD, Chastain, PD, Gibbs-Flournoy, E, Zhou, Y, Carson, C, Rao, S, Mitchell, DL, Simpson, DA, Thomas, NE, Ibrahim, JG, and Kaufmann, WK, “Effective Intra-S Checkpoint Responses to UVC in Primary Human Melanocytes and Melanoma Cell Lines,” *Pigment Cell and Melanoma Research*, 2016, **29**:68–80.
275. Hertz, DL, Deal, A, Ibrahim, JG, Walko, CM, Weck, KE, Anderson, S, Magrinat, G, Olajide, O, Moore, S, Raab, R, Carrizosa, DR, Corso, S, Schwartz, G, Graham, M, Peppercorn, JM, Jones, DR, Desta, Z, Flockhart, DA, Evans, JP, McLeod, HL, Carey, LA, Irvin, WJ, “Tamoxifen Dose Escalation in Patients with Diminished Cyp2d6 Activity Normalizes Endoxifen Concentrations Without Increasing Toxicity,” *The Oncologist*, 2016; **21**:795–803.
276. Rao, S, Ibrahim, JG, Cheng, J, Yap, PT, Zhu, H, SR-HARDI: Spatially Regularizing High Angular Resolution Diffusion Imaging,” *Journal of Computational and Graphical Statistics*, 2016; **25**:1195–1211.
277. Cribb, J, Osborne, L, Beicker, K, Psioda, M, Chen, J, O’Brien, TE, Taylor, R, Vicci, L, Hsiao, J, Shao C, Falvo, M, Ibrahim, JG, Wood, K, Blobe, G, and Superfine, R, “An Automated High-throughput Array Microscope for Cancer Cell Mechanics,” *Scientific Reports*, 2016; **6**; 27371; doi:10.1038/srep27371.

278. Rashid, NU, Sun, W, and Ibrahim, JG, “A Statistical Model to Assess (Allele-Specific) Associations Between Gene Expression and Epigenetic Marks Using Sequencing Data,” *Annals of Applied Statistics*, 2016; **10**: 2254–2273.
279. Zhang, D, Chen, MH, Ibrahim, JG, Boye, ME, and Shen, W, **JMFit**: A **SAS** Macro for Assessing Model Fit in Joint Models of Longitudinal and Survival Data,” *Journal of Statistical Software*, 2016; **71**, doi: 10.18637/jss.v071.i03.
280. Allen, GI, Amoroso, N, . . . , Ibrahim, JG, . . . , Zhu, S, “Crowdsourced Estimation of Cognitive Decline and Resilience in Alzheimer’s Disease,” *Alzheimer’s and Dementia*, 2016; **12**:645–653.
281. Zhang, D, Chen, MH, Ibrahim, JG, Boye, ME, and Shen, W, “Bayesian Model Assessment in Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Clinical Trials”, *Journal of Computational and Graphical Statistics*, 2017; **26**:121-133.
282. Cornea, E, Zhu, H, Kim, P, and Ibrahim, JG, “Regression Models on Riemannian Symmetric Spaces,” *Journal of the Royal Statistical Society, Series B*, 2017; **79**:463–482.
283. Gao, G, Liu, G, Zeng, D, Diao, G, Heyse, JF, and Ibrahim, JG, “On Inference of Control-based Imputation for Analysis of Repeated Binary Outcomes with Missing Data,” *Journal of Biopharmaceutical Statistics*, 2017; **27**:358–372.
284. Bryant, C, Zhu, H, Ahn, M, and Ibrahim, JG, “LCN: A Random Graph Mixture Model for Community Detection in Functional Brain Networks,” *Statistics and Its Interface*, 2017; **10**:369–378.
285. Diao, G, Zeng, D, Ibrahim, JG, Rong, A, Lee, O, Zhang, K, and Chen, Q, “Statistical Design of Non-Inferiority Multiple Region Clinical Trials to Assess Global and Consistent Treatment Effects,” *Journal of Biopharmaceutical Statistics*, 2017; **27**:933–944.
286. Lu, ZH, Khondker, Z, Ibrahim, JG, Wang, Y, Zhu, H, “Bayesian Longitudinal Low-rank Regression Models for Imaging Genetic Data from Longitudinal Studies, *Neuroimage*, 2017; **149**:305–322.
287. Bower, JJ, Vance, LD, Psioda, M, Smith-Roe, SL, Simpson, DA, Ibrahim, JG, Hoadley, KA, Perou, CM, and Kaufmann, WK, “Patterns of Cell Cycle Checkpoint Deregulation Associated with Intrinsic Molecular Subtypes of Human Breast Cancer Cells,” *NPJ Breast Cancer*, 2017; 3:9; doi:10.1038/s41523-017-0009-7.
288. Gao, F, Dong, J, Zeng, D, Rong, A, Ibrahim, JG, “Pattern Mixture Models for Clinical Validation of Biomarkers in the Presence of Missing Data,” *Statistics in Medicine*, 2017; **36**:2993–3004.
289. Eggleston, BS, Ibrahim, JG, and Catellier, D, “Bayesian Clinical Trial Design Using Markov Models with Applications to Autoimmune Disease,” *Contemporary Clinical Trials*, 2017; **63**:73–83.

290. Lee, E, Giovanello, KS, Saykin, AJ, Xie, F, Kong, D, Wang, Y, Yang, L, Ibrahim, JG, Doraiswamy, PM, Zhu, H, “Single-nucleotide Polymorphisms are Associated with Cognitive Decline at Alzheimer’s Disease Conversion within Mild Cognitive Impairment Patients,” *Alzheimer’s and Dementia*, 2017; **8**:86–95.
291. Diao, G, Zeng, D, Hu, K, and Ibrahim, JG, “Modeling Event Count Data in the Presence of Informative Dropout with Application to Bleeding and Transfusion Events in Myelodysplastic Syndrome,” *Statistics in Medicine*, 2017; **36**:3475–3494.
292. Gao, F, Liu, GF, Zeng, D, Xu, L, Lin, B, Diao, G, Golm, G, Heyse, JF, Ibrahim, JG, “Control-based Imputation for Sensitivity Analyses in Informative Censoring for Recurrent Event Data,” *Pharmaceutical Statistics*, 2017; **16**:424–432.
293. Tang, N, Chow, S, Ibrahim, JG, and Zhu, H, “Bayesian Sensitivity Analysis of a Nonlinear Dynamic Factor Analysis Model with Nonparametric Prior and Possible Nonignorable Missingness,” *Psychometrika*, 2017; **82**:875–903.
294. Marcatch, L, Deal, AM, Van Wieren, E, Danko, W, Walko, CM, Ibrahim, JG, Weck, KE, Jones, DR, Desta, Z, McLeod, HL, Carey, LA, Irvin, WJ, Hertz, DL, “Comprehensive Assessment of Cytochromes P450 and Transporter Genetics with Endoxifen Concentration During Tamoxifen Treatment,” *Pharmacogenetics and Genomics*, 2017; **27**:402–409.
295. Ma, X, Lian, Q, Chu, H, Ibrahim, JG, Chen, Y, “A Bayesian Hierarchical Model for Network Meta-analysis of Multiple Diagnostic Tests,” *Biostatistics*, 2018; **19**:71–86.
296. Gao, F, Zeng, D, Wei, H, Wang, X, and Ibrahim, JG, “Estimating Treatment Effects for Recurrent Events in the Presence of Rescue Medications: An Application to the Immune Thrombocytopenia Study,” *Statistics in Biosciences*, 2018, **10**:473–489.
297. Li, T, Xie, F, Feng, X, Ibrahim, JG, Zhu, H, “Functional Linear Regression Models for Nonignorable Missing Scalar Responses,” *Statistica Sinica*, 2018; **28**:1867–1886
298. Wu, J, Ibrahim, JG, Chen, MH, Schifano, ED, and Fisher, JD, “Bayesian Modeling and Inference for Nonignorably Missing Longitudinal Binary Response Data with Applications to HIV Prevention Trials,” *Statistica Sinica*, 2018; **28**:1929–1963.
299. Kong, D, Ibrahim, JG, Lee, E, and Zhu, H, “FLCRM: Functional Linear Cox Regression Models,” *Biometrics*, 2018; **74**:109–117.
300. Kaur A, Skoner D, Ibrahim J, Li Q, Lockey RF, Blaiss M, Bufe A, Andersen JS, Canonica GW, Nolte H, “Effect of Grass Sublingual Tablet Immunotherapy is Similar in Children and Adults: A Bayesian Approach To Design Pediatric Sublingual Immunotherapy Trials,” *Journal of Allergy and Clinical Immunology*; 2018; **141**:1744–1749.

301. Diao, G, Zeng, D, Ke, C, Jiang, Q, and Ibrahim, JG, “Semiparametric Regression Analysis for Composite Endpoints Subject to Componentwise Censoring,” *Biometrika*, 2018; **105**:403–418.
302. Miranda, MF, Zhu, H, and Ibrahim, JG, “TPRM: Tensor Partition Regression Models with Applications in Imaging Biomarker Detection,” *Annals of Applied Statistics*, 2018; **12**:1422–1450.
303. Yang, H, Zhu, H, and Ibrahim, JG, “MILFM: Multiple Index Latent Factor Model Based on High-dimensional Features,” *Biometrics*, 2018; **74**:834–844.
304. O’Brien, JJ, Gunawardenay, HP, Paulo, JA, Chen, X, Ibrahim, JG, Gygi, SP, and Qaqish, BF, “The Effects of Non-ignorable Missing Data on Label-free Mass Spectrometry Proteomics Experiments,” *Annals of Applied Statistics*, 2018; **12**:2075–2095.
305. Psioda, MA, and Ibrahim, JG, “Bayesian Design of a Survival Trial with a Cured Fraction using Historical Data,” *Statistics in Medicine*, 2018; **37**:3814–3831.
306. Psioda, MA, Soukap, M, and Ibrahim, JG, “A Practical Bayesian Adaptive Design Incorporating Data from Historical Controls,” *Statistics in Medicine*, 2018; **37**:4054–4070.
307. Diao, G, Dong, J, Zeng, D, Ke, C, Rong, A, and Ibrahim, JG, “Biomarker Threshold Adaptive Designs for Survival Endpoints,” *Journal of Biopharmaceutical Statistics*, 2018; **28**:1038–1054.
308. Zhao, B, Zhang, J, Ibrahim, JG, Li, Y, Li, T, Shan, Y, Zhu, Z, Zhou, F, Liao H, Thompson, PM, Zhu, H, “Large-scale GWAS Reveals Genetic Architecture of 1 Brain White Matter Microstructure and Genetic Overlap with Cognitive and Mental Health Traits (n=17,706),” *Molecular Psychiatry*; 2019; <https://doi.org/10.1038/s41380-019-0569-z>.
309. Psioda, MA, and Ibrahim, JG, “Bayesian Clinical Trial Design Using Historical Data that Inform the Treatment Effect,” *Biostatistics*, 2019; **20**:400–415.
310. Li, H, Chen, MH, Ibrahim, JG, Kim, S, Shah, AK, Lin, J, Tershakovec, AM, “Bayesian Inference for Network Meta-Regression Using Multivariate Random Effects with Applications to Cholesterol Lowering Drugs,” *Biostatistics*, 2019; **20**:499–516.
311. Sun, Q, Zhu, H, and Ibrahim, JG, “Hard Thresholding Regression,” *Scandinavian Journal of Statistics*, 2019; **46**:314–328.
312. Zhu, A, Ibrahim, JG, and Love, MI, “Heavy-tailed Prior Distributions for Sequence Count Data: Removing the Noise and Preserving Large Differences,” *Bioinformatics*, 2019; **35**:2084–2092.

313. Zhao, B, Ibrahim, JG, Li, Y, Li, T, Wang, Y, Shan, Y, Zhu, Z, Zhou, F, Zhang, J, Huang, C, Liao, H, Yang, L, Thompson, PM, Zhu, H, “Heritability of Regional Brain Volumes in Large-scale Neuroimaging and Genetic Studies,” *Cerebral Cortex*, 2019; **29**:2904–2914.
314. Ibrahim, JG, Kim, S, Chen, MH, Shah, AK, Lin, J, “Bayesian Multivariate Skew Meta-Regression Models for Individual Patient Data,” *Statistical Methods for Medical Research*, 2019; **28**:3415–3436.
315. Diao, G, and Ibrahim, JG, “Quantifying Time-varying Cause-specific Hazards and Subdistribution Hazards Ratios with Competing Risks Data”, *Clinical Trials*, 2019; **16**:363–375.
316. Diao, G, Liu, GF, Zeng, D, Wang, W, Tan, X, Heyse, JF, and Ibrahim, JG, “Methods for Signal Detection from Correlated Adverse Events in Clinical Trials,” *Biometrics*, 2019; **75**:1000–1008.
317. Baldoni, PL, Rashid, NU, and Ibrahim, JG, “Improved Detection of Epigenetic Marks With Mixed Effects Hidden Markov Models,” *Biometrics*, 2019; **75**:1401–1413.
318. Tan, X, Liu, GF, Zeng, D, Wang, W, Diao, G, Heyse, JF, Ibrahim, JG, “Controlling False Discovery Proportion in Identification of Drug-Related Adverse Events from Multiple System Organ Classes,” *Statistics in Medicine*, 2019; **38**:4378–4389.
319. Diao, G, Zeng, D, Hu, K, Ibrahim, JG, “Semi-parametric Frailty Models for Zero-inflated Count Data in the Presence of Informative Dropout,” *Biometrics*, 2019; **75**:1168–1178.
320. Wu, J, Chen, MH, Schifano, ED, Ibrahim, JG, Fisher, JD, “New Bayesian Joint Model for Longitudinal Count Data with Many Zeros, Intermittent Missingness, and Dropout with Applications to HIV Prevention Trials,” *Statistics in Medicine*; 2019; **38**:5565–5586.
321. Zhu, A, Srivastava, A, Ibrahim, JG, Patro, R, and Love, MI, “Nonparametric Expression Analysis Using Inferential Replicate Counts”, *Nucleic Acids Research*, Volume 47, Issue 18, 10 October 2019; Page e105.
322. Duan, R, Cao, M, Ning, Y, Zhu, M, Zhang, B, McDermott, A, Chu, H, Zhou, X, Moore, JH, Ibrahim, JG, Scharfstein, DO, Chen, Y, “Global Identifiability of Latent Class Models with Applications to Diagnostic Test Accuracy Studies: A Gröbner Basis Approach,” *Biometrics*, 2020; **76**: 98–108.
323. Wilson, DR, Sun, W, Ibrahim, JG, “Mapping Tumor-Specific Expression QTLs in Impure Tumor Samples,” *Journal of the American Statistical Association*, 2020; **115**:79–89.
324. Psioda, MA, Hu, K, Zhang, Y, Pan, J, Ibrahim, JG, “Bayesian Design of Biosimilars Clinical Programs Involving Multiple Therapeutic Indications,” *Biometrics*; 2020; **76**:630–642.

325. Gwon, Y, Mo, M, Chen, MH, Li, J, Xia, H, Ibrahim, JG, “Network Meta-Regression for Ordinal Outcomes: Applications in Comparing Crohn’s Disease Treatments,” *Statistics in Medicine*; 2020; **39**:1846–1870.
326. Tan, X, Chen, B, Sun, J, Patel, T, Ibrahim, JG, “A Hierarchical Testing Approach for Detecting Safety Signals in Clinical Trials,” *Statistics in Medicine*, 2020; **39**:1541–1557.
327. Kim, S, Chen, MH, Ibrahim, JG, Shah, AK, Lin, J, “Bayesian Flexible Hierarchical Skew Heavy-Tailed Multivariate Meta Regression Models for Individual Patient Data with Applications,” *Statistics and its Interface*; 2020; **13**:485–500.
328. Wilson, DR, Ibrahim, JG, and Sun, W, “ICeD-T Provides Accurate Estimates of Immune Cell Abundance in Tumor Samples by Allowing for Aberrant Gene Expression Patterns,” *Journal of the American Statistical Association*, 2020; **115**:1055–1065.
329. Rashid, NU, Li, Q, Yeh, JJ, and Ibrahim, JG, “Between-Study Heterogeneity for Gene Signature Selection and Clinical Prediction,” *Journal of the American Statistical Association*, 2020; **115**:1125–1138.
330. Sun, W, Chong, J, Gelfond, JAL, Chen, MH, and Ibrahim, JG, “Joint Analysis of Single Cell and Bulk Tissue Sequencing Data to Infer Intra-Tumor Heterogeneity,” *Biometrics*; 2020; **76**:983–994.
331. Van Oudenhoven, FM, Swinkels, SHN, Ibrahim, JG, and Rizopoulos, D, “A Marginal Estimate for the Overall Treatment Effect on a Survival Outcome within the Joint Modeling Framework,” *Statistics in Medicine*; 2020; **39**:4120–4132.
332. Wang, Y, Ibrahim, JG, Zhu, H, “Partial Least Squares for Functional Joint Models with an application to the Alzheimers Disease Neuroimaging Initiative Study,” *Biometrics*; 2020; **76**:1109–1119.
333. Jung, J, Ji, S, Zhu, H, Ibrahim, JG, Fan, Y, Lee, E, “Penalized Logistic Regression using Functional Connectivity as Covariates with an Application to Mild Cognitive Impairment,” *Communications for Statistical Applications and Methods*; 2020; **27**:603–624.
334. Psioda, MA, Xu, J, Jiang, Q, Ke, C, Zhao, Y, and Ibrahim, JG, “Bayesian Adaptive Basket Trial Design Using Model Averaging,” *Biostatistics*, 2021; **22**:19–34.
335. Lim, DK, Rashid, NU, Ibrahim, JG, “Model-based Feature Selection and Clustering of RNA-seq Data for Unsupervised Subtype Discovery,” *Annals of Applied Statistics*; 2021; **15**:481–508.
336. Sheikh, T, Ibrahim, JG, Gelfond, JA, Sun, W, Chen, MH, “Joint Modeling of Longitudinal and Survival Data in the Presence of Competing Risks with Applications to Prostate Cancer Data.” *Statistical Modelling*; 2021; **21**:72–94.

337. Li, H, Chen, MH, Ibrahim, JG, Kim, S, Shah, A, Lin, J, “Bayesian Network Meta-Regression Hierarchical Models Using Heavy-Tailed Multivariate Random Effects with Covariate-Dependent Variances,” *Statistics in Medicine*; 2021; **40**:3582–3603.
338. Jia, B, Zeng, D, Liao, J, Liu, G, Tan, X, Diao, G, Ibrahim, JG, “Inferring Latent Heterogeneity Using Many Feature Variables Supervised by Survival Outcome,” *Statistics in Medicine*; 2021; **40**:3181–3195.
339. Carvalho, LM, Ibrahim, JG, “On the Normalized Power Prior,” *Statistics in Medicine*; 2021; **40**:5251-5275.
340. Yang, H, Zhu, H, and Ibrahim, JG, “Weighted Functional Linear Cox Regression Model,” *Statistical Methods in Medical Research*; 2021; **30**:1917–1931.
341. Eggleston, B, Ibrahim, JG, McNeil, B, and Catellier, D, “An R Package for Bayesian Trial Design Using Historical Control Data,” *Journal of Statistical Software*; 2021; 100(21), 151. <https://doi.org/10.18637/jss.v100.i21>.
342. Zhu, A, Matoba, N, Wilson, E, Tapia, AL, Li, Y, Ibrahim, JG, Stein, JL, Love, MI, “MRLocus: Identifying Causal Genes Mediating a Trait through Bayesian Estimation of Allelic Heterogeneity,” *PLoS Genetics*; 2021; <https://doi.org/10.1371/journal.pgen.1009455>.
343. Diao, G, Liu, GF, Zeng, D, Zhang, Y, Golm, G, Heyse, JF, Ibrahim, JG, “Efficient Multiple Imputation for Sensitivity Analysis of Recurrent Events Data with Informative Censoring,” *Statistics in Biopharmaceutical Research*; 2022; **14**:153–161.
344. Xu, J, Psioda, MA, and Ibrahim, JG, “Bayesian Design of Clinical Trials for Joint Models of Longitudinal and Time-to-event Data,” *Biostatistics*; 2022; **23**:591–608.
345. Psioda, MA, Jiang, X, Xia, HA, Xu, J, and Ibrahim, JG, “Bayesian Adaptive Design for Concurrent Trials Involving Biologically-Related Diseases,” *Biostatistics*; 2022; **23**:1007-1022.
346. Baldoni, PL, Rashid, NU, Ibrahim, JG, “Efficient Detection and Classification of Epigenomic Changes Under Multiple Conditions,” *Biometrics*; 2022; **78**:1141-1154.
347. Sheikh, T, Chen, MH, Gelfond, JA, Ibrahim, JG, “A Power Prior Approach for Leveraging External Longitudinal and Competing Risks Survival Data within the Joint Modeling Framework”, *Statistics in Biosciences*; 2022; **14**:318-336.
348. Alt, EM, Psioda, MA, Ibrahim, JG, “Hierarchical Bayesian Generalized Linear Models with Mean Shrinkage,” *Biostatistics*; 2022; **23**:1165–1181.
349. Gelfond JA, Hernandez B, Goros M, Ibrahim JG, Chen MH, Sun W, Leach RJ, Kattan MW, Thompson IM, Ankerst DP, Liss M, “Prediction of Future Risk of Any and Higher-grade Prostate Cancer Based on the PLCO and SELECT Trials, *BMC Urology*, 2022; **22**:45. <https://doi.org/10.1186/s12894-022-00986-w>

350. Jia, B, Zeng, D, Liao, JJZ, Liu, GF, Tan, X, Diao, G, Ibrahim, JG, “Mixture Survival Trees for Cancer Risk Classification,” *Lifetime Data Analysis*; 2022; **28**:356–379.
351. Diao, G, Ma, H, Zeng, D, Ke, C, Ibrahim, JG, “Synthesizing Studies for Comparing Treatment Sequences in Clinical Trials,” *Statistics in Medicine*, 2022; **41**:5134–5149.
352. Alt, EM, Psioda, MA, Ibrahim, JG, “Bayesian Multivariate Probability of Success Using Historical Data” *Biostatistics*; 2023; **24**:17–31.
353. Heiling, H, Wilson, DR, Rashid, NU, Sun, W, Ibrahim, JG, “Estimating Cell Type Composition Using Isoform Expression One Gene at a Time,” *Biometrics*; 2023; in press.
354. Bean, NW, Ibrahim, JG, and Psioda, MA, “Bayesian Multi-Regional Clinical Trials Using Model Averaging,” *Biostatistics*; 2023; in press.
355. Xu, J, Psioda, MA, Ibrahim, JG, “Bayesian Design of Clinical Trials Using Joint Models for Recurrent and Terminating Events,” *Biostatistics*; 2023; in press.
356. Wang, Z, Wu, Y, Xiong, D, Ibrahim, JG, Srivastava, A, Zhu, H, “LESA: Longitudinal Elastic Shape Analysis of Brain Subcortical Structures,” *Journal of the American Statistical Association*, with discussion, 2023; in press.
357. Lim, D, Chen, MH, Ibrahim, JG, Kim, S, Shah, AK, Lin, J, “metapack: An R Package for Bayesian Meta-Analysis and Network Meta-Analysis with a Unified Formula Interface,” *The R Journal*, 2023; in press.
358. Alt, EM, Nifong, B, Chen, X, Psioda, MA, Ibrahim, JG, “The Scale Transformed Power Prior for Use with Historical Data from a Different Outcome Model,” *Statistics in Medicine*, 2023; in press.
359. Xu, J, Psioda, MA, Ibrahim, JG, “Bayesian Design of Clinical Trials Using Joint Cure Rate Models for Longitudinal and Time-to-event Data,” *Lifetime Data Analysis*, 2023; in press.
360. Shen, Y, Psioda, MA, Ibrahim, JG, “BayesPPD: An R Package for Bayesian Sample Size Determination Using the Power and Normalized Power Prior for Generalized Linear Models,” *The R Journal*, 2023; in press.
361. Bean, N, Ibrahim, JG, Psioda MA, “Bayesian Design of Multi-Regional Clinical Trials with Time-to-Event Endpoints,” *Biometrics*, 2023; in press.

Books:

1. Chen, MH, Shao, QM, Ibrahim, JG, *Monte Carlo Methods in Bayesian Computation*, 2000; Springer-Verlag.
2. Ibrahim, JG, Chen, MH, Sinha, D, *Bayesian Survival Analysis*, 2001; Springer-Verlag.

Edited Books:

1. *Handbook of Survival Analysis*, 2013; CRC Press. Editors: Klein, JP, van Houwelingen, HC, Ibrahim, JG, and Scheike, TH.

Refereed Book Chapters:

1. Ibrahim JG and Laud PW. "On Predictive Approaches to Model Selection," *Studies in Bayesian Econometrics and Statistics*, (eds. D.A. Berry, K.M. Chaloner, J.K. Geweke), 1996; 349–358.
2. Ibrahim, JG, and Kleinman, KP, "Semi-Parametric Bayesian Methods for Random Effects Models," *Practical Nonparametric and Semiparametric Bayesian Statistics*, (eds. D. Dey, P. Muller, D. Sinha), Springer-Verlag, 1998; 89–114.
3. Ibrahim, JG, and Sinha, D, "Prior Elicitation for Semi-Parametric Survival Analysis," *Practical Nonparametric and Semiparametric Bayesian Statistics*, (eds. D. Dey, P. Muller, D. Sinha), Springer-Verlag, 1998; 273–292.
4. Ibrahim, JG, and Sinha, D, discussion of "Bayesian Model Choice: What and Why?," in *Bayesian Statistics 6*, (eds. J. Bernardo, J. Berger, P. Dawid, and A. F. M. Smith), Oxford University Press, 1999; pp. 364.
5. Ibrahim, JG, and Chen, MH, "Prior Elicitation and Variable Selection for Generalized Linear Mixed Models," *Generalized Linear Models: A Bayesian Perspective*, (eds. D. Dey, M. Ghosh, and B. Mallick), Marcel-Dekker, 2000; 41–56.
6. Ibrahim, JG, and Chen, MH, "Bayesian Methods for Time Series Count Data," *Generalized Linear Models: A Bayesian Perspective*, (eds. D. Dey, M. Ghosh, and B. Mallick), Marcel-Dekker, 2000; 163–176.
7. Ibrahim, JG, and Chen, MH, "Bayesian Methods for Variable Selection in The Cox Model," *Generalized Linear Models: A Bayesian Perspective*, (eds. D. Dey, M. Ghosh, and B. Mallick), Marcel-Dekker, 2000; 295–320.
8. Morales, KH, Ibrahim, JG, Ryan, LM, Chen, CJ, "Bayesian Model Averaging with Applications to the Risk Assessment for Arsenic in Drinking Water," *Arsenic Exposure and Health Effects*, (eds. W. R. Chappell, C. O. Abernathy, and R. L. Calderon), 2001; 145–151.
9. Sinha, D., Chen, MH, and Ibrahim, JG, "Bayesian Inference for Survival Data with a Surviving Fraction," *Crossing Boundaries: Statistical Essays in Honor of Jack Hall*, Editors: J. E. Kolassa and D. Oakes, Institute of Mathematical Lecture Note Series, 2003; **43**, 117–138.
10. Tadesse, MG, and Ibrahim, JG, "A Bayesian Hierarchical Model for the Analysis of Affymetrix Arrays," *Applications of Bioinformatics in Cancer Detection*, 2004; **1020**, 41–48.

11. Ibrahim, JG, Chen, MH, and Sinha, D, “Bayesian Survival Analysis,” *Encyclopedia of Biostatistics*, Editors: P. Armitage and T. Colton, 2005; **1**, 352–366.
12. Ibrahim, JG, Chen, MH, and Sinha, D (2005), “Bayesian Approaches to Cure Rate Models,” *Encyclopedia of Biostatistics*, Editors: P. Armitage and T. Colton, 2005; **1**, 306–313.
13. Ibrahim, JG, and Chen, MH (2005), “Bayesian Model Selection in Survival Analysis,” *Encyclopedia of Biostatistics*, Editors: P. Armitage and T. Colton, 2005; **1**, 343–352.
14. Gentleman, R, Ding, D, Dudoit, S, and Ibrahim, JG, “Distance Measures in DNA Microarray Data Analysis,” *Bioinformatics and Computational Biology Solutions Using R and Bioconductor*, (Editors: R. Gentleman, V. Carey, W. Huber, R. Irizarry, and S. Dudoit), Springer-Verlag, 2005; 189–208.
15. Yin, G, and Ibrahim, JG, “Bayesian Transformation Hazard Models,” *The Second Erich L. Lehmann Symposium - Optimality*, Institute of Mathematical Statistics, Lecture Notes - Monograph Series, Volume 49, 2006, 170–182.
16. Gelfond, JAL, Ibrahim, JG, “Measurement Error and Survival Model for cDNA Microarrays,” *Bayesian Modeling in Bioinformatics*, (Editors: D.K. Dey, S. Ghosh, and B.K. Mallick), Chapman and Hall/CRC Press, 2010; 123–147.
17. Zhu, H, Ibrahim, JG, Cho H, Tang, N, “Bayesian Influence Methods,” *Frontiers of Statistical Decision Making and Bayesian Analysis*, (Editors: Ming-Hui Chen, Dipak K. Dey, Peter Mueller, Dongchu Sun, and Keying Ye), Springer-Verlag, 2010; 219–237.
18. Zhang, Y, Chen, Q, Chen, MH, Ibrahim, JG, Zeng, D, Pan, Z, and Xue, X, “Bayesian Analysis of Survival Data with Semi-competing Risks and Treatment Switching,” *Topics in Applied Statistics – 2012 Symposium of the International Chinese Statistical Association*, (Editors: M. Hu, Y. Liu, and J. Lin), Springer-Verlag, 2013; 135–145.
19. Ibrahim, JG, Chen, MH, Xia, H, Liu, T, and Hennessey, V, “Bayesian Meta-design for Evaluating Cardiovascular Risk,” *Quantitative Evaluation of Safety in Drug Development: Design, Analysis and Reporting*, (Editors: Q. Jiang and H. Amy Xia), Chapman and Hall, 2015; 13–37.
20. Zhang, D, Chen, MH, Ibrahim, JG, Boye, ME, and Shen, W, “Assessment of Fit in Longitudinal Data for Joint Models with Applications to Cancer Clinical Trials,” *Recent Advances in Applied Statistics – Selected Papers from 2013 ICSA/ISBS Joint Statistical Meetings*, (Editors: Z. Chen, A. Liu, Y. Qu, L. Tang, N. Ting, and Y. Tsong), Springer-Verlag, 2015; 347–365.
21. Ibrahim, J.G., Gwon, Y., and Chen, M.-H, “SAS Macro BSMED: Bayesian Survival Meta-Experimental Design Using Historical Data,” *Modern Approaches to Clinical Trials Using SAS: Classical, Adaptive, and Bayesian Methods*, (Editors: S.M. Menon and R.C. Zink), 2016; Cary, NC: SAS Institute Inc., pp 107-131.

Refereed Conference Proceedings:

1. Zhu, H, Li, YM, Ibrahim, JG, Lin, W, Shen, D, “MARM: multiscale adaptive regression for neuroimaging data,” *Information Processing in Medical Imaging (IPMI)*, 2009; **21**:314-325, (acceptance rate < 30%).
2. Shi, X, Styner, M, Liberman J, Ibrahim, JG, Lin, W, and Zhu, H, “Intrinsic Regression Models for Manifold-valued Data,” *International Conference on Medical Imaging Computing and Computer Assisted Intervention (MICCAI)*, 2009; **12**:192-199, (acceptance rate < 30%).

Submitted for Publication

1. Wang, Y, Ibrahim, JG, and Zhu, H, “RAPLS: Residual-based Alternative Partial Least Squares for Functional Regression Models,” submitted.
2. Lim, DK, Rashid, NU, Oliva, J, Ibrahim, JG, “Unsupervised Imputation of Non-ignorably Missing Data Using Importance-Weighted Autoencoders,” submitted.
3. Sheikh, T, Chen, MH, Gelfond, JA, Sun, W, Ibrahim, JG, “New Bayesian C-indices for Assessing Importance of Longitudinal Biomarkers in Fitting Competing Risks Survival Data in the Presence of Partially Masked Causes,” submitted.
4. Tan, X, Wang, W, Liu, GF, Zeng, D, Diao, G, Ibrahim, JG, “Detecting Safety-vaccine Association from VAERS Data with Complex and High Dimensional Confounding,” submitted.
5. Alt, EM, Nifong, B, Chen, X, Psioda, MA, Ibrahim, JG, “The Scale Transformed Power Prior for Time-To-Event Data,” submitted.
6. Diao, G, Jiang, X, Zeng, D, Mo, M, Xia, HA, Ibrahim, JG, “Improving Power in Adaptive Expansion of Biomarker Populations in Phase 3 Clinical Trials,” submitted.
7. Wang, X, Rao, S, Cheng, J, Wu, Y, Yap, PT, Ibrahim, JG, “Spatially Robust Adaptive Ensemble Average Propagator Reconstruction via Spherical Polar Fourier Imaging,” submitted.
8. Alt, E, Psioda, MA, Ibrahim, JG, “A Bayesian Approach to Multiple Testing, Analysis, and Study Design for Response Variables of Mixed Types”, submitted.
9. Wang, X, Sun, Q, An, B, Ibrahim, JG, Zhu, H, “A Two-stage Sparse and Adaptive Smoothing Model for Neuroimaging Data Analysis, submitted.
10. Gwon, Y, Chen, MH, Mo, M, Jiang, X, Xia, HA, Ibrahim, JG, “Bayesian Network Meta-Regression for Aggregate Ordinal Outcomes with Missing Categories: Applications in Comparing Crohn’s Disease Treatments,” submitted.

11. Chen, X, Nifong, B, Alt, EM, Psioda, MA, Ibrahim, JG, "Bayesian Design of Clinical Trials Using the Scale Transformed Power Prior," submitted.
12. Lim, DK, Rashid, NU, Oliva, JB, Ibrahim, JG, "Deeply-Learned Generalized Linear Models with Missing Data, submitted.
13. Cho, S, Psioda, MA, Ibrahim, JG, "Bayesian Joint Modeling of Multivariate Longitudinal and Survival Outcomes using Gaussian Copulas," submitted.
14. Hauser, P, Tan, X, Chen, F, Ibrahim, JG, "Bayesian Generalized Linear Low Rank Regression Models for the Detection of Vaccine-Adverse Event Associations," submitted.
15. Bean, NW, Ibrahim, JG, Psioda, MA, "Bayesian joint models for multi-regional clinical trials," submitted.
16. Heiling, H, Rashid, NU, Li, Q, Ibrahim, JG, "glmmPen: High Dimensional Penalized Generalized Linear Mixed Models," submitted.
17. Vincent, BG, File, DM, McKinnon, KP, Moore, D, Frelinger, JA, Collins, E, Ibrahim, JG, Bixby, L, Reisdorf, S, Laurie, S, Park, Y Anders, C, Collichio, F, Muss, H, Carey, LA, van Deventer, HW, Dees, EC, Serody, JS, "A phase I/II trial evaluating the efficacy of a multiepitope dendritic cell vaccine given with trastuzumab and vinorelbine for the treatment of women with metastatic breast cancer who express HLA-A0201 and whose tumors express/overexpress HER2, submitted.
18. Shen, Y, Carvalho, LM, Psioda, MA, Ibrahim, JG, "Optimal Priors for the Discounting Parameter of the Normalized Power Prior," submitted.
19. Quinter, A, Tan, X, Zeng, D, Ibrahim, JG, "Joint Sparse Factor Regression Models for Analyzing High-Dimensional Data," submitted.

SHORT COURSE PRESENTATIONS at WNAR, ENAR, and JSM

1. "Monte Carlo Methods in Bayesian Computation," (with M.-H. Chen). Presented at the 2001 WNAR meetings.
2. "Monte Carlo Methods in Bayesian Computation," (with M.-H. Chen). Presented at the 2001 JSM meetings.
3. "Bayesian Survival Analysis," (with M.-H. Chen), Presented at the 2002 ENAR meetings.
4. "Bayesian Survival Analysis," (with M.-H. Chen), Presented at the 2003 JSM meetings.
5. "Missing Data in Regression Models," (with M.-H. Chen), Presented at the 2004 JSM meetings.

6. "Missing Data in Regression Models," (with M.-H. Chen), Presented at the 2007 ENAR meetings.
7. "Bayesian Methods in SAS," presented at the 2010 ENAR meetings.
8. "Missing Data in Regression Models," presented at the 2011 ENAR meetings.
9. "Joint Models for Longitudinal and Survival Data" presented at the 2014 ENAR meetings.
10. "Missing Data in Regression Models," presented at the 2014 JSM meetings.
11. "Joint Models for Longitudinal and Survival Data" presented at the 2015 JSM meetings.
12. "Missing Data in Regression Models," presented at the 2016 ENAR meetings.
13. "Introduction to Bayesian Methods, Modeling, and Computation," two-day short course presented at the 2016 JSM meetings.
14. "Introduction to Bayesian Methods for Clinical Trial Design and Sample Size Determination," 2022 ENAR Meetings.
15. "Introduction to Bayesian Methods for Clinical Trial Design and Sample Size Determination," 2022 International Society of Bayesian Analysis (ISBA) World Meeting.
16. "Introduction to Bayesian Methods for Clinical Trial Design and Sample Size Determination," 2022 JSM Meetings.

INVITED PRESENTATIONS at ENAR and JSM

1. "Transformations and Variable Selection in Bayesian Linear Regression," 1991 JSM meetings.
2. "Predictive Model Selection," 1992 JSM meetings.
3. "Predictive Specification of Prior Model Probabilities in Variable Selection," 1994 JSM meetings.
4. "Properties of Predictive Priors in Linear Models," 1995 JSM meetings.
5. "Bayesian Predictive Simultaneous Variable and Transformation Selection in the Linear Model," 1996 JSM meetings.
6. "Bayesian Variable Selection for Generalized Linear Mixed Models," 1997 WNAR meetings.
7. "Bayesian Variable Selection for Generalized Linear Mixed Models," 1997 JSM meetings.

8. "Criterion Based Methods for Bayesian Survival Analysis ," 1998 ENAR meetings.
9. "Prior Elicitation, Variable Selection and Bayesian Computation for Logistic Regression Models," 1998 JSM meetings.
10. "Prior Elicitation for Model Selection and Estimation in Generalized Linear Mixed Models," 1999 ENAR meetings.
11. "Bayesian Cure Rate Models for Malignant Melanoma: A Case Study of Eastern Cooperative Oncology Group Trial E1690", 1999 Harvard-Schering Plough Workshop.
12. "Prior Elicitation for Model Selection and Estimation in Generalized Linear Mixed Models," 1999 JSM meetings.
13. "A New Bayesian Model for Survival Data with a Surviving Fraction," 2000 ENAR meetings.
14. "Missing Responses in Generalized Linear Mixed Models When The Missing Data Mechanism is Nonignorable," 2000 Harvard-Schering Plough Workshop.
15. "Criterion Based Methods for Bayesian Model Assessment," 2000 JSM meetings.
16. "Bayesian Semi-parametric Models for Survival Data with a Cure Fraction", 2001 ENAR meetings.
17. "Missing Data Methods for Regression Models, 2001 JSM meetings.
18. "Bayesian Models for Gene Expression with DNA Microarray Data," 2002 ENAR meetings.
19. "The Relationship Between the Power Prior and Hierarchical Models," 2002 Bayesian Statistics VII meetings in Valencia, Spain.
20. "A Bayesian Approach to False Discovery Rate Control," 2003 JSM meetings.
21. "A New Class of Mixture Models for DNA Microarray Data," 2004 ENAR Meetings.
22. "A New Class of Mixture Models for DNA Microarray Data," 2004 ISBA World Meeting.
23. "Posterior Propriety and Computation for the Cox Regression Model With Applications to Missing Covariates," 2005 JSM meetings.
24. "Variable Selection in Regression Mixture Modeling for the Discovery of Gene Regulatory Networks," 2006 ICSA meetings.
25. "Variable Selection in Regression Mixture Modeling for the Discovery of Gene Regulatory Networks," 2006 JSM meetings.
26. "Prior Elicitation and Variable Selection for High Dimensional Data in Regression Models," 2007 ENAR Meetings.

27. "Prior Elicitation and Variable Selection for High Dimensional Data in Regression Models," 2007 ICSA Meetings.
28. "Prior Elicitation and Variable Selection for High Dimensional Data in Regression Models," 2007 JSM Meetings.
29. "A Bayesian Hidden Markov Model for Motif Discovery Through Joint Modeling of Genomic Sequence and ChIP-Chip Data," 2008 ENAR Meetings.
30. "A Bayesian Hidden Markov Model for Motif Discovery Through Joint Modeling of Genomic Sequence and ChIP-Chip Data," 2008 JSM Meetings.
31. "Transformation Models with Gamma-Frailty for Multivariate Survival Times," 2009 ENAR Meetings.
32. "Transformation Models with Gamma-Frailty for Multivariate Survival Times," 2009 JSM Meetings.
33. "Sample Size Determination for Joint Models of Longitudinal and Survival Data," 2010 ENAR meetings.
34. "Bayesian meta-experimental design: evaluating cardiovascular risk in new antidiabetic therapies to treat Type 2 diabetes", 2011 ENAR meetings.
35. "Bayesian Influence Analysis and its Applications," 2012 ENAR meetings.
36. "Bayesian Sequential Meta-Analysis Design in Evaluating Cardiovascular Risk in a New Antidiabetic Drug Development Program", 2013 ENAR meetings.
37. "Bayesian Influence Measures for Joint Models of Longitudinal and Survival Data", 2013 JSM meetings.
38. "Bayesian Probability of Success for Clinical Trials Using Historical Data," 2014 ENAR Meetings.
39. "Statistical Methodology collaborations with Pharmaceuticals: Solving Important and Cutting Edge Applied Problems in Biomedical Research," 2014 JSM meetings.
40. "Bayesian Shrinkage Methods for High Dimensional Data," 2015 ENAR Meetings.
41. "The Power Prior: Theory and Applications," 2015 JSM Meetings.
42. "Bayesian Design of Superiority Clinical Trials for Recurrent Events Data with Applications to Bleeding and Transfusion Events in Myelodysplastic Syndrome," 2016 ENAR Meetings.
43. "Bayesian Model Assessment in Joint Modeling of Longitudinal and Survival Data with Applications to Cancer Clinical Trials," 2016 JSM Meetings.

44. "Bayesian Clinical Trial Design for Joint Models of Longitudinal and Survival Data," 2017 JSM Meetings.
45. "Bayesian Inference for Network Meta-Regression Using Multivariate Random Effects with Applications to Cholesterol Lowering Drugs," 2018 ENAR Meetings.
46. "Bayesian Network Meta-Regression for Ordinal Outcomes," 2019 ENAR Meetings.
47. "Bayesian Inference for Network Meta-Regression Using Multivariate Random Effects with Applications to Cholesterol Lowering Drugs," 2019 JSM Meetings.
48. "Bayesian Design Using Historical Data that Inform the Treatment Effect with Applications to Cure Rate Models," 2020 ENAR Meetings.
49. "Assessment of Homogeneity and Consistency for Network Meta-Analysis," 2021 JSM Meetings.
50. "Bayesian Design of Clinical Trials Using Joint Models for Recurrent and Terminating Events, 2022 ENAR Meetings.
51. "The Scale Transformed Power Prior for Use with Historical Data from a Different Outcome Model," 2022 JSM Meetings.