

Scott Matthew Berry

Curriculum Vitae

Contact Information

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Education

1994	PhD in Statistics, Carnegie Mellon University, Pittsburgh, PA; Thesis Advisor, Joseph B. Kadane; Dissertation: "Discrete Search for Intelligent Objects."
1991	MS in Statistics, Carnegie Mellon University, Pittsburgh, PA
1990	BS in Mathematics, University of Minnesota, Minneapolis, MN; Graduated with <i>Distinction</i>

Job Experience

2007-present	President, Berry Consultants
2000-present	Statistical Scientist, Berry Consultants
1995-2000	Assistant Professor, Department of Statistics, Texas A&M University
1994-1995	Visiting Assistant Professor (joint) Statistics and Social and Decision Sciences, Carnegie Mellon University

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Professional Positions

2011	Associate Editor, <i>The American Statistician</i>
2004	Chair, Statistics and Sports section of the ASA
2001	Program Chair, Statistics and Sports section of the ASA
2000	President, South East Texas Chapter of the ASA
1999-2006	Columnist, <i>A Statistician Reads the Sports Pages, Chance</i>
1998	Senior Associate Editor, <i>Chance</i>
1996-1997	Associate Editor, <i>Chance</i>

Recognition and Awards

1. 2010 Excellence-in-CE Award Winner. JSM Short Course "Bayesian Adaptive Methods in Clinical trials". Joint with Don Berry, Brad Carlin, and Jack Lee.
2. Statistics in Sports Award, Statistics in Sports section of the American Statistical Association
3. *Journal of the American Statistical Association*, Applications and Case Studies Invited Paper Award, 1999.
4. Won first prize for best speaker at the Graduate Student Seminar Series in Statistics and Biostatistics, Carnegie Mellon University, 1993.

Books

1. **Berry SM**, Carlin, BP, Lee, JJ, and Mueller, P (2010) *Bayesian Adaptive Methods for Clinical Trials*, Chapman & Hall.

Book Chapters

1. **Berry, SM** (2010) Is Tiger Woods a Winner? *Mathematics and Sports*. The Mathematical Association of America. Edited by Joe Gallian.
2. **Berry SM** (2000) Meta-Analysis vs. Large Trials: Resolving the Controversies," *Meta-Analysis in Medicine and Health Policy*, Marcel Dekker, Inc. D.K. Stangl and D.A. Berry, Editors.

Refereed Publications

1. **Berry SM**, Broglio, KR, and Connor, JT (2011) Combining Risk Difference and Risk Ratio in Non-Inferiority Safety Trials, to appear in *Journal of Biopharmaceutical Research*.
2. **Berry, SM**, Broglio, KR, and Berry, DA (2011) Addressing the Incremental Benefit of Histamine Dihydrochloride When Added to Interleukin-2 in Treating Acute Myeloid Leukemia: A Bayesian Meta-

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- Analysis, *Cancer Investigation*, 29: 293-299.
3. **Berry SM**, Ishak KJ, Luce BR, Berry DA (2010) Bayesian Meta-analyses for comparing effectiveness and informing coverage decisions, *Medical Care*, 48 (6): 137-144.
 4. **Berry SM**, Spinelli W, Littman GS, Liang JZ, Fardipour P, Berry DA, Lewis R, and Krams M (2010) A Bayesian dose-finding trial with adaptive dose expansion to flexibly assess efficacy and safety of an investigational drug, *Journal of Clinical Trials*, 7:121-135.
 5. Castro M, Rubin AS, Laviolette M, Fiterman J, Lima MDA, Shah PL, Fiss E, Olivenstein R, Thomson NC, Niven RM, Pavord ID, Simoff M, Duhamel DR, McEvoy C, Barbers R, ten Hacken NHT, Wechsler ME, Holmes M, Phillips MJ, Erzurum S, Lunn W, Israel E, Jarjour N, Kraft M, Shargill NS, Quiring J, **Berry SM**, and Cox G for the AIR2 Trial Study Group (2010) Effectiveness and Safety of Bronchial Thermoplasty in the Treatment of Severe Asthma: A Multicenter, Randomized, Double-Blind, Sham-Controlled Clinical Trial, *American Journal of Respiratory and Critical Care Medicine*, 181: 116 - 124.
 6. Wilber DJ, Pappone C, Neuzil P, De Paola A, Marchlinski F, Natale A, Macle L, Daoud EG, Calkins H, Hall B, Reddy V, Augello G, Reynolds MR, Vinekar C, Liu CY, **Berry SM**, Berry DA; ThermoCool AF Trial Investigators (2010) Comparison of antiarrhythmic drug therapy and radiofrequency catheter ablation in patients with paroxysmal atrial fibrillation: a randomized controlled trial. *Journal of the American Medical Association*;303(4):333-40.
 7. **Berry SM**, Viele K (2008) A note on hypothesis testing with random sample sizes and its relationship to Bayes factors, *Journal of Data Science*, 6(1):75-88.
 8. Julian TB, Blumencranz P, Deck K, Whitworth P, Berry DA, **Berry SM**, Rosenberg A, Chagpar AB, Reintgen D, Beitsch P, Simmons R, Saha S, Mamounas EP, Giuliano A. (2008) A Novel Intra-operative Molecular Test for Sentinel Lymph Nodes Metastases in Early Stage Breast Cancer Patients, *Journal of Clinical Oncology*, 26(20):3338-3345.
 9. **Berry SM**, Berry DA (2004) Accounting for multiplicities in assessing drug safety: A three-level hierarchical mixture model, *Biometrics* 2004; 60(2):418-426.
 10. **Berry SM**, Berry DA, Natarajan K, Lin C-S, Hennekens CH, Belder R (2004). Bayesian survival analysis with nonproportional hazards: Metanalysis of pravastatin-aspirin. *Journal of the American Statistical Association* 99:36-44.
 11. Hennekens CH, Sacks FM, Tonkin A, Jukema JW, Byington RP, Pitt B, Berry DA, **Berry SM**, Ford NF, Walker AJ, Natarajan K, Lin C-S, Fiedorek FT, Belder R (2004). Additive benefits of pravastatin and aspirin to decrease risks of cardiovascular disease: Randomized and

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- observational comparisons of secondary prevention trials and their meta-analysis. *Archives of Internal Medicine* 164:40-44.
12. Berry DA, **Berry SM**, McKellar JJ, Pearson T (2003). Bayesian dose-response meta-analysis comparing LDL-C lowering of rosuvastatin and atorvastatin. *American Heart Journal*. 145:1036-1045.
 13. **Berry SM**, Carroll RJ, Ruppert D (2002) Bayesian smoothing and regression splines for measurement error problems, *Journal of the American Statistical Association* 97:160-169.
 14. White C, **Berry SM** (2002) Tiered polychotomous regression: Ranking NFL quarterbacks, *The American Statistician*, 56: 10-21.
 15. **Berry SM** (2000) Catching a Tiger by the tail, *ESPN the Magazine*, April 4: 62-64.
 16. Cohen ND, **Berry SM**, Peloso JG, Mundy GD, Howard IC (2000) A case-control study of association of high-speed exercise with racing injury in thoroughbred horses, *Journal of the American Veterinary Medical Association*, 216 (8): 1273-1278.
 17. **Berry SM**, Reese CS, Larkey PL (1999) Bridging different eras in sports, *Journal of the American Statistical Association* 94:661-686 (with discussion, rejoinder).
 18. Pally A, **Berry SM** (1999) A decision analysis for an end of phase II go/stop decision, *Drug Information Journal*, 33: 821-833.
 19. **Berry SM**, Hadjicostas P (1999) Improper and proper posteriors with improper priors in a Poisson-gamma hierarchical model, *TEST*, 8:147-166.
 20. **Berry SM** (1998) Understanding and testing for heterogeneity across 2x2 tables: application to meta-analysis, *Statistics in Medicine*, 17:2353-2369.
 21. **Berry SM**, Larkey PL (1998) Ageing and performance in golf, *Proceedings of the World Scientific Congress of Golf*.
 22. **Berry SM**, Kadane JB (1997) Optimal Bayesian randomization, *Journal of the Royal Statistical Society, Series B*, 59 (4): 813-819.
 23. **Berry SM** (1996) Discussion: Quantifying and using expert opinion for variable-selection problems in regression, *Chemometrics and Intelligent Laboratory Systems*, 35: 33-36.
 24. **Berry SM** (1996) Discrete search for an intelligent object: The leprechaun's problem, *Probability in the Engineering and Informational Sciences*, 10: 363-376.
 25. Kadane JB, **Berry SM** (1995) Optimal whereabouts search, *Military Operations Research Analysts Handbook*, D. Wagner, Editor.
 26. **Berry SM** (1991) The summer of '41: A probabilistic analysis of DiMaggio's 'streak' and Williams's average of .406, *Chance*, 4 (4): 8-11.

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Columns

1. **Berry SM** (2006) Statistical Fallacies in Sports, *Chance*, 19 (4)
2. **Berry SM** (2006) Does defense win championships?, *Chance*, 19 (2)
3. **Berry SM** (2006) Budgets and baseball concave or convex: Winning the salary game, *Chance*, 19 (1).
4. **Berry SM** (2005) Winning isn't everything; it's the only thing, *Chance*, 18 (3).
5. **Berry SM** (2005) Is second place really the first loser?, *Chance*, 18 (2).
6. **Berry SM** (2005) Nature, nurture, or culture, *Chance*, 18 (1).
7. **Berry SM** (2004) the cold-foot effect, *Chance*, 17 (4).
8. **Berry SM** (2004) Hired to be fired, *Chance*, 17 (2).
9. **Berry SM** (2004) The Black Cat Unmasked, *Chance*, 17 (1).
10. **Berry SM** (2003) A game of which I am not familiar, *Chance*, 16 (4).
11. **Berry SM** (2003) College Football Rankings: The BCS and the CLT, *Chance*, 16 (2).
12. **Berry SM** (2003) The Great One, *Chance*, 16 (1).
13. **Berry SM** (2002) A Juiced Analysis, *Chance*, 15 (4).
14. **Berry SM** (2002) Read During Your Leisure Time, *Chance*, 15 (3).
15. **Berry SM** (2002) One Modern Man or 15 Tarzans?, *Chance*, 15 (2).
16. **Berry SM** (2002) Turn! Turn! Turn!, *Chance*, 15 (1).
17. **Berry SM** (2001) The Relative Sizes of MLB Strike Zones, *Chance*, 14 (4).
18. **Berry SM** (2001) How Ferocious is Tiger?, *Chance*, 14 (3).
19. **Berry SM** (2001) Do You Feel a Draft in Here?, *Chance*, 14 (2).
20. **Berry SM** (2001) Luck in Sports, *Chance*, 14 (1).
21. **Berry SM** (2000) Modeling Offensive Ability in Baseball, *Chance*, 13 (4).
22. **Berry SM** (2000) My Triple Crown, *Chance*, 13 (3).
23. **Berry SM** (2000) Statistics and the Pokemon Craze: Trying to Impress My Kids, *Chance*, 13 (2).
24. **Berry SM** (2000) Modeling Acceptance to the Major League Baseball Hall of Fame, *Chance*, Vol 13 (1).
25. **Berry SM** (1999) Drive for Show and Putt for Dough, *Chance*, 12 (4).
26. **Berry SM** (1999) A Geometry Model for NFL Field Goal Kickers, *Chance*, 12 (3).
27. **Berry SM** (1999) Predicting the 1999 Home Run Race, *Chance*, 12 (2).
28. **Berry SM** (1999) Does the Zone Exist for Home Run Hitters?, *Chance*, 12 (1).

Letters and Comments

1. Connor, JT, Lewis, RL, Berry, DA, and Berry SM (2011) Letter to the

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editor on Zuckerman DM, Brown P, Nissen SE. Medical device recalls and the FDA approval process, *Arch Intern Med.* 2011; 171(11):1006-1011. Published June 13, 2011.

2. **Berry SM, Carlin BP, Connor J** (2010) Letter to the editor on "Stopping Randomized Trials Early for Benefit and Estimation of Treatment Effects: Systematic Review and Meta-regression Analysis," by D. Bassler et al., *JAMA*, 2010.

Invited Presentations

1. "15 Tarzans or 1 Modern Man: Why are athletes today better than in years past?", *JSM 2011*, Miami, FL, August, 2011.
2. "Bayesian Goldilocks Designs: Getting the Sample Size *Just Right*", NJ Chapter of the ASA Spring Symposium, June, 2011.
3. "An Introduction to Adaptive Clinical Trial Designs", Bill & Melinda Gates Foundation, PDP Forum, Seattle, WA, May, 2011.
4. "An Introduction to Adaptive Clinical Trial Designs", Bill & Melinda Gates Foundation, PDP Forum, Geneva, Switzerland, February, 2011.
5. "Adaptive Designs for Borrowing from a Historical Control", ADVAMED, April 2011.
6. "Synthesis of Randomized Controlled Trials for Product Safety Evaluation: Heterogeneity", DIA/FDA Best Practices for Regulatory Information Synthesis of Randomized Controlled Trials for Product Safety Evaluation, Washington, DC, March 2011.
7. "Designing Bayesian Software for Adaptive Clinical Trials", Bayesian Biostatistics Conference, Houston, TX, January, 2011.
8. "What Drug Developers and the Medical Community Could Learn from Sports", 66th Annual Deming Conference on Applied Statistics, Atlantic City, NJ, December 2010.
9. "Challenges in Design and Analysis of Medical Devices for MRCT's", "Bayesian Adaptive Designs in Practice", Vancouver, BC, Canada, *JSM 2010*. DIA/FDA Best Practices: Ensuring Quality and Balancing Risks for Multiregion Clinical Trials: Statistical, Clinical, Regulatory, and Ethical Factors.
10. "Bayesian Adaptive Designs for FDA Required Safety Studies", Washington, DC, FDA/Industry Workshop, 2010.
11. "Is Tiger Woods a Winner?" Mathematics Association of America, Washington, DC, April, 2010.
12. "Bayesian Methods for Confirmatory Trials", Bayesian Biostatistics Conference, Houston, TX, January, 2010.
13. "Bayesian Adaptive Methods for Clinical Trials", Washington, DC, 8th International Conference on health Policy Statistics, January, 2010.

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14. "An Overview of Bayesian Methods in Clinical Trials", Midwest Biopharmaceutical Workshop, May 2009.
15. "Bayesian Adaptive Designs in Medical Device Trials", ENAR, San Antonio, TX, March, 2009.
16. "Designing Prospective Studies from Positive Subsets", Bayesian Biostatistics Conference, Houston, TX, January, 2009.
17. "Bayesian Adaptive Dose-Finding", University of Tokyo, Tokyo, Japan, December, 2008.
18. "Bayesian Adaptive Designs", Japanese Society of Biometrics, Tokyo, Japan, December, 2008.
19. "Adaptive Techniques in Medical Device Trials," FDA/Industry Workshop, Washington DC, September 2008.
20. "Bayesian methods for diagnostics: A case study registration trial", JSM, August 2008.
21. "Bayesian Biostatistics, Clinical Trials, Adaptive Designs", BYU Summer Institute, June 2008.
22. "Bayesian Meta-analysis: designing prospective studies from positive subsets", Midwest Biopharmaceutical Workshop, May 2008.
23. "Bayesian techniques in medical device trials: A consultant's view", Bayesian Biostatistics Conference, January 2008.
24. "Bayesian techniques in medical device trials: A consultant's view", Advamed/FDA Conference, April 2008.
25. "Bayesian drug development", short course, Bayesian Biostatistics Conference, January 2008.
26. "Is Tiger Woods a winner?" Statistics in Sports Award Luncheon, JSM, August 2007.
27. "Constructing Bayesian trials in a type I error controlled regulatory world: The good, the bad, and the ugly", Special contributed paper, JSM, August 2007.
28. "Bayesian Trial Designs: Opportunities and Challenges for Developing Comparative Effectiveness Evidence", Academy Health Annual Research Meeting, June, 2007.
29. "Seamless phase II & III: Smaller, stronger, faster", ENAR, March 2007.
30. "Bayesian Adaptive Dose Finding Studies: Smaller, stronger, faster", FDA/Industry Workshop, September, 2006.
31. "Bayesian Clinical Trials", 22nd Annual NICASA Summer Workshop, June 2006.
32. "Adaptive Dose Finding Trials: Finding the "Best" Dose", SRCOS, May 2006.
33. "Bayesian Clinical Trials", Short Course, Kansas City Chapter of the ASA, April 2006.
34. "Bayesian Clinical Trials", Short Course, BASS, November 2005.
35. "Muscle Memory: Statistical reasoning through sports", JSM, August

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2005.

36. "Bayesian Clinical Trials", Short Course, JSM, April 2005.
37. "Bayesian Clinical Trials", Short Course, WNAR, June 2005.
38. "Competitive Balance in Golf", JSM, August 2004.
39. "Does Use of a Bayesian Approach Help to Confirm or Reject the Reported Mortality Benefit of Abciximab in Percutaneous Coronary Intervention?", American Heart Association, November 2003.
40. "Bayesian Biostatistics: From the Ivory Tower to the Real World," Salt Lake City chapter of the ASA, Utah, January, 2003.
41. "Bridging Different Eras in Sports," Statistics in Sports Conference, Miami University, Oxford, Ohio, September 2001.
42. "Bayesian Biostatistics," Northern Illinois Section of the ASA yearly meeting. Chicago, IL, July 2001.
43. "A Bayesian look at Intention-to-Treat vs. As-Treated Analysis," Society of Clinical Trials, Denver, CO, May 2001.
44. "A Bayesian Medical Device Equivalency Trial," Society of Clinical Trials, Denver, CO, May 2001.
45. Houston Chapter of the ASA "Bridging Different Eras in Sports," Rice University, Houston, Texas, September 2000.
46. "Bridging Different Eras in Sports," Applications and Case Studies Invited Paper Award, JSM, Baltimore, MD, August 1999.
47. "Rating NFL Quarterbacks with a Markov Chain Model," Baltimore, MD, August 1999.
48. "Markov Chain Monte Carlo Methods Concerning Measurement Error Cases (MCMCMCMC)," SRCOS, Mountain View, AK, June 1999.
49. "A Sports Time Machine," INFORMS, Cincinnati, OH, May 1999.
50. "Bayesian Smoothing Splines in Measurement Error Problems: Application to Problems in Nutrition," Purdue Symposium, Purdue University, June 1998.
51. "Updating MCMC Observations from Sequential Data," WNAR, San Diego, CA, June 1998.
52. "A Decision Analysis of Phase III in the Drug Development Process," special contributed paper, Anaheim, CA, August 1997.
53. "Combining Disparate Sources of Information," ENAR, Memphis, TN, March 1997.
54. "A Decision Analysis of Phase III in the Drug Development Process," ENAR-NSF Bayesian Meetings, Chicago, IL, May 1996.
55. "Hierarchical Models in Bayesian Meta-Analysis," special contributed paper, JSM, San Francisco, 1993.