James H. Albert

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ACADEMIC POSITIONS & DEGREES

2020–present   **Emeritus Professor, Bowling Green State University**
2018–2020   Professor, Bowling Green State University
1994–1995   Visiting Professor, Institute of Statistics and Decision Sciences, Duke University
1990–2018   Professor of Mathematics and Statistics, Bowling Green State University
1986–1987   Visiting Fellow, Faculty of Mathematical Studies, University of Southampton
1979–1985   Assistant Professor of Mathematics and Statistics, Bowling Green State University

Ph.D., Statistics, Purdue University, 1979 · M.S., Mathematical Statistics, Purdue University, 1977 · B.S., Mathematics, Bucknell University, 1975

HONORS & AWARDS

2018   Distinguished University Professor, Bowling Green State University
2015   Founders Award, American Statistical Association
2004   Significant Contributor to Statistics in Sports, ASA Section on Statistics in Sports
2001   The Sporting News–SABR Baseball Research Award for *Curve Ball*
2000   Fellow of the American Statistical Association

CITATION IMPACT

As of February 2026, publications have received **11,448 total citations** (**2,209 since 2021**). The article *"Bayesian analysis of binary and polychotomous response data"* (JASA 1993, with S. Chib) has received **4,647 citations** and was ranked #13 among the most-cited statistics papers since 1993 (Ryan & Woodall, 2005, *Journal of Applied Statistics*).

BOOKS

Authored Books

2024   *Analyzing Baseball Data with R*, 3rd ed. (with B. Baumer & M. Marchi). CRC Press.
2019   *Probability and Bayesian Modeling* (with M. Hu). Chapman and Hall/CRC.
2017   *Visualizing Baseball*. CRC Press (ASA–CRC Series on Statistical Reasoning in Science and Society).
2017   *Teaching Statistics Using Baseball*, 2nd ed. Mathematical Association of America.
2013   *Analyzing Baseball Data with R*, 1st ed. (with M. Marchi). CRC Press. [2nd ed. with B. Baumer, 2019]
2011   *R by Example* (with M. Rizzo). Springer.
2011   *Data Analysis and Probability for Teachers*.
2009   *Bayesian Computation with R*, 2nd ed. Springer. [Japanese translation, 2010]
2003   *Teaching Statistics Using Baseball*. Mathematical Association of America.
2001   *Curve Ball: Baseball, Statistics, and the Role of Chance in the Game* (with J. Bennett). Copernicus Books. [Revised paperback, 2003; Japanese translation, 2004]
2001   *Workshop Statistics: Discovery with Data, A Bayesian Approach* (with A. J. Rossman). Key College Press.
1999   *Ordinal Data Modeling* (with V. Johnson). Springer-Verlag.
1996   *Bayesian Computation Using Minitab*. Duxbury Press.

Edited Volumes

2017   *Handbook of Statistics in Sports* (with M. Glickman, R. Koning & T. Swartz). CRC Press.
2017   *Anthology of Statistics in Sports II* (with J. Bennett & J. Cochran). Oxford University Press.
2007   *Statistical Thinking in Sports* (with R. Koning). CRC Press.

2005   *Anthology of Statistics in Sports* (with J. Bennett & J. Cochran). SIAM.

SELECTED PEER-REVIEWED JOURNAL ARTICLES

Highly cited and representative articles are listed first, followed by a chronological list. Full list of 111 articles available on CV.

Highly Cited & Landmark Articles

Albert, J. H. & Chib, S. (1993). Bayesian regression analysis of binary and polychotomous response data. *Journal of the American Statistical Association*, **88, 657–667. [4,298 citations]**

Albert, J. H. & Chib, S. (1993). Bayesian inference of autoregressive time series with mean and variance subject to Markov jumps. *Journal of Business and Economic Statistics*, 11, 1–15.

Albert, J. H. & Chib, S. (1997). Bayesian tests and model diagnostics in conditionally independent hierarchical models. *Journal of the American Statistical Association*, 92, 916–925.

Albert, J. H. (1997). Bayesian testing and estimation of association in a two-way contingency table. *Journal of the American Statistical Association*, 92, 685–693.

Albert, J. H. & Chib, S. (1995). Bayesian residual analysis for binary response regression models. *Biometrika*, 82, 747–759.

Albert, J. H. (1992). Bayesian estimation of normal ogive response curves using Gibbs sampling. *Journal of Educational Statistics*, 17, 251–269.

Albert, J. H. (1992). A Bayesian analysis of a Poisson random effects model for home run hitters. *The American Statistician*, 46, 246–253.

Albert, J. H. (1994). Exploring baseball hitting data: what about those breakdown statistics? *Journal of the American Statistical Association*, 89, 1066–1074.

Journal Articles — Chronological

1981   Simultaneous estimation of Poisson means. Journal of Multivariate Analysis, 11, 400–417.

1981   Pseudo-Bayes estimation of multinomial proportions. Communications in Statistics, A, 10, 1587–1611.

1982   Mixtures of Dirichlet distributions and estimation in contingency tables (with A. K. Gupta). Annals of Statistics, 10, 1261–1268.

1983   Estimation in contingency tables using prior information (with A. K. Gupta). Journal of the Royal Statistical Society, Series B, 45, 60–69.

1983   Bayesian estimation methods for 2×2 contingency tables using mixtures of Dirichlet distributions (with A. K. Gupta). Journal of the American Statistical Association, 78, 708–717.

1984   Empirical Bayes estimation of a set of binomial probabilities. Journal of Statistical Computation and Simulation, 20, 129–144.

1985   Bayesian methods for binomial data with applications to a nonresponse problem (with A. K. Gupta). Journal of the American Statistical Association, 80, 167–173.

1987   Empirical Bayes estimation in contingency tables. Communications in Statistics, A, 16, 2459–2485.

1988   Computational methods using a Bayesian hierarchical generalized linear model. Journal of the American Statistical Association, 83, 1037–1045.

1989   Nuisance parameters and the use of exploratory graphical methods in a Bayesian analysis. The American Statistician, 43, 191–196.

1989   A Bayesian approach to some overdispersion models (with P. A. Pepple). Canadian Journal of Statistics, 17, 333–344.

1990   A Bayesian test for a two-way contingency table using independence priors. Canadian Journal of Statistics, 18, 347–363.

1992   Using a probability plot to summarize a unimodal posterior density. Computational Statistics and Data Analysis, 14, 193–205.

1992   A Bayesian analysis of a Poisson random effects model for home run hitters. The American Statistician, 46, 246–253.

1992   Bayesian estimation of normal ogive response curves using Gibbs sampling. Journal of Educational Statistics, 17, 251–269.

1993   Bayesian inference of autoregressive time series with mean and variance subject to Markov jumps (with S. Chib). Journal of Business and Economic Statistics, 11, 1–15.

1993   Bayesian regression analysis of binary and polychotomous response data (with S. Chib). Journal of the American Statistical Association, 88, 657–667.

1993   Teaching Bayesian statistics using sampling methods and MINITAB. The American Statistician, 47, 182–191.

1994   A Bayesian approach to estimation of GPAs of University of Iowa freshmen under order restrictions. Journal of Educational Statistics, 19, 1–22.

1994   Exploring baseball hitting data: what about those breakdown statistics? Journal of the American Statistical Association, 89, 1066–1074.

1995   Bayesian residual analysis for binary response regression models (with S. Chib). Biometrika, 82, 747–759.

1995   Teaching inference about proportions using Bayes and discrete models. Journal of Statistical Education, 3(3).

1996   A MCMC algorithm to fit a general exchangeable model. Communications in Statistics — Simulation and Computation, 25, 575–592.

1996   Bayesian selection of log-linear models. Canadian Journal of Statistics, 24, 327–347.

1997   Bayesian tests and model diagnostics in conditionally independent hierarchical models (with S. Chib). Journal of the American Statistical Association, 92, 916–925.

1997   Bayesian testing and estimation of association in a two-way contingency table. Journal of the American Statistical Association, 92, 685–693.

1997   Teaching Bayes' rule: a data-oriented approach. The American Statistician, 51, 247–253.

1998   The home run hitting of Mike Schmidt. Chance, 11, 3–11.

1999   Criticism of a hierarchical model using Bayes factors. Statistics in Medicine, 18(3), 287–305.

2000   Using a sample survey project to assess the Bayesian approach for teaching statistical inference. Journal of Statistics Education, 8(1).

2001   Using model/data simulations to detect streakiness (with P. Pepple). The American Statistician, 55, 41–50.

2001   Sequential ordinal modeling with applications to survival data (with S. Chib). Biometrics, 57(3).

2002   Teaching statistics using baseball. Journal of Statistics Education.

2003   Concepts of probability of college students. The American Statistician, 57.

2004   Streakiness in team performance. Chance, 17, 37–43.

2006   Pitching statistics, talent and luck, and the best strikeout seasons of all time. Journal of Quantitative Analysis of Sports, 2.

2007   Streaky hitting in baseball. Journal of Quantitative Analysis of Sports.

2009   Discrete Bayes with R. Technology Innovations in Statistics Education, 3(2).

2009   Comment on 'Hierarchical Bayesian Modeling of Hitting Performance in Baseball' (with P. Birnbaum). Bayesian Analysis, 4(4), 653–660.

2010   Baseball data at season, play-by-play, and pitch-by-pitch levels. Journal of Statistics Education, 18(3).

2010   Using the count to measure pitching performance. Journal of Quantitative Analysis of Sports, 6(4).

2011   Discrepancy measures for item fit analysis in item response theory (with S. Toribio). Journal of Statistical Computation and Simulation.

2013   Using fun in the statistics classroom (with L. Lesser et al.). Journal of Statistics Education.

2013   Looking at spacings to assess streakiness. Journal of Quantitative Analysis of Sports, 9(2), 151–163.

2014   Streakiness in home run hitting. CHANCE, 27(3), 4–9.

2015   Beyond runs expectancy. Journal of Sports Analytics, 1, 1–16.

2015   Introduction to Bayesian item response modelling. International Journal of Quantitative Research in Education, 2(3–4), 178–193.

2015   Player evaluation using win probabilities in sports competitions. Wiley Interdisciplinary Reviews: Computational Statistics, 7(5), 316–325.

2016   Improved component predictions of batting and pitching measures. Journal of Quantitative Analysis of Sports, 12(2).

2017   A multilevel Bayesian approach for modelling server-specific time-to-serve in professional tennis (with S. Kovalchik). Journal of Quantitative Analysis of Sports, 13(2).

2017   The Do's and Don'ts of sports metrics: the Tennis ATP Leaderboard (with S. Kovalchik). Chance, February issue.

2018   Statistical modeling of sexual assault kit testing initiative case information (with J. Kerka et al.). Journal of Forensic Sciences, 63(4), 1122–1133.

2019   Developing statistical knowledge for teaching graphing of bivariate categorical data (with S. Casey & A. Ross). Journal of Statistics Education.

2019   Comparison of decision tree and logistic regression models for utilization in sexual assault kit processing (with J. Kerka et al.). Journal of Forensic Sciences.

2020   Online statistics teaching and learning (with M. Çetinkaya-Rundel & J. Hu). Teaching and Learning Mathematics Online, Chapman and Hall.

2020   Bayesian computing in the undergraduate statistics curriculum (with J. Hu). Journal of Statistics Education, 28(3), 236–247.

2020   The home run explosion. Science Meets Sport, Cambridge Scholars Publishing.

2023   Contributions of Carl Morris in sports analytics — a memoriam. Journal of Quantitative Analysis in Sports.

2025   Albert, J., Sanchez, J., & Witmer, J. (2025). Interview with Jim Albert: Part I. (Focus on Bayesian Education) Journal of Statistics and Data Science Education, 33(3), 249–254.

2025   Albert, J. and Berry, S. (2025). Interview with Jim Albert: Part II: An Inspiring Story of Teaching Statistics Through Sports Applications, Journal of Statistics and Data Science Education, 33(4), 353–357.

EDITORIAL & PROFESSIONAL SERVICE

2021–   Editor, *Journal of Sports Analytics*
2015–   Editor, *Chance Magazine*
2015–   Associate Editor, *Journal of Quantitative Analysis of Sports*
2011–2014   Executive Editor, *Journal of Quantitative Analysis of Sports*
2009–   Associate Editor, *Journal of Statistics Education*
2003–2005   Executive Editor, *The American Statistician*
1996–2002   Associate Editor, *Journal of the American Statistical Association*

STATISTICAL SOFTWARE & R PACKAGES

LearnBayes — R package to implement Bayesian calculations. Available on CRAN.
ProbBayes — R package companion to *Probability and Bayesian Modeling*. Available on CRAN.
CalledStrike — R package for collecting, manipulating, and visualizing Statcast pitch zone data.
ShinyBaseball — Collection of R Shiny apps for exploring baseball data.
LearnEDA — R package companion to the course on Exploratory Data Analysis.