

## REFERENCES

- H. Akaike. A new look at the statistical model identification. *IEEE Transactions on Automatic Control*, 19(6):716–723, 1974. doi: 10.1109/TAC.1974.1100705.
- Stefan Behnel, Robert Bradshaw, Craig Citro, Lisandro Dalcin, Dag Sverre Seljebotn, and Kurt Smith. Cython: The best of both worlds. *Computing in Science Engineering*, 13(2):31–39, 2011. doi: 10.1109/MCSE.2010.118.
- S. Brooks, A. Gelman, G. Jones, and X.L. Meng. *Handbook of Markov Chain Monte Carlo*. Chapman & Hall/CRC Handbooks of Modern Statistical Methods. CRC Press, 2011. ISBN 9781420079425. URL <https://books.google.co.id/books?id=qfRsAIKZ4rIC>.
- Stephen Brooks. Markov chain monte carlo method and its application. *Journal of the Royal Statistical Society: Series D (The Statistician)*, 47(1):69–100, March 1998. doi: 10.1111/1467-9884.00117. URL <https://doi.org/10.1111/1467-9884.00117>.
- Kenneth P. Burnham and David R. Anderson. Multimodel inference. *Sociological Methods & Research*, 33(2):261–304, November 2004. doi: 10.1177/0049124104268644. URL <https://doi.org/10.1177/0049124104268644>.
- G. Casella and R.L. Berger. *Statistical Inference*. Cengage Learning, 1990. ISBN 9780357753132. URL <https://books.google.co.id/books?id=FAUVEAAAQBAJ>.
- Sarah Depaoli, James P. Clifton, and Patrice R. Cobb. Just another gibbs sampler (JAGS). *Journal of Educational and Behavioral Statistics*, 41(6):628–649, September 2016. doi: 10.3102/1076998616664876. URL <https://doi.org/10.3102/1076998616664876>.

N. I. Fisher, T. Lewis, and B. J. J. Embleton. *Statistical Analysis of Spherical Data*. Cambridge University Press, August 1987. doi: 10.1017/cbo9780511623059. URL <https://doi.org/10.1017/cbo9780511623059>.

Cheng Gao, Qi Li, and Zirui Guo. Automobile insurance pricing with bayesian general linear model. In Minli Dai, editor, *Innovative Computing and Information*, pages 359–365, Berlin, Heidelberg, 2011. Springer Berlin Heidelberg. ISBN 978-3-642-23993-9.

Constantine Gatsonis et al. *Case studies in Bayesian statistics*. Springer-Verlag, 1993.

A. Gelman, J.B. Carlin, H.S. Stern, D.B. Dunson, A. Vehtari, and D.B. Rubin. *Bayesian Data Analysis, Third Edition*. Chapman & Hall/CRC Texts in Statistical Science. Taylor & Francis, 2013. ISBN 9781439840955. URL <https://books.google.co.id/books?id=ZXL6AQAAQBAJ>.

Andrew Gelman and Jennifer Hill. *Data Analysis Using Regression and Multilevel/Hierarchical Models*. Analytical Methods for Social Research. Cambridge University Press, 2006. doi: 10.1017/CBO9780511790942.

Andrew Gelman and Donald B. Rubin. Inference from iterative simulation using multiple sequences. *Statistical Science*, 7(4), November 1992. doi: 10.1214/ss/1177011136. URL <https://doi.org/10.1214/ss/1177011136>.

Andrew Gelman, Daniel Lee, and Jiqiang Guo. Stan. *Journal of Educational and Behavioral Statistics*, 40(5):530–543, October 2015. doi: 10.3102/1076998615606113. URL <https://doi.org/10.3102/1076998615606113>.

Charles J. Geyer. Practical markov chain monte carlo. *Statistical Science*, 7(4):473–483, 1992. ISSN 08834237. URL <http://www.jstor.org/stable/2246094>.

Charles J. Geyer. *Introduction to Markov Chain Monte Carlo*, pages 3–48. CRC Press, May 2011. ISBN 9781420079418. doi: 10.1201/b10905-2.

Mark Goldburd, Shailaja Khare, and Yuval Tevet. *Generalized linear models for insurance rating*. CRC Press, 2016.

Matthew D. Hoffman and Andrew Gelman. The no-u-turn sampler: Adaptively setting path lengths in hamiltonian monte carlo, 2011.

Stuart A Klugman, Harry H Panjer, and Gordon E Willmot. *Loss models*. Wiley Series in Probability and Statistics. John Wiley & Sons, Nashville, TN, 5 edition, May 2019.

Marko Koprivica. Comparison of software packages for performing bayesian inference. *Neural Network World*, 30(5):283–294, 2020. doi: 10.14311/nnw.2020.30.019. URL <https://doi.org/10.14311/nnw.2020.30.019>.

John K. Kruschke. Bayesian assessment of null values via parameter estimation and model comparison. *Perspectives on Psychological Science*, 6(3):299–312, 2011. ISSN 17456916, 17456924. URL <http://www.jstor.org/stable/41613499>.

John K Kruschke. *Doing Bayesian Data Analysis: A Tutorial with R, JAGS, and Stan*. Academic Press, 2015.

Scott M. Lynch. Bayesian theory, history, applications, and contemporary directions. In James D. Wright, editor, *International Encyclopedia of the Social Behavioral Sciences (Second Edition)*, pages 378-382. Elsevier, Oxford, second edition edition, 2015. ISBN 978-0-08-097087-5. doi: <https://doi.org/10.1016/B978-0-08-097086-8.43013-8>. URL <https://www.sciencedirect.com/science/article/pii/B9780080970868430138>.

P. McCullagh. *Generalized Linear Models*. Routledge, New York, NY, 2 edition, 1989. doi: 10.1201/9780203753736.

P. McCullagh and J. A. Nelder. *Generalized Linear Models*. Springer US, 1989. doi: 10.1007/978-1-4899-3242-6. URL <https://doi.org/10.1007/978-1-4899-3242-6>.

In Jae Myung. Tutorial on maximum likelihood estimation. *Journal of Mathematical Psychology*, 47(1):90–100, February 2003. doi: 10.1016/s0022-2496(02)00028-7. URL [https://doi.org/10.1016/s0022-2496\(02\)00028-7](https://doi.org/10.1016/s0022-2496(02)00028-7).

Ioannis Ntzoufras. *Introduction to Bayesian Inference*, chapter 1, pages 1–29. John Wiley Sons, Ltd, 2009a. ISBN 9780470434567. doi: <https://doi.org/10.1002/9780470434567.ch1>. URL <https://onlinelibrary.wiley.com/doi/abs/10.1002/9780470434567.ch1>.

Ioannis Ntzoufras. *Frontmatter*, pages i–xxiii. John Wiley Sons, Ltd, 2009b. ISBN 9780470434567. doi: <https://doi.org/10.1002/9780470434567.fmatter>. URL <https://onlinelibrary.wiley.com/doi/abs/10.1002/9780470434567.fmatter>.

Esbjörn Ohlsson and Björn Johansson. *Non-Life Insurance Pricing*, pages 1–14. Springer Berlin Heidelberg, Berlin, Heidelberg, 2010. ISBN 978-3-642-10791-7. doi: 10.1007/978-3-642-10791-7-1. URL <https://doi.org/10.1007/978-3-642-10791-7-1>.

A. Racine, A. P. Grieve, H. Fluhler, and A. F. M. Smith. Bayesian methods in practice: Experiences in the pharmaceutical industry. *Journal of the Royal Statistical Society. Series C (Applied Statistics)*, 35(2):93–150, 1986. ISSN 00359254, 14679876. URL <http://www.jstor.org/stable/2347264>.

Prasanna Sahoo. *Probability and Mathematical Statistics*. University of Louisville, 2008. URL <https://fsalamri.files.wordpress.com/2015/02/applied-probability-sahoo.pdf>.

John Salvatier, Thomas V. Wiecki, and Christopher Fonnesbeck. Probabilistic programming in python using pymc3. *PeerJ Computer Science*, page 2:e55, 2016. doi: <https://doi.org/10.7717/peerj-cs.55>.

Stan Development Team. The Stan Core Library, 2018. URL <http://mc-stan.org/11>. Version 2.18.0.

Aki Vehtari, Andrew Gelman, Daniel Simpson, Bob Carpenter, and Paul-Christian Bürkner. Rank-Normalization, Folding, and Localization: An Improved  $\hat{R}$  for Assessing Convergence of MCMC (with Discussion). *Bayesian Analysis*, 16(2): 667 – 718, 2021. doi: 10.1214/20-BA1221. URL <https://doi.org/10.1214/20-BA1221>.

Ernst Wit, Edwin van den Heuvel, and Jan-Willem Romeijn. ‘all models are wrong...’: an introduction to model uncertainty. *Statistica Neerlandica*, 66(3): 217–236, July 2012. doi: 10.1111/j.1467-9574.2012.00530.x. URL <https://doi.org/10.1111/j.1467-9574.2012.00530.x>.

Jhang Zhang and Tatjana Miljkovic. Ratemaking for a new territory: Enhancing glm pricing model with a bayesian analysis. *Casualty Actuarial Society E-Forum*, Spring 2018, 2:1–32, 2018.