

Dempster Select References

- [1] Dempster, A. P. (1958). A high dimensional two sample significance test. *The Annals of Mathematical Statistics*, 29(4), 995–1010.
- [2] Dempster, A. P. (1960). A significance test for the separation of two highly multivariate small samples. *Biometrics*, 16(1), 41–50.
- [3] Dempster, A. P. (1960). Random allocation designs I: On general classes of estimation methods. *The Annals of Mathematical Statistics*, 31(4), 885–905.
- [4] Dempster, A. P. (1961). Random allocation designs II: Approximate theory for simple random allocation. *The Annals of Mathematical Statistics*, 32(2), 387–405.
- [5] Dempster, A. P. (1969). *Elements of Continuous Multivariate Analysis*. Reading, MA: Addison-Wesley.
- [6] Dempster, A. P. (1963). On a paradox concerning inference about a covariance matrix. *The Annals of Mathematical Statistics*, 34(4), 1414–1418.
- [7] Fisher, R. A. (1956). *Statistical Methods and Scientific Inference*. New York: Hafner.
- [8] Dempster, A. P. (1966). New methods for reasoning towards posterior distributions based on sample data. *The Annals of Mathematical Statistics*, 37(2), 355–374.
- [9] Dempster, A. P. (1967). Upper and lower probabilities induced by a multivalued mapping. *The Annals of Mathematical Statistics*, 38(2), 325–339.
- [10] Dempster, A. P. (1967). Upper and lower probability inferences based on a sample from a finite univariate population. *Biometrika*, 54(3–4), 515–528.
- [11] Dempster, A. P. (1968). A generalization of Bayesian inference. *Journal of the Royal Statistical Society, Series B*, 30(2), 205–247.
- [12] Dempster, A. P. (1968). Upper and lower probabilities generated by a random closed interval. *The Annals of Mathematical Statistics*, 39(3), 957–966.
- [13] Dempster, A. P. (1975). A subjectivist look at robustness. *Bulletin of the International Statistical Institute*, 46, 349–374.
- [14] Shafer, G. (1976). *A Mathematical Theory of Evidence*. Princeton: Princeton University Press.

- [15] Dempster, A. P., Laird, N. M., and Rubin, D. B. (1977). Maximum likelihood from incomplete data via the EM algorithm (with discussion). *Journal of the Royal Statistical Society, Series B*, 39(1), 1–38.
- [16] Van Noorden, R., Maher, B., and Nuzzo, R. (2014). The top 100 papers. *Nature*, 514(7524), 550–553.
- [17] Almond, R. G. (1995). *Graphical Belief Modeling*. London: Chapman & Hall.
- [18] Dempster, A. P. (2008). The Dempster–Shafer calculus for statisticians. *International Journal of Approximate Reasoning*, 48(2), 365–377.
- [19] Dempster, A. P. (2014). Statistical inference from a Dempster–Shafer perspective. In *Past, Present, and Future of Statistical Science*. Boca Raton: Chapman & Hall/CRC.
- [20] Edlefsen, P. T., Liu, C., and Dempster, A. P. (2009). Estimating limits from Poisson counting data using Dempster–Shafer analysis. *The Annals of Applied Statistics*, 3(2), 764–790.
- [21] Dempster, A. P. (1972). A class of random convex polytopes. *The Annals of Mathematical Statistics*, 43(1), 260–272.
- [22] Jacob, P. E., Gong, R., Edlefsen, P. T., and Dempster, A. P. (2021). A Gibbs sampler for a class of random convex polytopes. *Journal of the American Statistical Association*, 116(535), 1181–1192.

Prepared by Ruobin Gong, drawing on the memorial published by the Harvard Department of Statistics.¹ The author thanks Nan Laird, Glenn Shafer, Augustine Kong, Chuanhai Liu, Stephen Blyth, Paul Edlefsen, Emily Palmer, and the Dempster family for their comments and recollections.

¹ Available at <https://statistics.fas.harvard.edu/news/2026/02/arthur-p-dempster-obituary>