

THE PUBLICATIONS AND WRITINGS OF JOHN W. TUKEY

Papers (in Refereed Journals)

- [1] (1938a) A note on linear functionals. *Bull. Amer. Math. Soc.* **44** 523–528. (With R. P. Boas, Jr.)
- [2] (1938b) On the distribution of the fractional part of a statistical variable. *Mat. Sb.* **4** 561–562.
- [3] (1939a) The intrinsic metric of a polytope. *Proc. Nat. Acad. Sci. U.S.A.* **25** 51.
- [4] (1940b) A correction to “A note on linear functionals.” *Bull. Amer. Math. Soc.* **46** 566. (With R. P. Boas, Jr.)
- [5] (1942a) Some notes on the separation of convex sets. *Portugaliae Math.* **3** 95–102.
- [6] (1942b) Generalized “sandwich” theorems. *Duke Math. J.* **9** 356–359. (With A. H. Stone.)
- [7] (1944a) A formula for sample sizes for population tolerance limits. *Ann. Math. Statist.* **15** 217. (With H. Scheffé.)
- [8] (1945a) Non-parametric estimation. I. Validation of order statistics. *Ann. Math. Statist.* **16** 187–192. (With H. Scheffé.)
- [9] (1946a) Some distributions of sample means. *Ann. Math. Statist.* **17** 1–12. (With G. W. Brown.)
- [10] (1946b) An inequality for deviations from medians. *Ann. Math. Statist.* **17** 75–78.
- [11] (1946c) Approximation of the distribution of the product of beta variables by a single beta variable. *Ann. Math. Statist.* **17** 318–324. (With S. S. Wilks.)
- [12] (1946d) Industrial statistics. *J. Amer. Statist. Assoc.* **41** 406–411. (With C. P. Winsor.)
- [13] (1947a) Linearization of solutions in supersonic flow. *Quart. Appl. Math.* **5** 361–365.
- [14] (1947b) Low moments for small samples: A comparative study of order statistics. *Ann. Math. Statist.* **18** 413–426. (With C. Hastings, Jr., F. Mosteller and C. P. Winsor.)
- [15] (1947c) A corner test for association. *Ann. Math. Statist.* **18** 495–513. (With P. S. Olmstead.)
- [16] (1947d) Non-parametric estimation. II. Statistically equivalent blocks and tolerance regions—the continuous case. *Ann. Math. Statist.* **18** 529–539.
- [17] (1947) Question 4: Infinite observations. *Amer. Statist.* **1**(3) 17–18.
- [18] (1948a) Nonparametric estimation. III. Statistically equivalent blocks and multivariate tolerance regions—the discontinuous case. *Ann. Math. Statist.* **19** 30–39.
- [19] (1948b) Approximate weights. *Ann. Math. Statist.* **19** 91–92.
- [20] (1948c) Some elementary problems of importance to small sample practice. *Human Biology* **20** 205–214.
- [21] (1949a) Dyadic ANOVA. An analysis of variance for vectors. *Human Biology* **21** 65–110.
- [22] (1949b) Memorandum on statistics in the Federal Government, Part I. *Amer. Statist.* **3**(1) 6–17.
- [23] (1949b) Memorandum on statistics in the Federal Government, Part II. *Amer. Statist.* **3**(2) 12–16.
- [24] (1949c) Interstellar polarization, galactic magnetic fields, and ferromagnetism. *Science* **109** 461–462. (With L. Spitzer, Jr.)
- [25] (1949d) The education of a scientific generalist. *Science* **109** 553–558. (With H. W. Bode, F. Mosteller and C. P. Winsor.)
- [26] (1949e) Sufficiency, truncation and selection. *Ann. Math. Statist.* **20** 309–311.
- [27] (1949f) Comparing individual means in the analysis of variance. *Biometrics* **5** 99–114.

- [28] (1949g) The uses and usefulness of binomial probability paper. *J. Amer. Statist. Assoc.* **44** 174–212. (With F. Mosteller.)
- [29] (1949h) One degree of freedom for non-additivity. *Biometrics* **5** 232–242.
- [30] (1949i) Practical applications of new theory. A review. Part I. Location and scale: Tables. *Industrial Quality Control* **6** (September) 5–8. (With F. Mosteller.)
- [31] (1949j) Practical applications of new theory. A review. Part II. Counted data—graphical methods. *Industrial Quality Control* **6** (October) 5–7. (With F. Mosteller.)
- [32] (1949k) Moments of random group size distributions. *Ann. Math. Statist.* **20** 523–539.
- [33] (1949n) Answer to question 21. *Amer. Statist.* **3**(4) 12.
- [34] (1950b) Practical applications of new theory. A review. Part III. Analytical techniques. *Industrial Quality Control* **6** (January) 5–7. (With F. Mosteller.)
- [35] (1950c) Practical applications of new theory. A review. Part IV. Gathering information. *Industrial Quality Control* **6** (March) 5. (With F. Mosteller.)
- [36] (1950d) Significance levels for a k -sample slippage test. *Ann. Math. Statist.* **21** 120–123. (With F. Mosteller.)
- [37] (1950e) Lack of sensitization following repeated skin tests with standard tuberculin (PPD-S). *Amer. Rev. Tuberculosis* **62** 77–86. (With E. H. Dufour and F. Seibert.)
- [38] (1950f) Some sampling simplified. *J. Amer. Statist. Assoc.* **45** 501–519.
- [39] (1950g) Timing of the distribution of events between observations. *Human Biology* **22** 249–270. (With T. E. Harris and P. Meier.)
- [40] (1950h) Transformations related to the angular and the square root. *Ann. Math. Statist.* **21** 607–611. (With M. F. Freeman.)
- [41] (1951a) Components in regression. *Biometrics* **7** 33–69.
- [42] (1951c) A theory of interstellar polarization. *Astrophysical J.* **114** 187–205. (With L. Spitzer, Jr.)
- [43] (1953a) Some selected quick and easy methods of statistical analysis. *Trans. N. Y. Acad. Sci.* **16** 88–97.
- [44] (1953b) Statistical problems of the Kinsey report. *J. Amer. Statist. Assoc.* **48** 673–716. (With W. G. Cochran and F. Mosteller.)
- [45] (1954a) Principles of sampling. *J. Amer. Statist. Assoc.* **49** 13–35. (With W. G. Cochran and F. Mosteller.)
- [46] (1954d) Unsolved problems of experimental statistics. *J. Amer. Statist. Assoc.* **49** 706–731.
- [47] (1954e) Answer to query 112. *Biometrics* **10** 562–568, **11** 113. (With P. G. Moore.)
- [48] (1955a) Systematization of journal practices. *Science* **122** 246.
- [49] (1955b) Mathematical consultants, computational mathematics and mathematical engineering. *Amer. Math. Monthly* **62** 565–571.
- [50] (1955c) Interpolations and approximations related to the normal range. *Biometrika* **42** 480–485.
- [51] (1955f) Answer to query 113. *Biometrics* **11** 111–113.
- [52] (1956a) Keeping moment-like sampling computations simple. *Ann. Math. Statist.* **27** 37–54.
- [53] (1956d) Variances of variance components. I. Balanced designs. *Ann. Math. Statist.* **27** 722–736.
- [54] (1956e) Multivariate analysis of mineralogic, lithologic and chemical composition of rock bodies. *J. Sedimentary Petrology* **26** 322–337. (With W. C. Krumbein.)
- [55] (1956f) Average values of mean squares in factorials. *Ann. Math. Statist.* **27** 907–949. (With J. Cornfield.)
- [56] (1956g) A rejection criterion based upon the range. *Biometrika* **43** 418–422. (With C. I. Bliss and W. G. Cochran.)
- [57] (1957a) Variances of variance components. II. The unbalanced single classification. *Ann. Math. Statist.* **28** 43–56.

- [58] (1957b) Variances of variance components. III. Third moments in a balanced single classification. *Ann. Math. Statist.* **28** 378–384.
- [59] (1957c) Some examples with fiducial relevance. *Ann. Math. Statist.* **28** 687–695.
- [60] (1957d) On the comparative anatomy of transformations. *Ann. Math. Statist.* **28** 602–632.
- [61] (1957e) Antithesis or regression? *Proc. Cambridge Philos. Soc.* **53** 923–924.
- [62] (1957f) Sums of random partitions of ranks. *Ann. Math. Statist.* **28** 987–992.
- [63] (1957g) Approximations to the upper 5% points of Fisher's B distribution and non-central χ^2 . *Biometrika* **44** 528–530.
- [64] (1957h) The sampling theory of power spectrum estimates. *J. Cycle Res.* **6** 31–52. (Also [215].)
- [65] (1958a) Reliability for the law of comparative judgment. *Psychometrika* **23** 95–110. (With H. O. Gulliksen.)
- [66] (1958b) A smooth invertibility theorem. *Ann. Math. Statist.* **29** 581–584.
- [67] (1958c) A problem of Berkson, and minimum variance orderly estimators. *Ann. Math. Statist.* **29** 588–592.
- [68] (1958d) The measurement of power spectra from the point of view of communications engineering, Part I. *Bell System Tech. J.* **37** 185–282. (With R. B. Blackman.)
- [69] (1958e) The measurement of power spectra from the point of view of communications engineering, Part II. *Bell System Tech. J.* **37** 485–569. (With R. B. Blackman.)
- [70] (1958f) The teaching of concrete mathematics. *Amer. Math. Monthly* **65** 1–9.
- [71] (1958g) Bias and confidence in not-quite large samples (abstract). *Ann. Math. Statist.* **29** 614.
- [72] (1959a) A quick, compact, two-sample test to Duckworth's specifications. *Technometrics* **1** 31–48.
- [73] (1959d) Discussion of two papers on random balance designs. *Technometrics* **1** 166–174.
- [74] (1959g) Little pieces of mixed factorials (abstract 627). *Biometrics* **15** 641–642.
- [75] (1960a) Where do we go from here? *J. Amer. Statist. Assoc.* **55** 80–93.
- [76] (1960b) Complex analyses of variance: General problems. *Psychometrika* **25** 127–152. (With B. F. Green, Jr.)
- [77] (1960c) A nonparametric sum of ranks procedure for relative spread in unpaired samples. *J. Amer. Statist. Assoc.* **55** 429–445. (With S. Siegel.)
- [78] (1960e) Conclusions vs. decisions. *Technometrics* **2** 423–433.
- [79] (1961a) Discussion, emphasizing the connection between analysis of variance and spectrum analysis. *Technometrics* **3** 191–219.
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- [81] (1962a) The future of data analysis. *Ann. Math. Statist.* **33** 1–67, 812.
- [82] (1962b) Keeping research in contact with literature: Citation indices and beyond. *Trans. I.R.E. Professional Group on Engineering Writing and Speech* **5**(2) 78–82.
- [83] (1962c) Keeping research in contact with literature: Citation indices and beyond. *J. Chem. Documentation* **2**(1) 34–37.
- [84] (1962d) Strengthening the behavioral sciences. *Science* **136** 233–241. (With many others.)
- [85] (1963b) The examination and analysis of residuals. *Technometrics* **5** 141–160, 536–537, **6** 127. (With F. J. Anscombe.)
- [86] (1963c) Efficient utilization of non-numerical information in quantitative analysis: General theory and the case of simple order. *Ann. Math. Statist.* **34** 1347–1369. (With R. P. Abelson.)
- [87] (1963d) Less vulnerable confidence and significance procedures for location based on a single sample: Trimming/Winsorization. *Sankhyā Ser. A* **25** 331–352. (With D. H. McLaughlin.)

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- [89] (1964a) Simultaneous conjoint measurement: A new type fundamental measurement. *J. Math. Psych.* **1** 1–27. (With R. D. Luce.)
- [90] (1965a) An algorithm for the machine calculation of complex Fourier series. *Math. Comp.* **19** 297–301. (With J. W. Cooley.)
- [91] (1965b) Data analysis and the frontiers of geophysics. *Science* **148** 1283–1289.
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- [93] (1965e,k) Short-cut multiple comparisons for balanced single and double classifications. Part I. Results (with discussion). *Technometrics* **7** 95–169. (With T. E. Kurtz, R. F. Link and D. L. Wallace.)
- [94] (1965f) The technical tools of statistics. *Amer. Statist.* **19**(2) 23–28.
- [95] (1965h) Approximate means and standard deviations based on distances between percentage points of frequency curves. *Biometrika* **52** 533–546. (With E. S. Pearson.)
- [96] (1965i) Short-cut multiple comparisons for balanced single and double classifications. Part 2. Derivations and approximations. *Biometrika* **52** 485–498. (With T. E. Kurtz, R. F. Link and D. L. Wallace.)
- [97] (1965j) Memorial to Samuel S. Wilks. *J. Amer. Statist. Assoc.* **60** 939–966. (With F. F. Stephan, F. Mosteller, A. M. Mood, M. H. Hansen, L. E. Simon and W. J. Dixon.)
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- [100] (1966d) Summary of the National Halothane Study. *J. Amer. Medical Assoc.* **197** 775–788. (With many others.)
- [101] (1966e) Use of numerical spectrum analysis in geophysics. *Bull. Internat. Statist. Inst.* **41** 267–307.
- [102] (1966f) Earth—man’s polluted spaceship. (The Call of the Vanishing Wild—6.) *Christian Science Monitor* October 24 9. (With J. L. Buckley.)
- [103] (1967a) What can mathematicians do for the Federal Government? *Amer. Math. Monthly* **74**(1, Part 2) 101–109.
- [104] (1967b) Modern techniques of power spectrum estimation. *IEEE Trans. Audio Electroacoustics* **15** 56–66. (With C. Bingham and M. D. Godfrey.)
- [105] (1968a) Approximate behavior of the distribution of Winsorized t (trimming/Winsorization 2). *Technometrics* **10** 83–98. (With W. J. Dixon.)
- [106] (1968c) The true purpose of transformation (abstract 1545). *Biometrics* **24** 1041.
- [107] (1969f) Analyzing data: Sanctification or detective work. *Amer. Psychologist* **24**(2) 83–91.
- [108] (1969g) A ruly code for serials. *Proc. Amer. Soc. Inform. Sci.* **6** 113–124. (With J. L. Dolby and H. L. Resnikoff.)
- [109] (1970e) Some graphic and semigraphic displays (abstract). *Technometrics* **12** 205. (See also [243].)
- [110] (1972c) Testing unit vectors for correlation. *J. Geophys. Res.* **76** 8480–8483. (With R. J. Epp and G. S. Watson.)
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- [112] (1972f) Recommendations with respect to the behavioral and social aspects of human genetics. *Proc. Nat. Acad. Sci. U.S.A.* **69** 1–3. (With K. David, T. Dobzhansky, R. W. Gerard, H. B. Glass, E. R. Hilgard, J. V. Neel and H. A. Simon.)

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- [114] (1973a) Algorithm AS 61—six-line plots. *Appl. Statist.* **22** 265–269. (With D. F. Andrews.)
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- [116] (1974a) A projection pursuit algorithm for exploratory data analysis. *IEEE Trans. Comput.* **23** 881–890. (With J. H. Friedman.)
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- [118] (1974g) Named and faceless values: An initial exploration in memory of Prasanta C. Mahalanobis. *Sankhyā Ser. A* **36** 125–176.
- [119] (1975b) An improved Mantel–Bryan procedure for “safety” testing of carcinogens. *Cancer Research* **35** 865–872. (With N. Mantel, N. R. Bohidar, C. C. Brown and J. L. Ciminera.)
- [120] (1975c) Higher-order diagnosis of two-way tables, illustrated on two sets of demographic empirical distributions. *Biometrics* **31** 487–510. (With D. R. McNeil.)
- [121] (1976b) Methodology and the statistician’s responsibility for both accuracy and relevance. *Statist. Reporter* **13** 253–262.
- [122] (1977d/
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- [123] (1978a) Variations of box plots. *Amer. Statist.* **32** 12–16. (With R. McGill and W. A. Larsen.)
- [124] (1978c) Exploratory analysis of aggregate voting behavior: Presidential elections in New Hampshire, 1896–1972. *Social Science History* **2** 292–331. (With J. L. McCarthy.)
- [125] (1978d) Sulfipyrazone in the prevention of cardiac death after myocardial infarction. *New England Journal of Medicine* **298** 289–295. (With 95 others: The Anturane Reinfarction Trial Research Group.)
- [126] (1978h) The Twin Rivers program on energy conservation in housing: Highlights and conclusions. *Energy and Buildings* **1** 207–242. (With many others.)
- [127] (1978i) Inversion of articulatory-to-acoustic transformation in the vocal tract by a computer-sorting technique. *J. Acoust. Soc. Amer.* **63** 1535–1555. (With B. S. Atal, J.-J. Chang and M. V. Mathews.)
- [128] (1979a) Re-expression and “plotting” (abstract). *IMS Bull.* **8** 274.
- [129] (1979e) Methodology, and the statistician’s responsibility for both accuracy and relevance. *J. Amer. Statist. Assoc.* **74** 786–793. (An expanded version of [121].)
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- [131] (1980a) We need both exploratory and confirmatory. *Amer. Statist.* **34** 23–25.
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- [133] (1982h) Tumorigenicity assays, including use of the jackknife. *Biometrical J.* **24** 579–596. (With N. Mantel, J. L. Ciminera and J. F. Heyse.)
- [134] (1982i) Some resistant procedures for analyzing 2^n factorial experiments. *Utilitas Math.* **21B** 57–98. (With A. Scheult.)
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- [136] (1985p) Testing the statistical certainty of a response to increasing doses of a drug. *Biometrics* **41** 295–301. (With J. L. Ciminera and J. F. Heyse.)
- [137] (1986a) Sunset salvo. *Amer. Statist.* **40** 72–76.
- [138] (1986m) Performance of some resistant rules for outlier labeling. *J. Amer. Statist. Assoc.* **81** 991–999. (With D. C. Hoaglin and B. Iglewicz.)
- [139] (1987a) Configural polysampling [1985 John von Neumann Lecture]. *SIAM Rev.* **29** 1–20.
- [140] (1987j) Lopressor Intervention Trial Research Group. The Lopressor Intervention Trial: Multicentre study of metoprolol in survivors of acute myocardial infarction. *European Heart J.* **8** 1056–1064.
- [141] (1988f) Frederick Mosteller and John W. Tukey: A Conversation. *Statist. Sci.* **3** 136–144.
- [142] (1988g) Comments on “Adverbs and adjectives: A model-based analysis,” by N. Cliff. *Chance* **1**(3) 42–48. (With J. D. Emerson, D. C. Hoaglin and G. Y. Wong.)
- [143] (1988h) A bidec *t* table. *J. Amer. Statist. Assoc.* **83** 532–539. (With K. Kafadar.)
- [144] (1989r) Control-charting automated laboratory instruments when many successive differences may be zero. *J. Quality Technology* **21** 7–15. (With J. L. Ciminera.)
- [145] (1989s) Use of augmented box plots for reviewing measurement results collected over time. *J. Quality Technology* **21** 187–198. (With J. L. Ciminera.)
- [146] (1989x) Adjusting the 1980 Census of Housing and Population. *J. Amer. Statist. Assoc.* **84** 927–944. (With E. Ericksen and J. B. Kadane.)
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- [166] (2000) Fitting quantiles: Doubling, *HR*, *HQ*, and *HHH* distributions. *J. Comput. Graph. Statist.* **9** 180–195. (With S. Morgenthaler.)
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Book Reviews

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