

THE PUBLICATIONS AND WRITINGS OF LUCIEN LE CAM

Papers (including reviews and discussions)

- (1947) Un instrument d'étude des fonctions aléatoires, la fonctionnelle caractéristique. *C.R. Acad. Sci. Paris* **224** 710–711.
- (1948) Sur certaines classes de fonctions aléatoires. *C.R. Acad. Sci. Paris* **227** 1206–1208 (with J. Bass).
- (1949) Les lois des débits des rivières françaises. *Houille Blanche, Numéro Special B* 733–740 (with G. Morlat).
- (1953) On some asymptotic properties of maximum likelihood estimates and related Bayes' estimates. *Univ. California Publ. Statist.* **1** 277–329.
- (1954) Note on a theorem of Lionel Weiss. *Ann. Math. Statist.* **25** 791–794.
- (1955) An extension of Wald's theory of statistical decision functions. *Ann. Math. Statist.* **26** 69–81.
- (1956a) On the asymptotic theory of estimation and testing hypotheses. *Proc. Third Berkeley Symp. Math. Statist. Probab. (1954–1955)* **1** 129–156. Univ. California Press, Berkeley.
- (1956b) A remark on the roots of the maximum likelihood equation. *Ann. Math. Statist.* **27** 1174–1177 (with C. Kraft).
- (1957) Convergence in distribution of stochastic processes. *Univ. California Publ. Statist.* **2** 207–236.
- (1958a) Remarques sur les variables aléatoires dans les espaces vectoriels non séparables. *Le calcul des probabilités et ses applications* (Paris, 15–20 juillet 1958. Colloques internationaux du CNRS, LXXXVII). *Publications de l'Institut de Statistique de l'Université de Paris VII* 39–53. CNRS, Paris.
- (1958b) Un théorème sur la division d'un intervalle par des points pris au hasard. *Publications de l'Institut de Statistique de l'Université de Paris VII* 7–16.
- (1958c) Les propriétés asymptotiques des solutions de Bayes. *Publications de l'Institut de Statistique de l'Université de Paris VII* 17–35.
- (1960a) Locally asymptotically normal families of distributions. *Univ. California Publ. Statist.* **3** 37–98.
- (1960b) A necessary and sufficient condition for the existence of consistent estimates. *Ann. Math. Statist.* **31** 140–150 (with L. Schwartz).
- (1960c) The Poisson approximation to the Poisson binomial distribution. *Ann. Math. Statist.* **31** 737–740 (with J. L. Hodges, Jr).
- (1960d) An approximation theorem for the Poisson binomial distribution. *Pacific J. Math.* **10** 1181–1197.
- (1961) A stochastic description of precipitation. *Proc. Fourth Berkeley Symp. Math. Statist. Probab.* **3** 165–186. Univ. California Press, Berkeley.
- (1963) A note on the distribution of sums of independent random variables. *Proc. Nat. Acad. Sci. U.S.A.* **50** 601–603.
- (1964a) Sufficiency and approximate sufficiency (Special invited address, Institute of Mathematical Statistics, Dec. 1959). *Ann. Math. Statist.* **35** 1419–1455.
- (1964b) Consistent estimates and zero-one sets. *Ann. Math. Statist.* **35** 157–161 (with L. Breiman and L. Schwartz).
- (1965a) On the distribution of sums of independent random variables. In *Bernoulli, Bayes, Laplace* (J. Neyman and L. Le Cam, eds.) 179–202. Springer, New York.
- (1965b) A remark on the central limit theorem. *Proc. Nat. Acad. Sci. U.S.A.* **54** 354–359.

- (1966) Likelihood functions for large numbers of independent observations. In *Research Papers in Statistics* (F. N. David, ed.) 167–187. Wiley, New York.
- (1967) Generalizations of theorems of Chernoff and Savage on asymptotic normality of test statistics. *Proc. Fifth Berkeley Symp. Math. Statist. Probab.* **1** 609–638. Univ. California Press, Berkeley (with M. Raghavachari and Z. Govindarajulu).
- (1968) Panel discussion on statistical inference. In *The Future of Statistics* (D. Watts, ed.) 139–160. Academic Press, New York.
- (1970a) Remarques sur le théorème limite central dans les espaces localement convexes. In *Les probabilités sur les structures algébriques. Actes Colloques internationaux du Centre National de la Recherche Scientifique* **186** 233–249. Éditions CNRS, Paris.
- (1970b) On the assumptions used to prove asymptotic normality of maximum likelihood estimates. *Ann. Math. Statist.* **41** 802–828.
- (1970c) On the weak convergence of probability measures. *Ann. Math. Statist.* **41** 621–625.
- (1971) On seminorms and probabilities, and abstract Wiener spaces. *Ann. of Math.* **93** 390–408. [Correction (1976) *Ann. of Math.* **104** 391] (with R. M. Dudley and J. Feldman).
- (1972a) Limits of experiments. *Proc. Sixth Berkeley Symp. Math. Statist. Probab.* **1** 245–261. Univ. California Press, Berkeley.
- (1972b) Paul Lévy 1886–1971. *Proc. Sixth Berkeley Symp. Math. Statist. Probab.* **3** xiv–xx. Univ. California Press, Berkeley.
- (1973a) Convergence of estimates under dimensionality restrictions. *Ann. Statist.* **1** 38–53.
- (1973b) Sur les contraintes imposées par les passages à la limite usuels en statistique. *Bull. Internat. Statist. Institute* **45**. *Proc. 39th Session of International Statistical Institute (Vienna, 1973)* **4** 169–180.
- (1973c) Sur la lois des grands nombres pour des variables aléatoires de Bernoulli attachées à un arbre dyadique. *C.R. Acad. Sci. Paris Sér. A, B* **277** A963–A964 (with A. Joffe and J. Neveu).
- (1974a) On the information contained in additional observations. *Ann. Statist.* **2** 630–649.
- (1974b) J. Neyman: On the occasion of his 80th birthday. *Ann. Statist.* **2** vii–xiii (with E. L. Lehmann).
- (1975a) On local and global properties in the theory of asymptotic normality of experiments. In *Stochastic Process. and Related Topics* (M. L. Puri, ed.) **1** 13–53. Academic Press, New York.
- (1975b) Distances between experiments. In *A Survey of Statistical Design and Linear Models* (J. N. Srivastava, ed.) 383–396. North-Holland, Amsterdam.
- (1975c) Construction of asymptotically sufficient estimates in some non-Gaussian situations. In *Proc. Prague Symp. on Asymptotic Methods in Statist.* (J. Hájek, ed.) **1** 179–200. Academia, Prague.
- (1975d) Comment on “Defining the curvature of a statistical problem with applications to second-order efficiency,” by B. Efron. *Ann. Statist.* **3** 1223–1224.
- (1976a) Circadian rhythm of stimulated lymphocyte blastogenesis. *J. Allergy Clinical Immunology* **58** 181–189 (with M. Kaplan et al.).
- (1976b) An unusual metastatic lesion in a patient with osteosarcoma receiving tumor specific transfer factor. In *Transfer Factor* (M. S. Ascher, A. A. Gottlieb and C. H. Kirkpatrick, eds.) 537–542. Academic Press, New York (with A. S. Levin, V. S. Byers and J. O. Johnson).
- (1976c) Tumor specific transfer factor therapy in osteogenic sarcoma. *Ann. New York Acad. Sci.* **277** 621–627 (with V. S. Byers, A. S. Levin, J. O. Johnston and A. J. Hackett).
- (1977a) A reduction theorem for certain sequential experiments. In *Statistical Decision Theory and Related Topics II* (S. Gupta and D. Moore, eds.) 223–244. Academic Press, New York.

- (1977b) On the asymptotic normality of estimates. In *Proc. Symp. to Honor Jerzy Neyman* (Warsaw, 1974) (R. Bartoszyński, E. Fidelis and W. Klonecki, eds.) 203–217. Państw. Wydawn. Nauk., Warsaw.
- (1977c) Identification of human populations with a high incidence of immunity against breast carcinoma. *Cancer Immunology and Immunotherapy* **2** 163–172 (with V. S. Byers, A. S. Levin, W. H. Stone and A. J. Hackett).
- (1977d) A note on metastatistics or “An essay towards stating a problem in the doctrine of chances.” *Foundations of probability and statistics I. Synthese* **36** 133–160.
- (1978) On the asymptotic behavior of mixtures of Poisson distributions. *Z. Wahrsch. Verw. Gebiete* **44** 1–45 (with R. Traxler).
- (1979a) On a theorem of J. Hájek. In *Contributions to Statistics: Jaroslav Hájek Memorial Volume* (J. Jurečková, ed.) 119–135. Reidel, Dordrecht.
- (1979b) A reduction theorem for certain sequential experiments II. *Ann. Statist.* **7** 847–859.
- (1979c) Immunotherapy of osteogenic sarcoma with transfer factor, long-term follow-up. *Cancer Immunology and Immunotherapy* **6** 243–253 (with V. S. Byers, A. S. Levin, J. O. Johnson and A. J. Hackett).
- (1979d) Jerzy Neyman. Biographical supplement to the *International Encyclopedia of the Social Sciences* **8** (D. L. Sills, ed.). Free Press, New York.
- (1980) Comment on “Minimum chi-square—not maximum likelihood,” by J. Berkson. *Ann. Statist.* **8** 473–478.
- (1982a) Limit theorems for empirical measures and Poissonization. In *Statistics and Probability. Essays in Honor of C.R. Rao* (G. Kallianpur, P. R. Krishnaiah and J. K. Ghosh, eds.) 455–463. North-Holland, Amsterdam.
- (1982b) On the risk of Bayes estimates. In *Statistical Decision Theory and Related Topics III* (S. S. Gupta and J. O. Berger, eds.) **2** 121–137. Academic Press, New York.
- (1982c) On some stochastic models of tumor growth and metastasis. In *Probability Models and Cancer* (L. Le Cam and J. Neyman, eds.) 265–286. North-Holland, Amsterdam.
- (1982d) A remark on empirical measures. In *Festschrift for Erich L. Lehmann* (P. Bickel, K. Doksum and J. L. Hodges, Jr, eds.) 305–327. Wadsworth, Belmont, CA.
- (1983) An extension of a theorem of H. Chernoff and E. L. Lehmann. In *Recent Advances in Statistics* (M. H. Rizvi, J. Rustagi and D. Siegmund, eds.) 303–337. Academic Press, New York (with C. Mahan and A. Singh).
- (1984) Review of “*Statistical Estimation: Asymptotic Theory*,” by I. A. Ibragimov and R. Z. Has’minskii, and “*Contributions to a General Asymptotic Statistical Theory*,” by J. Pfanzagl and W. Wefelmeyer. *Bull. Amer. Math. Soc.* **11** 392–400.
- (1985a) Sur l’approximation de familles de mesures par des familles gaussiennes. *Ann. Inst. H. Poincaré* **21** 255–287.
- (1985b) On Lévy’s martingale central limit theorem. *Sankhyā Ser. A* **47** 141–155 (with P. Jeganathan).
- (1986a) The central limit theorem around 1935 (with discussion). *Statist. Sci.* **1** 78–96.
- (1986b) Comment on “Consistency of Bayes estimates,” by D. A. Freedman and P. Diaconis. *Ann. Statist.* **14** 59–60.
- (1987) Convergence of stochastic empirical measures. *J. Multivariate Anal.* **23** 159–168 (with R. J. Beran and P. W. Millar).
- (1988a) Discussion of “The Likelihood Principle,” by J. O. Berger and R. L. Wolpert. *IMS Lecture Notes Monogr. Ser.* **6** 182–185. IMS, Hayward, CA.
- (1988b) On the preservation of local asymptotic normality under information loss. *Ann. Statist.* **16** 483–520 (with G. L. Yang).

- (1988c) Distinguished statistics, loss of information and a theorem of Robert B. Davies. In *Statistical Decision Theory and Related Topics IV* (S. Gupta and J. O. Berger, eds.) 2 163–175. Springer, New York (with G. L. Yang).
- (1990a) Maximum likelihood: An introduction. *Internat. Statist. Rev.* **58** 153–171.
- (1990b) On the standard asymptotic confidence ellipsoids of Wald. *Internat. Statist. Rev.* **58** 129–152.
- (1990c) A conversation with Ildar Ibragimov. *Statist. Sci.* **5** 347–355 (with P. J. Bickel).
- (1991) Some recent results in the asymptotic theory of statistical estimation. In *Proc. International Congress of Mathematicians 1083–1090*. Math. Soc. Japan, Tokyo.
- (1992a) Review of “*Comparison of Statistical Experiments*,” by E. Torgersen. *SIAM Rev.* **34** 669–671.
- (1992b) Stochastic models of lesion induction and repair in yeast. *Math. Biosci.* **112** 261–270.
- (1994) An infinite dimensional convolution theorem. In *Statistical Decision Theory and Related Topics 5* (S. S. Gupta and J. O. Berger, eds.) 401–411. Springer, New York.
- (1995) Neyman and stochastic models. *Probab. Math. Statist.* **15** 37–45.
- (1996) Comparison of experiments: A short review. In *Statistics, Probability and Game Theory. Papers in Honor of David Blackwell* 127–138. IMS, Hayward, CA.
- (1997) Metric dimension and statistical estimation. In *Advances in Mathematical Sciences: CRM’s 25 Years* 303–311. Amer. Math. Soc., Providence, RI.
- (1998a) Recollections on my contacts with Jaroslav Hájek. In *Collected Works of Jaroslav Hájek with Commentary* (M. Hušková, R. Beran and V. Dupač, eds.) 21–28. Wiley, New York.
- (1998b) Asymptotic normality of experiments. In *Encyclopedia of Statistical Sciences. Update Series* (S. Kotz, C. Read and D. Banks, eds.) 2 21–31. Wiley, New York.
- (1999) About tangents. *Math. Methods Statist.* **8** 209–219.
- (2000a) Estimation with quadratic loss. In *Statistics for the 21st Century* (C. R. Rao and G. J. Székely, eds.) 251–263. Dekker, New York.
- (2000b) La statistique mathématique depuis 1950. In *Development of Mathematics 1950–2000* (J.-P. Pier, ed.) 735–761. Birkhäuser, Basel.

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- (1965) *Bernoulli, Bayes, Laplace*. Springer, New York (with J. Neyman).
- (1967) *Proc. Fifth Berkeley Symp. Math. Statist. Probab.* **1–5**. Univ. California Press, Berkeley (with J. Neyman).
- (1969) Théorie asymptotique de la décision statistique. *Séminaire de Mathématiques Supérieures* (Été 1968) **33** 7–143. Les Presses de l’Université de Montréal.
- (1972) *Proc. Sixth Berkeley Symp. Math. Statist. Probab.* **1–6**. Univ. California Press, Berkeley (with J. Neyman and E. L. Scott).
- (1974) *Asymptotic Methods in Statistical Decision Theory. Publications du Centre Recherches Mathématiques, Université de Montréal, Canada*. CRM, Univ. Montréal, Canada.
- (1982) *Probability Models and Cancer*. North-Holland, Amsterdam (with J. Neyman).
- (1985) *Proc. Berkeley Conference in Honor of Jerzy Neyman and Jack Kiefer 1–2*. Wadsworth, Belmont, CA (with R. A. Olshen).
- (1986) *Asymptotic Methods in Statistical Decision Theory*. Springer, New York.
- (1990) *Asymptotics in Statistics. Some Basic Concepts*. Springer, New York (with G. L. Yang). (Chinese translation: Science Press, Beijing, 1994.)
- (2000a) *Asymptotics in Statistics. Some Basic Concepts*, 2nd ed. Springer, New York (with G. L. Yang).

- (2000b) *Game Theory, Optimal Stopping, Probability and Statistics. Papers in Honor of Thomas S. Ferguson.* IMS, Beachwood, OH (with F. T. Bruss).

Unpublished Papers

- (1950a) Etude sur les Crues (Abstract, Chapters 1–3).
- (1950b) Etude sur les Crues (Chapter 4, conclusion, figures, bibliography).
- (1968) Remarks on the Bernstein–von Mises theorem. 82 pp.
- (1970) Note on a certain class of measures. 37 pp.
- (1972) On replacing a fixed sample size by a random variable. 43 pp.
- (1977) Addendum to the paper “A reduction theorem for certain sequential experiments.” 23 pp.
- (1981) Nonanaphylactic food allergies mediated by immune complexes: I. Evidence for immune complex mediated vascular inflammation. 12 pp.
- (1983) On the range of validity of J. Berkson’s complaints about maximum likelihood. 4 pp. (Invited talk at the Joint Statistical Meeting in Washington, DC.)
- (1986) On the Bernstein–von Mises theorem. Technical Report No. 57. 17 pp.
- (1987) Harold Cramér and sums of independent random variables. Technical Report No. 103, Dept. Statistics, Univ. California, Berkeley. 23 pp. (Invited talk at the IMS annual meeting in San Francisco.)
- (1988a) On some stochastic models of the effect of radiation on cell survival. Technical Report No. 136, Dept. Statistics, Univ. California, Berkeley. 44 pp.
- (1988b) On the Prokhorov distance between the empirical process and the associated Gaussian bridge. Technical Report No. 170, Dept. Statistics, Univ. California, Berkeley. 18 pp.
- (1989) On measurability and convergence in distribution. Technical Report No. 211, Dept. Statistics, Univ. California, Berkeley. 15 pp.
- (1990) Some special results of measure theory. Technical Report No. 265, Dept. Statistics, Univ. California, Berkeley. 39 pp.
- (1993) On the variance of estimates with prescribed expectations. Technical Report No. 393, Dept. Statistics, Univ. California, Berkeley. 43 pp.