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## Anders Hald (1913-2007)

### Writings on the History of Probability and Statistics

#### Introduction

For his scientific, pedagogical and organisational achievements Anders Hald has been called the father of the modern Danish tradition in Statistics (Lauritzen 2008; see also Keilding (2008)). Hald came to the history of statistics late but from his retirement in 1982 until his death he devoted himself to its study and produced a substantial body of work.

Two books dominate the Hald bibliography. In the Preface to the first, *A History of Probability and Statistics and Their Applications before 1750*, Hald explained how he intended to write a book on the history of statistics in the nineteenth century as such a book was badly needed. However, he had difficulties understanding Laplace whose roots were in the eighteenth century. Reading Laplace's predecessors Hald found that the treatment of many topics in Todhunter's *A History of the Mathematical Theory of Probability: from the Time of Pascal to that of Laplace* (1865) was inadequate and so the first book was an introduction to the one he had originally planned. Laplace was the main presence in his second, much larger book *A History of Mathematical Statistics from 1750 to 1930* which took the story up to the time of Fisher and to Hald's

own entry into Statistics. A third book, *A History of Parametric Statistical Inference from Bernoulli to Fisher, 1713–1935*, picked out a single thread from the two earlier works.

## Obituaries

- Neils Keiding (2008) Obituary: Anders Hald, 1913-2007, [IMS Bulletin, 2007 37 issue 1, 12.](#)
- Steffen Lauritzen (2008) Obituary: Professor Anders Hald, 1913-2007, forthcoming in *Journal of the Royal Statistical Society: Series A*.

## A list of Hald's writings

Most of Hald's writings were noted in *Mathematical Reviews* and where this is the case a link is given.

## Books

- *A History of Probability and Statistics and Their Applications before 1750*. Wiley Series in Probability and Mathematical Statistics. New York (Wiley). 1990. xii + 586 pp. ISBN: 0-471-50230-8. [MR: Lancaster.](#)
- *A History of Mathematical Statistics from 1750 to 1930*. Wiley Series in Probability and Statistics: Texts and References Section. A Wiley-Interscience Publication. John Wiley & Sons, Inc., New York, 1998. xx+795 pp. ISBN: 0-471-17912-4. [MR: Seneta.](#)
- *A History of Parametric Statistical Inference from Bernoulli to Fisher, 1713–1935*. Sources and Studies in the History of Mathematics and Physical Sciences. Springer, New York, 2007. xiv+223 pp. ISBN: 978-0-387-46408-4; 0-387-46408-5. [MR: Bellhouse.](#)

## Articles

T. N. Thiele's contributions to statistics. *International Statistical Review*. 49, (1981), no. 1, 1-20. [MR](#) Reprinted in Steffen L.

Lauritzen Thiele: *Pioneer in Statistics*. Oxford University Press, New York, 2002. [MR](#)

Statistikens teori (Theoretical Statistics) in Københavns Universitet 1479-1979 (University of Copenhagen 1479-1979), pp. 213-327. Copenhagen: Gad, 1983.

(With S. Johansen) On de Moivre's recursion formulae for the duration of play. *International Statistical Review*. 51, (1983) no. 3, 239-253. [MR](#)

Commentary on De mensura sortis. *International Statistical Review* 52 (1984), no. 3, 229-236. [MR](#)

Galileo's statistical analysis of astronomical observations. *International Statistical Review* 54 (1986), no. 2, 211-220. [MR](#)

On the early history of life insurance mathematics. *Scandinavian Actuarial Journal*. (1987), no. 1-2, 4-18. [MR](#)

On de Moivre's solutions of the problem of duration of play, 1708--1718. *Archive for History of Exact Sciences* 38 (1988), no. 2, 109-134. [MR](#)

Hald, A. Evaluations of the Beta probability integral by Bayes and Price. *Archive for History of Exact Sciences* 41 (1990), no. 2, 139-156. [MR](#)

On the history of maximum likelihood in relation to inverse probability and least squares. *Statistical Science*, 14 (1999), no. 2, 214-222. [MR](#)

Studies in the history of probability and statistics. XLVII. Pizzetti's contributions to the statistical analysis of normally distributed observations, 1891. *Biometrika* 87 (2000), no. 1, 213-217. [MR](#)

The early history of the cumulants and the Gram-Charlier series, *International Statistical Review* 68 (2000), no. 2, 137-153. Reprinted in Steffen L. Lauritzen Thiele: *Pioneer in Statistics*. Oxford University Press, New York, 2002. [MR](#)

On the history of the correction for grouping, 1873--1922. *Scandinavian Journal of Statistics*, 28 (2001), no. 3, 417-428. [MR](#)

On the history of series expansions of frequency functions and sampling distributions, 1873-1944, Matematisk-fysiske meddelelser, 49 ISSN: 00233323, Published: Copenhagen : C.A. Reitzels Forlag, 2002. .

The history of the law of large numbers and consistency Preprint (Københavns universitet. Department of Applied Mathematics and Statistics); no. 2, 2003. 38pp.

Nogle danske statistikers liv og deres værker. Matematisk-fysiske meddelelser; bd. 51, Published: København : 2005. 36 pp.

## Reviews of the books

Hald's books were widely reviewed in the Statistics journals and received enthusiastically.

### [A History of Probability and Statistics and Their Applications Before 1750](#)

Reviewer George A. Barnard: *SIAM Review*, 33 (1991), no. 2, 286-290.

Reviewer S. C. Pearce: *Biometrics*, 47 (1991), no. 3. 1200-1200

Reviewer Eugene Seneta: *Historia Mathematica*, 18 (1991), no. 1, 75-78.

Reviewer A. W. F. Edwards: *Journal of the Royal Statistical Society. Series A (Statistics in Society)*, 155 (1992) no. 1, 172-173

Reviewer David J. Hand: *Applied Statistics*, 41 (1992) no. 1, 219-219.

Reviewer James Reilly: *The Statistician*, 41 (1992), no. 2, 254-254

### **[A History of Mathematical Statistics from 1750 to 1930.](#)**

Reviewer A. W. Kemp: *Biometrics*, 54, (1998), no. 3, 1200-1201.

Reviewer Herbert A. David: *Journal of the American Statistical Association*, 94, (1999), no. 3, 646-648

Reviewer Eric R. Ziegel: *Technometrics*, 41 (1999), no. 1 85-85.

Reviewer Bernard Bru *Mathématiques et Sciences Humaines*, (2005), n° 171, Automne. [here](#)

**A History of Parametric Statistical Inference from Bernoulli to Fisher, 1713--1935.**

So far only the *Mathematical Reviews* review (above) has appeared.

If you know of any omissions in this list, please let me know.

John Aldrich [john.aldrich@soton.ac.uk](mailto:john.aldrich@soton.ac.uk).