

Bryan F.J. Manly: Brief Curriculum Vitae

Qualifications

BSc DSc (City University, London), Chartered Statistician (Royal Statistical Society, London).

Distinctions

Awarded the title 'Distinguished Statistical Ecologist', International Ecology Congress, Manchester, 1994. Elected Fellow of the Royal Society of New Zealand, 1994 (the national academy of science).

Present Appointments

Senior Biometrician, Western EcoSystems Technology Inc., 2003 Central Avenue, Cheyenne, WY 82001 (telephone 307-634-1756; fax 307-637-6981; e-mail: bmanly@west-inc.com).

Adjunct Professor of Statistics, University of Wyoming, Laramie, Wyoming.

Visiting Professor, Department of Exact Sciences, Luiz de Queiroz School of Agriculture, University of Sao Paulo, Caixa Postal 9, 13418-900, Piracicaba, Sao Paulo, Brazil (telephone 55-19-9126-1574; fax 55-19-3429-4346).

Previous Appointments

Statistician, Fisons Ltd., Felixstowe, UK (1966-7); Assistant Lecturer in Mathematics, University of Salford, UK (1967-70); Lecturer in Statistics, University of Papua and New Guinea (1971-3); Senior Lecturer (1973-82), Associate Professor (1983-86), Chair of Statistics (1987-2000) University of Otago; Visiting Associate Professor, Louisiana State University (1981); Visiting Professor, University of Wyoming (1988); Visiting Research Fellow, Max Plank Institute for Limnology, Ploen, Germany (2000).

Other Activities

Member of numerous committees in the past and present related to statistics and science in general. On the organizing committees for many statistics conferences. Editor: *Proceedings of the Pacific Statistical Congress* (North Holland, 1986); *Estimation and Analysis of Insect Populations* (Springer-Verlag, 1989); *Statistics in Ecology and Environmental Monitoring* (Otago University Press, 1994); *Population and Community Ecology for Insect Management and Conservation* (Balkema, 1998); *Marine Mammal Survey and Assessment Methods* (Balkema, 1999); Chapman and Hall Population and Community Biology Series (1993-2000); Editorial Board Member, *Journal of Environmental and Ecological Statistics* (1993-), *Environmetrics* (1996-), *Journal of Animal Ecology* (2000-), *Researches on Population Ecology* (1999-); Associate Editor (1994-98) Editor (1999-2001), *Journal of Agricultural, Biological and Environmental Statistics*; Associate Editor *Australian and New Zealand Journal of Statistics* (2002-). Referee for several national research grant organizations and many journals in statistics, biology, psychology, anthropology and meteorology. Invited speaker for numerous seminars and workshops in Argentina, Brazil, Canada, Colombia, India, Mexico, New Zealand, UK and USA on topics that have included the analysis of data from stage-structured biological populations, biological sampling, resource selection by animals, and computer intensive statistics in biology.

Government Representation

New Zealand government representative on the Statistics Subgroup for the Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR), 1996-2000. This involved the consideration of issues such as the detection of anomalous years in the Antarctic, the planning of a synoptic krill survey (working with staff of the British Antarctic Survey), and the development of methods for measuring the overlap between fisheries and marine mammals in the use of resources.

Research

Active interests are in the areas of statistical ecology, environmental statistics, computer intensive statistics, statistical archaeology, general applied statistics. Over 180 papers are in refereed scientific journals and conference proceedings. Author of 7 books: *The Statistics of Natural Selection* (Chapman and Hall, 1985); *Multivariate Statistical Methods: a Primer* (Chapman and Hall, 1986, 2nd edition 1994, 3rd edition 2004); *Stage-Structured Populations* (Chapman and Hall, 1990); *Randomization Bootstrap and Monte Carlo Methods in Biology* (Chapman and Hall, 1991, 2nd edition 1996); *The Design and Analysis of Research Studies* (Cambridge University Press, 1992); *Resource Selection by Animals* (Chapman and Hall, 1993, with L. McDonald and D. Thomas, 2nd edition 2002); and *Statistics for Environmental Science and Management* (CRC Press, 2001).

Teaching

Teaching experience includes most topics in statistics and probability at all undergraduate levels, first year algebra and calculus, and a wide range of graduate course, with very considerable experience with course design and the development of new courses. The books *Multivariate Statistical Methods: a Primer*, *The Design and Analysis of Research Studies*, and *Statistics for Environmental Science and Management* are all based on course notes. In addition, a very large number of workshops have been presented for practising scientists. An internet course on environmental statistics is currently being presented through statistics.com to scientists in six countries. This is likely to be run on a regular basis in the future.

Consulting

Recent projects include work for many private and government organizations in New Zealand and the USA on a wide range of topics including the assessment of a new medical treatment for epilepsy, the design and analysis of data on the incidental bycatch of bird and mammal species during commercial fishing, and the estimating of the size of a variety of animal populations using mark-recapture, line transect, stratified sampling, and other methods.

Bryan F.J. Manly, 24 November 2004