

## A Bibliography on Statistical Consulting and Training

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### 1. Introduction

Statistical consulting is one of the very important elements among the professional statistician's activities. It is also an integral part of the duties of many statisticians employed as faculty at universities or colleges. During the last two decades consulting in statistics has become a very important issue and a widely discussed problem among applied statisticians (see, e.g., Hunter 1981; Rustagi and Wolfe 1982; Deming 1986; Hand and Everitt 1987). It is now widely recognized that the traditional applied statistics training alone is not adequate to prepare the student to develop skills in solving real-world problems and to assume the role of a consulting statistician. As a consequence, an increasing number of colleges and universities are now providing formal training in statistical consulting in their applied statistics programs. Several authors have put forth analyses and recommendations for the inclusion of teaching of statistical consulting and the consulting training in an applied statistics program (see, e.g., McCulloch et al. 1985; Carter et al. 1986; Marquardt 1987). Wilson (1992) has argued that statistical consulting should be given formal recognition as scholarship for activities of applied statisticians. There is a growing literature in the field and several national and international meetings have organized sessions and devoted numerous papers for discussing the problem of teaching and training in statistical consulting. A special newsletter devoted to statistical consulting began publication in 1984. The newsletter, titled *The Statistical Consultant*, is published three times a year by the *Section on Statistical Consulting* of the *American Statistical Association*. It carries essays, book reviews, announcements of new publications, professional news and events, and other information of interest to applied statisticians. The newsletter, as of December 1997, has published 42 issues and is currently available from the ASA Central Office in Alexandria, Virginia, at the time of the membership subscription.

This report presents a listing of available literature on consulting and training in statistics. The publications on teaching and learning statistics in general are not included. For such items, the reader is referred to two general bibliographies on teaching of probability and statistics (Misra et al. 1987; Sahai et al. 1996) as well as some specialized bibliographies in substantive fields: in dental journals and dental education (Sahai et al. 1989; Khurshid and Sahai 1996); in nursing and allied health education and literature (Sahai and Khurshid 1992); in biological, medical and health sciences (Sahai et al. 1990; Khurshid and Sahai 1993); and in business, economics and management sciences (Gandhi et al. 1991).

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A list of books devoted entirely to certain aspects of consulting and training in statistics is provided as an appendix (Appendix A). In the compilation of this bibliography, we have made use of previously published bibliographies on statistical consulting by Woodward and Schucany (1977) and Hand (1987). In addition, we have made considerable use of the *Current Index to Statistics*, *Statistical Theory and Methods Abstracts* and the *Science Citation Index* for locating relevant publications. We have found the bibliography very useful in our own work; and we believe that it will also be equally beneficial to students, consulting statisticians, and other professionals.

## 2. Description of Entries

The entries for articles are presented in the following form: Author name(s), year of publication, title of article, name of journal, volume number, and page numbers. The sequence for books is: Author name(s), year of publication, title of book, name of publishing house, and page numbers (if applicable). Multiple-authored items are listed under the first named author only. For each author, the items of which he or she is the sole author are listed according to the year. These are followed by the dual-authored items of which he or she is the senior author and then by the year. A similar ordering is followed for the multiple-authored items. Only page numbers are mentioned for the articles appearing in yearbooks, reports and proceedings, as they generally do not have volume numbers for continuity. The language of the articles, if known to be other than English, is indicated after the title of the article. In order to save space, the conventional abbreviations for the journals, periodicals, proceedings and other publications cited in the bibliography, similar to the ones employed by the *Current Index to Statistics*, have been introduced. A list of the abbreviations with complete names of the publications is given in an appendix (Appendix B) at the end of the bibliography.

Finally, to assist the users of the bibliography in their search for specific references of particular topics, the following letter codes are used to classify each entry:

<b>Code</b>	<b>Explanation of Topic</b>
<b>A</b>	Academic Training
<b>B</b>	Business and Industrial Training
<b>C</b>	Government Training
<b>D</b>	Academic Consulting
<b>E</b>	Business, Government and Industrial Consulting
<b>F</b>	International Training and Consulting
<b>G</b>	Undergraduate/Pregraduate Training and Consulting
<b>H</b>	Graduate/Postgraduate Training and Consulting
<b>I</b>	Student Participation
<b>J</b>	Calculator, Computer, Software, Video and Technology
<b>K</b>	Administrative and Organizational Issues
<b>L</b>	Issues Relevant to Developing Countries
<b>M</b>	Issues of General Interest
<b>N</b>	Statistical Methodology Useful in Training and Consulting
<b>O</b>	Quality Control and Reliability

<b>P</b>	Physical and Engineering Sciences
<b>Q</b>	Agriculture and Biology
<b>R</b>	Medicine and Health
<b>S</b>	Social and Behavioral Sciences
<b>T</b>	Business, Economics and Management Sciences
<b>U</b>	Communication and News Media
<b>V</b>	Client Relations and Human Side of Consulting
<b>W</b>	Personal Anecdotes, Stories and Biographies
<b>X</b>	Professional Codes and Ethics
<b>Y</b>	Nonstatistical Issues in Training and Consulting
<b>Z</b>	Miscellaneous Issues and Topics

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## APPENDIX A

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- Gunter, B.H. (1995). **Making Training Work**. American Society for Quality Control: Milwaukee, Wisconsin, U. S. A.
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- Hand, D.J., Daly, F., McConway, K., Lunn, D., and Ostrowski, E. (1993). **A Handbook of Small Data Sets**. Chapman and Hall: London.
- Hawkins, A. (Ed.) (1990). **Training Teachers to Teach Statistics**. International Statistical Institute: Voorburg, The Netherlands.
- Hutchinson, T.P. and Lai, C.D. (1991). **The Engineering Statistician's Guide to Continuous Bivariate Distributions**. Rumsby Scientific Publishing: Adelaide, Australia.
- Lewis, T. and Barnett, V. (1987). **The Statistician at Work**. Open University: Milton Keynes, U. K. (Two Cassette Tapes).
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- Rustagi, J.S. and Wolfe, D.A. (Eds.) (1982). **Teaching of Statistics and Statistical Consulting**. Academic Press: New York.
- Salsburg, D.S. (1983). **Understanding Randomness: Exercises for Statisticians**. Marcel Dekker: New York.
- Witzling, L.P. and Greenstreet, R.C. (1989). **Presenting Statistics: A Manager's Guide to Persuasive Use of Statistics**. John Wiley: New York.

## APPENDIX B

### Bibliography Abbreviations

AgroJ	Agronomy Journal
AJMMgSci	American Journal of Mathematical and Management Science
AmerStat	The American Statistician
AmMaMnth	The American Mathematical Monthly
AmSci	American Scientist
AnlsMathStat	Annals of Mathematical Statistics
ApplStat	Applied Statistics
ASAAnlMtgs	ASA Annual Meetings

ASAPro150	ASA Sesquicentennial Invited Paper Sessions, M. Gail and N.L. Johnson (Eds.), American Statistical Association, Alexandria, Virginia, U. S. A.
ASAProBiop	ASA Proceedings of the Biopharmaceutical Section, American Statistical Association, Alexandria, Virginia, U. S. A.
ASAProBuEc	ASA Proceedings of the Business and Economic Statistics Section, American Statistical Association, Alexandria, Virginia, U. S. A.
ASAProEnvr	ASA Proceedings of the Section on Statistics and the Environment, American Statistical Association, Alexandria, Virginia, U. S. A.
ASAProGovt	ASA Proceedings of the Section on Government Statistics, American Statistical Association, Alexandria, Virginia, U. S. A.
ASAProPEng	ASA Proceedings of the Section on Physical and Engineering Sciences, American Statistical Association, Alexandria, Virginia, U. S. A.
ASAProQIPr	ASA Proceedings of the Quality and Productivity Section, American Statistical Association, Alexandria, Virginia, U. S. A.
ASAProSoSt	ASA Proceedings of the Social Statistics Section, American Statistical Association, Alexandria, Virginia, U. S. A.
ASAProStEd	ASA Proceedings of the Statistical Education Section, American Statistical Association, Alexandria, Virginia, U. S. A.
ASAProStCp	ASA Proceedings of the Statistical Computing Section, American Statistical Association, Alexandria, Virginia, U. S. A.
ASAProSrvyRsr	ASA Proceedings of the Survey Research Methods Section, American Statistical Association, Alexandria, Virginia, U. S. A.
ASQCTekCon	ASQC Technical Conference Transactions, American Society for Quality Control, Milwaukee, Wisconsin, U. S. A.
AstrJSt	The Australian Journal of Statistics
BIAS	Bulletin in Applied Statistics
Biomed	Biomedicine: European Journal of Clinical and Biological Research
BiomtrcJ	Biometrical Journal
Biomtrcs	Biometrics
BioPrax	Biometrie-Praximetrie
BISIn	Bulletin of the International Statistical Institute
BJORSC	Belgian Journal of Operations Research, Statistics and Computer Science
BMJ	British Medical Journal
Cancer	Cancer
CandJSt	Canadian Journal of Statistics
CAnDnnes	Cashiers de l'Analyse des Donnees, Centrale des Revues Dunod-Gauthier-Villars, Montreuil Cedex, France
Chance	Chance: New Directions for Statistics and Computing
Ciencia	Revista Mexicana de la Academia de Investigacion Cientifica
ClnRxTrp	Clinical Pharmacology and Therapeutics
CmpBiomd	Computer Methods and Programs in Biomedicine
CmpStDA	Computational Statistics and Data Analysis
CommStA	Communications in Statistics, Part A: Theory and Methods

- COMPSTAT4 Computational Statistics: Proceedings of the Fourth Symposium on Computational Statistics, M.M. Barritt and D. Wishart (Eds.), Physica-Verlag, Heidelberg, Germany
- COMPSTAT5 Computational Statistics: Proceedings of the Fifth Symposium on Computational Statistics, H Caussinus, P. Ettinger, and R. Tomassone (Eds.), Physica-Verlag, Heidelberg, Germany
- COMPSTAT9 Computational Statistics: Proceedings of the Ninth Symposium on Computational Statistics, K. Momirovic and V. Mildner (Eds.), Physica-Verlag, Heidelberg, Germany
- COMPSTAT10 Computational Statistics: Proceedings of the Tenth Symposium on Computational Statistics, Y. Dodge and J. Whittaker (Eds.), Physica-Verlag, Heidelberg, Germany
- ConClnTr Controlled Clinical Trials
- CrTpSurSmp Current Topics in Survey Sampling, D. Krewski, R. Platek, and J.N.K. Rao (Eds.), Academic Press, New York, U. S. A.
- DataAnInf4 Data Analysis and Informatics 4, E. Diday, Y. Escoufier, L. Lebart, J. Pages, Y. Schektman, R. Tomassone (Eds.), North Holland, Amsterdam
- DesDataAnl Design, Data and Analysis, C. L. Mallows (Ed.), John Wiley, New York, U. S. A.
- DrugInfJ Drug Information Journal
- DQualCntrl Data Quality Control: Theory and Pragmatics, G.I. Liepins and V.R.R. Uppuluri (Eds.), Marcel Dekker, New York, U. S. A.
- EconCy Economic Computation and Economic Cybernetics Studies and Research, Academy of Economic Studies, Laboratories of Economic Cybernetics Department, Bucharest, Rumania
- EDVMdBio EDV in Medizin und Biologie
- EkonSamT Ekonomiska Samfundets Tidskrift: Economics Society of Finland, Helsinki, Finland
- EncyStatSc Encyclopedia of Statistical Sciences, S. Kotz and N.L. Johnson (Eds.), John Wiley, New York, U. S. A.
- EnergyMaMo Energy: Mathematics and Models, Proceedings of a Conference at Alta, Utah; SIAM, Philadelphia, Pennsylvania, U. S. A.
- EnvHlthPers Environmental Health Perspectives, National Institute of Environmental Health Sciences, Research Triangle Park, North Carolina, U. S. A.
- Estd Estadística
- ExpAgric Experimental Agriculture
- Heurist Heuristica, Universidad del Valle, Cali, Colombia
- HistSci History of Science
- HumOrg Human Organization
- IJEpid International Journal of Epidemiology
- IntJourNurStu International Journal of Nursing Studies
- IntStRvw International Statistical Review

ISICelStat	A Celebration of Statistics: The ISI Centenary Volume, A.C. Atkinson and S.E. Fienberg (Eds.), Springer-Verlag, New York, U. S. A.
ItlContSta	Italian Contributions to the Methodology of Statistics, Italian Statistical Society, Rome, Italy
JAppStat	Journal of Applied Statistics
JApPsych	Journal of Applied Psychology
JASA	Journal of the American Statistical Association
JChrnDis	Journal of Chronic Diseases
JEdPsych	Journal of Educational Psychology
JEdStat	Journal of Educational Statistics
JMedSys	Journal of Medical Systems
JOffStat	Journal of Official Statistics
JOperRsr	Journal of the Operational Research Society
JpJAppSt	Japanese Journal of Applied Statistics
JRSS-A	Journal of the Royal Statistical Society, Series A
JStCmpSm	Journal of Statistical Computation and Simulation
JStEd	Journal of Statistics Education
JStPar	Journal de Societe de Statistique de Paris
MaScitst	Mathematical Scientist
MathScNews	Mathematics Conference Board of the Mathematical Sciences Newsletter
MedEd	Medical Education
MedUseStat	Medical Uses of Statistics, J. C. Bailar II. and F. Mosteller (Eds.), New England Journal of Medicine, Waltham, Massachusetts, U. S. A.
Metron	Metron
MInfoMed	Methods of Information in Medicine
MkngStstcn	The Making of Statisticians, J. Gani (Ed.), Springer-Verlag, New York, U. S. A.
NCfMaSci	Newsletter, Conference Board of the Mathematical Sciences, 832 Joseph Henry Building, 2100 Pennsylvania Avenue, N. W., Washington, D. C. 20037, U. S. A.
NEJM	New England Journal of Medicine
NYStstcian	The New York Statistician
NZIndStat	The New Zealand Statistician
ORNLRvw	Oak Ridge National Laboratory Review
PacStatCon	Proceedings of the Pacific Statistical Congress, I. S. Francis, B. F. J. Manly and F. C. Lam (Eds.), North-Holland, Amsterdam
PBCenARC	Proceedings of the Bureau of the Census Annual Research Conference, Bureau of the Census, U. S. Department of Commerce, Washington, D.C., U. S. A.
PCompScSt6	Computer Science and Statistics: Proceedings of the Sixth Annual Symposium on the Interface
PCompScSt10	Computer Science and Statistics: Proceeding of the Tenth Annual Symposium on the Interface, D. Hogben and D.W. File (Eds.), U.S. Government Printing Office, Washington, D.C., U. S. A.



- PCompScSt12 Computer Science and Statistics: Proceedings of the Twelfth Annual Symposium on the Interface, J. F. Gentleman (Ed.), Department of Statistics, University of Waterloo, Waterloo, Ontario, Canada
- PCompScSt13 Computer Science and Statistics: Proceedings of the Thirteenth Annual Symposium on the Interface, W. F. Eddy (Ed.), Springer Verlag, New York, U. S. A.
- PCompScSt17 Computer Science and Statistics: Proceedings of the Seventeenth Annual Symposium on the Interface, D. M. Allen (Ed.), North Holland, Amsterdam
- PCompScSt18 Computer Science and Statistics: Proceedings of the Eighteenth Annual Symposium on the Interface, T. J. Boardman (Ed.), American Statistical Association, Alexandria, Virginia, U. S. A.
- PCompScSt21 Computer Science and Statistics: Proceedings of the Twenty First Annual Symposium on the Interface, L. Malone (Ed.), American Statistical Association, Alexandria, Virginia, U. S. A.
- PCompScSt23 Computer Science and Statistics: Proceedings of the Twenty Third Annual Symposium on the Interface, E.M. Keramidas (Ed.), Interface Foundation of North America, Fairfax Station, Virginia, U. S. A.
- PCompScSt26 Computer Science and Statistics: Proceedings of the Twenty Sixth Annual Symposium on the Interface, J. Sall and A. Lehman (Eds.), Interface Foundation of North America, Fairfax Station, Virginia, U. S. A.
- PCompScSt27 Computer Science and Statistics: Proceedings of the Twenty Seventh Annual Symposium on the Interface, M. M. Meyer and J.L. Rosenberger (Eds.), Interface Foundation of North America, Fairfax Station, Virginia, U. S. A.
- PEuSympSt Proceedings of the European Symposium on Biostatistics/Medical Statistics, J. Adam and E. Hiller (Eds.), Humbolt University, Berlin, Germany
- PIBiomC9 Proceedings of the Ninth International Biometric Conference, International Biometric Society, Washington, D. C., U. S. A.
- PICTeachSt1 Proceedings of the First International Conference on Teaching Statistics, D.R. Grey, P. Holmes, V. Barnett, and M. Constable (Eds.), Almquist, Sweden
- PICTeachSt2 Proceedings of the Second International Conference on Teaching Statistics, R. Davidson and J. Swift (Eds.), University of Victoria Conference Services, Victoria, British Columbia, Canada
- PICTeachSt3 Proceedings of the Third International Conference on Teaching Statistics, D. Vere-Jones (Ed.), International Statistical Institute, Voorberg, The Netherlands
- PICTeachSt4 Proceedings of the Fourth International Conference on Teaching Statistics, Y. Escoufier and A. El-Ghazali (Eds.), International Statistical Institute, Voorberg, The Netherlands

ProAIStat2	Artificial Intelligence and Statistics, II: Proceedings of the Second International Conference, D. J. Hand (Ed.), J. C. Baltza AG Scientific Publishing Co., Basel, Switzerland
ProFSMIntAStEd	Proceedings of the First Meeting, International Association for Statistical Education, L. Brunelli and G. Cicchitelli (Eds.), University of Perugia, Italy
ProICOTSt2	Training Teachers to Teach Statistics: Proceedings of the International Statistical Institute Round Table Conference, Budapest, Hungary, A Hawkins (Ed.), International Statistical Institute, Voorberg, The Netherlands
ProISI40	Proceedings of the Fortieth Session of the International Statistical Institute, Voorburg, Netherlands
ProItlSS	Proceedings of the Italian Statistical Society, Societa Italiana di Statistica, Salitce dei Crescenzi, Roma, Italy
ProSISAnv	Proceedings of the Anniversary Conference of the Italian Statistical Society, Societa Italiana di Statistica, Salitce dei Crescenzi, Roma, Italy
PsyMed	Psychological Medicine
PsyStCarletrn	Proceedings of the Symposium on Statistics and Related Topics, Carleton University, Ottawa, Ontario, Canada
PTeachgStat	Proceedings of the Workshop on the Teaching of Statistics, State University of New York, Oneonta, New York, U. S. A.
PUBcl	Publicaciones Universidad de Barcelona, Seccio' de Matematiques, Universitat Autonoma de Barcelona, Barcelona, Spain
PWkStDBM1	Proceedings of the First LBL Workshop on Statistical Database Management, H.K.T. Wong (Ed.), Lawrence Berkeley Laboratory, University of California, Berkeley, California, U. S. A.
Qual&Qty	Quality and Quantity: International Journal of Methodology
QualPro	Quality Progress, American Society for Quality Control, Milwaukee, Wisconsin, U. S. A.
RptStBus2	Report of the Second Annual Conference on Making Statistics More Effective in Schools of Business, S. Chatterjee and A. Tenebein (Eds.), Graduate School of Business Administration, New York University, New York, U. S. A.
RstAIP	Reports of Statistical Application and Research, Union of Japanese Scientists and Engineers, Tokyo, Japan
RStAJp	Rivista di Statistica Applicata
RStApp	Revue de Statistique Appliques, Institut de Statistique, Universite de Paris, Paris, France
RvUSnr	Revista de la Universidad de Santander, Spain
SankhyaB	Sankhya, Series B
SASUsrGp5	Proceedings of the Fifth SAS Users Group International Conference, Cary, North Carolina, U. S. A.
SASUsrGp7	Proceedings of the Seventh SAS Users Group International Conference, Cary, North Carolina, U. S. A.

SASUsrGp8	Proceedings of the Eighth SAS Users Group International Conference, Cary, North Carolina, U. S. A.
SASUsrGp13	Proceedings of the Thirteenth SAS Users Group International Conference, Cary, North Carolina, U. S. A.
Science	Science
SciRes	Scientific Research: McGraw-Hill's News Magazine of Science
Simltn	Simulation
StatCon	The Statistical Consultant: The Newsletter of the Section on Statistical Education of the American Statistical Association
StatJUN	Statistical Journal of the United Nations Economic Commission for Europe
StatMed	Statistics in Medicine
StatMedRsr	Statistics in Medical Research, V. Mike and J. Stanley (Eds.), John Wiley and Sons, New York, U. S. A.
StatRvw	Statistical Review, National Central Bureau of Statistics, Stockholm, Sweden
Stats	Stats: The Magazine for Students of Statistics
Statstca	Statistica
StatSci	Statistical Science
StDAIndExp	Statistical Design and Analysis of Industrial Experiments, S. Ghosh (Ed.), Marcel Dekker, New York, U. S. A.
StReport	Statistical Reporter, Statistics Policy Division, Office of Management and Budget, Washington, D. C. , U. S. A.
StSfwNI	Statistical Software Newsletter, International Statistical Institute, Voorburg, The Netherlands
Ststcian	The Statistician
SurvyMet	Survey Methodology
TeachgSt	Teaching Statistics
Technmcs	Technometrics
TOnderwR	Tijdschrift Voor Onderwijs Research
UnivStatEd	Modern Interdisciplinary University Statistics Education: Proceedings of a Symposium, Committee on Applied and Theoretical Statistics, National Academy Press, Washington, D. C., U. S. A.

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