

Education

Antioch College, Ohio
B.A. in Anthropology & Sociology 1974

University of Auckland, New Zealand
M.A. in Biological Anthropology 1977
Ph.D. in Biological Anthropology 1983

Honours and Awards

Research Training Fellowship, Field Museum of Natural History, Chicago 1974
First Class Honours in Anthropology, University of Auckland 1977
N.Z. University Grants Committee Postgraduate Scholarship 1978-1980
N.Z. Medical Research Council Postgraduate Scholarship 1978-1980

Teaching and Research Positions

Junior Lecturer in Biological Anthropology, University of Auckland 1977.

Programmer/Data Analyst for the Auckland Child Growth Study 1977-1979.

Visiting Fellow, Yale University 1979-1980.

Lecturer, Massey University 1981-1983.

Statistical and computing specialist based in the Computer Centre. Taught courses in computing and data analysis. Strong focus on consulting work with graduate students and staff engaged in research which required a computing and statistics component.

Lecturer, University of Auckland 1984-1986.

Statistical and workstation (PC and Macintosh) consultant based in the Computer Centre. Responsibility for University student computing systems (mainly Unix and DEC based back in the old Mainframe days). Focus on consulting work with graduate students and staff engaged in research, and the general introduction of PCs into the teaching environment of the University. Also taught Stage 3 Quantitative Research Methods in the Anthropology Department.

Computer Department Manager, AGB: McNair Research (now ACNeilsen) 1987-1989.

Head of Computing and Statistics for the largest Market and Media Research organisation in New Zealand. Led a team of six people providing custom built database and analysis systems, including a very early independent development of client/server architecture. Consulting work on research design and statistical issues for all major survey projects undertaken in the company. Managed a computer centre with a staff of 7, 3 networked mainframes and PCs catering for about 20 in house users and 60 remote clients.

Research Fellow, Alcohol and Public Health Research Unit, Department of Community Health, University of Auckland Medical School 1989-1992. Baseline research on levels of use of marijuana and other illicit drugs in NZ for the Department of Health.

Steve Black -- Curriculum Vitae

Led a team of about 35 people. Installed hardware and software for in house computer based telephone interviewing system. Data analysis in SAS.

Director of R&D, Information Tools Ltd. 1989-2001.

Founding Director of Information Tools which develops specialised software for visual multivariate statistical analysis of marketing, media and sales data under Microsoft Windows. The company is based in Auckland and exports software around the world. My role included designing data mining and knowledge discovery methods and data visualisation tools which integrate the use of OLAP style data with market research respondent based data. The software development team had about 10 people. I had recruited and built a good team and was happy to leave them to it when I retired.

Director, P.C.I.S Ltd. 2003-present.

Recruited out of early retirement to assist with the design and implementation of the computer software which forms the basis of a Cost Modelling software which is used in the building industry. It represents a paradigm change in the way in which Quantity Surveying informs project design from the early stages.

Major Interests and Directions

My career started out in a particular field of application (Demography, Human Ecology and Evolution, Public Health Research) but I drifted towards computing and statistics as they are applied in a variety of areas. I've spent many years in Universities and in business doing research and consulting on experimental design, survey methods, and data analysis. My interests in computing and statistics are more applied than theoretical. I like creating programs which help computers and people work together productively. I have done work in simulation and modelling, compilers and languages (which were in use at Information Tools), database design, user interface design, software project management and development methodologies, decision support systems, data warehousing, OLAP, data mining, knowledge discovery, and system performance monitoring. Jack of all trades, master of none. My background in Anthropology also gives me a strong interest in the human side of information technology and the human side of organisations in general.

Professional Societies

New Zealand Statistical Association
New Zealand Association of Scientists (science and public policy focus)

Principal Reports and Publications

Black, Stephen 1976. "Review of: Prehistoric Carrying Capacity: A Model, by Ezra B.W. Zubrow." *Journal of the Polynesian Society* 85:431-33.

Black Stephen 1977. *The Excavation at Teobebe, Teop Island*. Reports of the Bougainville Archaeological Survey, Number 10. Chicago: Field Museum of Natural History.

Steve Black -- Curriculum Vitae

Black, Stephen (with R.C. Green) 1977. "Radiocarbon Dates from the Solomon Islands to 1975." *Oceania Prehistory Records* 4:1-54.

Black, Stephen 1977. *The Demography of Small Closed Populations: a computer simulation*. M.A. Thesis, University of Auckland.

Black, Stephen 1978. "Polynesian Outliers: a study in the survival of small populations." In Ian Hodder (ed), *Simulation Studies in Archaeology*. Cambridge: Cambridge University Press.

Black, Stephen 1980. "Demographic Models and Island Colonization in the Pacific." *New Zealand Journal of Archaeology* 2:51-64.

Black, Stephen 1980. "Review of: Extinction and Survival in Human Populations by Charles Laughlin and Ivan Brady." *Journal of the Polynesian Society* 89: 271-274.

Abell, W, Black, S. and T. Drawneek 1981. *PRIME User Handbook*. Palmerston North: Massey University Computer Centre. 252 pages.

Black, Stephen 1983. *Quantitative Genetics of Anthropometric Variation in the Solomon Islands*. Publication Number 83-23293. Ann Arbor: University Microfilms International. 256 pages.

Black, Stephen, Byrne, Susan J. and Lee Lai Ching 1985. "Simulated Model of a Demand-Driven Traffic Signal System." *New Zealand Operational Research* 13:97-106.

Kirkland, John, Johns, D., Lambourne, R.D. and Stephen Black 1986. "Picgrids as a technique for investigating parent-infant interaction." *Early Child Development and Care* 24:1-15

Kirkland, John, Black, Stephen, and R.D. Lambourne 1988. "Three-dimensional representations of grid-type data." in F Fransella and L. Thomas (eds) *Experimenting with Personal Construct Psychology*. London: Routledge and Kegan Paul.

Black, Steve and Sally Casswell 1991. *Drugs in New Zealand: A Survey 1990*. Auckland: Alcohol and Public Health Research Unit, University of Auckland.

Black, Steve and Sally Casswell 1992. "User reports of problems associated with alcohol and marijuana." *British Journal of Addiction* 87:1275-1280.

Wyllie, A, S. Black, J.F. Zhang and S. Casswell 1994. "Sample Frame Bias in Telephone-Based Health Research in New Zealand." *The New Zealand Statistician* 29(2): 40-53

Abell, Walter and Steve Black 1997, "Business Use of the Internet in New Zealand: A Follow-Up Study". Research Report 97/09 Centre for Computing and Biometrics, Lincoln University.

During the time I have been working in private research all the results are confidential to clients or proprietary to the company concerned, so there are no published reports of most of my work.