



About the Centre

The Centre for Statistical and Survey Methodology (CSSM) is a research, consulting and training centre located in the School of Mathematics and Applied Statistics at the University of Wollongong.

The CSSM is a centre of excellence in design and analysis for complex populations. We aim to support the quality of statistical practice and thinking in Australia, by enabling government and business organisations to access our expertise on a cost recovery basis. The Centre can undertake contract research, deliver statistical training courses, conduct statistical projects, advise on tender specifications, and review proposals and reports. In addition, members of the Centre conduct fundamental research in statistical methodology.

The Centre is staffed by 10 professional statisticians. This includes a Professor of Statistical Methodology position established in 2005 with the financial support of the Australian Bureau of Statistics.

Training

CSSM staff have extensive experience in presenting short courses to university researchers, private companies and government agencies. The Centre can deliver courses on:

- Introduction to the SAS statistical environment;
- Statistical Methods for Research Workers;
- Sampling and Survey Methods;
- Design and Analysis of Repeated Surveys;
- Small Area Estimation;
- Analysis of Survey Data;
- Total Survey Design for Household Surveys;
- Measuring and Assuring Data Quality;
- Logistic Regression; and
- Multilevel Modelling.

The CSSM can develop new courses or adapt its existing courses, for presentation on a fee basis. CSSM members are involved in teaching the full range of undergraduate statistics courses and are therefore well placed to develop new courses on a wide variety of topics in statistical and survey methodology. Courses can be aimed at operational staff, survey managers or statisticians and can be tailored to suit client's particular interests.

Statistical Consulting

The CSSM has a range of skills and knowledge relevant to industry and government clients. The Director and Deputy Director have extensive experience as senior managers of statistical areas in the public service. All Centre staff have been involved in consulting for internal or external clients. The Centre can provide a range of statistical services including:

- analysis of business survey and household survey data;
- calculation and evaluation of small area estimates;
- strategies for designing and analysing repeated and longitudinal surveys;
- survey planning including assistance with tender specifications for surveys;
- choice of survey frame and collection method;
- design of questionnaires and interviews;
- sample design;
- evaluation and quality control for surveys; and
- design of planned experiments including clinical trials.

Research

Staff in the Centre are active in methodological research. The CSSM has particular focuses on:

- statistical design, including survey design and experimental design;
- analysis of data from complex populations, including survey, longitudinal, spatial and aggregated data;
- data quality and survey methods, particularly household surveys, telephone surveys and internet surveys;
- statistical confidentiality.

CSSM staff also conduct research on statistical modelling, including semi-parametric and non-parametric methods, multi-level modelling, quasi-likelihood, estimating equations and time series analysis.

The Centre can offer Ph.D students a range of innovative and relevant statistical research programs. There are currently 11 Ph.D students supervised by members of the Centre, and we welcome enquiries from prospective research students.

Contact Us

For more information on the CSSM, see our website <http://www.math.uow.edu.au/research/cssm.shtm>

or contact the Director or Deputy Director:

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