

政府統計に関する研究及び教育の方策に関して

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1. 研究組織に関して
 - 今後の調査環境の変化への対応, 大学との協力のベースとして研究組織が必要
 - アメリカのセンサス局の例 (Center for Economic Studies and the Research Data Centers) <http://www.ces.census.gov/>
 - 専任の研究スタッフ
 - プロジェクト型の研究: 公募型, 競争型が望ましい

2. 政府統計及び統計調査に関するより高度な教育体制
 - 短期的な研修: ミシガン大学における Summer Institute in Survey Research Techniques の例 <http://www.isr.umich.edu/src/si>
 - 政府統計関係者による大学および大学院での講義 (実績あり)
 - 修士課程の開設の検討. 専門職大学院でのコースという形もあり得る.

3. 初等中等教育における政府統計の活用
 - 指導要領の改訂に伴い統計教育の充実が検討されている. 実データを用いた教育が重要
 - Royal Statistical Society, Centre for Statistical Education の例 <http://www.rsscse.org.uk/>

4. 統計に関するニーズの把握
 - ユーザーグループ Royal Statistical Society のユーザーグループの例 <http://www.rss.org.uk/main.asp?page=1612>

Research at the Center for Economic Studies and the Research Data Centers: 2006

Issued April 2007



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61st Annual

Summer Institute

in Survey Research Techniques

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Guide to Course Selection

Summer Institute courses are offered in one-, two-, four-, and eight-week formats. Participants can tailor course elections to individual time constraints and interests. One-week courses give an overview of a methodology topic, and include readings and homework. Two, four, and eight-week courses provide more in-depth coverage of a topic, include readings, homework, and examinations, and often provide participants with an opportunity to practice survey techniques.

The Summer Institute offers courses on (1) research design and sample selection, (2) measurement, (3) qualitative methods in survey research design, (4) data collection, and (5) analysis. Some courses span several areas — Introduction to Survey Research Techniques provides an overview of the entire survey process, from design through analysis. Most courses are limited to one of these five subject areas.

Background and Course Elections

Participants new to survey research or with little statistical background find Introduction to Survey Research Techniques and Analysis of Survey Data I appropriate courses. They also find Questionnaire Design and Cognition, Communication, and Survey Measurement provide helpful perspectives on the survey process. Participants with both statistical and survey backgrounds elect courses across program areas. For instance, participants interested in learning more about measurement and collection of survey data choose Data Collection Methods in Survey Research, Questionnaire Design, and Cognition, Communication, and Survey Measurement. They also find several of the one-week overview courses very useful as well. Participants with more extensive statistical backgrounds (e.g., one or two graduate courses in statistical methods) elect Analysis of Survey Data II and III and Computer Analysis of Survey Data II and III.

And participants with stronger statistical backgrounds (at least two graduate courses in statistical methods) can choose survey sampling courses (Methods of Survey Sampling and Analysis of Complex Sample Survey Data) or courses on more advanced topics in survey analysis (Event History Analysis, Multi-level Analysis of Survey Data, and Building and Testing Structural Equation Models).

The Sampling Program for Survey Statisticians

Widespread demand exists for statisticians trained in both the theory and practice of survey sampling. The scarcity is most critical in less developed countries, where social and economic surveys are needed to plan, assess, and interpret the rapid changes of developing societies. Sample surveys are used to estimate natural resources; to estimate the production and demand for goods; to assess human resources and problems; to obtain data on demography, health, and fertility; to measure community attitudes and development; and to evaluate the success of community projects and other social programs. Skilled statisticians are needed to perform key functions in applying mathematical statistics to practical social problems. Although experts from outside can and should help, the need must be met chiefly, and eventually, through proper training of local talent.

The Sampling Program for Survey Statisticians (SPSS) is offered as part of the Summer Institute. The program combines university classes with practical application in research methods. It is especially useful for statisticians studying at other universities, which have few courses during the summer. The program is designed chiefly, but not exclusively, for statisticians from less developed countries who want to aim their careers at survey sampling in their own countries. We have graduates in over 100 countries.

Survey sampling is a technical field that combines statistical theory with applications to complex practical problems. The ideal candidate holds an MA or BA degree, with high standing and special recommendations. The major field of study should have been in mathematics or statistics, perhaps combined with an applied field, such as physics, engineering, agronomy, demography, economics, or sociology. He or she works in a central statistical office, research institute, or university; has read in statistics and survey sampling; has done some practical work in statistics or survey sampling; and now wants to get advanced training that combines theory and practice. He or she is a motivated individual and is in a position to apply our sampling training to practical and important problems in his own country. The program is not designed for merely theoretical learning and academic advancement.

The SPSS is an eight-week program. It consists of three courses: a methods course, a course on the analysis of complex sample survey data, and a hands-on daily workshop. Students enrolled in these three courses are considered Fellows in the Program. The methods and the analysis courses may be taken without being a Fellow. However, the workshop cannot be taken alone. Fellows receive a certificate upon successful completion of the program.

To apply for the Sampling Program for Survey Statisticians (SPSS), please complete the SPSS application (forthcoming) and submit it with a completed Summer Institute application and your resume no later than March 14, 2008.

One- and Two-Week Programs

The Summer Institute offers a number of one- and two-week courses that appeal to those only able to spend a week or two in study. Some one-week courses are offered in "pairs", one in the morning and another in the afternoon during the same week. This scheduling allows participants to take two courses in one week of study.

The two-week courses are exclusively about qualitative data collection methods and how those methods can be best utilized in the survey process. These courses are concentrated in July, allowing participants to take four courses on these subjects in a four week period. One-week and two-week courses can be combined for a two-week program of study as well. For example, the two-week qualitative methods course, Combining Qualitative and Quantitative Methods could be combined with one-week courses offered in the same period.

For days, times, course and section numbers, see [Course Descriptions](#). Note that due to registration activities, morning courses in the first session begin on Tuesday.

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The RSS Centre occupies rooms in a modern purpose-built facility on the Nottingham Trent University's Clifton Campus.

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List of members of the RSS Centre's Steering Committee and their contact details.

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Visitors to the Centre are always welcome. Some come for quite long sabbatical periods of study. Many visitors, of course, come for much shorter periods of time, and others 'visit' only by remote access means.

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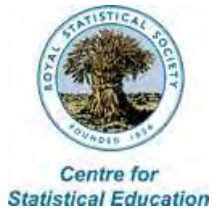


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AtSchool Projects

Based on concepts of "Real Data – Real Learning", the AtSchool projects aim to improve statistics and data handling skills amongst school children.



CensusAtSchool

The international CensusAtSchool project collects and disseminates real data for use by teachers and pupils in data-handling, ICT and across the curriculum for learning and teaching.



ExperimentsAtSchool

ExperimentsAtSchool allows pupils to collect and analyse experimental data to draw practical conclusions in subjects including science, geography and psychology.



SurveyAtSchool

Complementing CensusAtSchool by completing the handling data cycle, SurveyAtSchool allows pupils to create their own online surveys and investigate the collected data.



IssuesAtSchool

IssuesAtSchool is being piloted during the academic year 2004/5 by 12 specialist schools. The project focuses on biomedical issues, (often controversial) and are developed through class activities and debate followed by individual opinion.



RowingAtSchool

Staff at the RSSCSE are working with colleagues at Concept2 in order to collect real data from schools and school-age learners that use its rowing machine.

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▶ [Output Area Classification User Group](#)

▶ [National Accounts User Group](#)

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▶ [Transport Statistics User Group](#)

Co-opted groups

▶ [Market Research Society](#) (main site); [Geodemographics Knowledge Base](#) (their portal to source census and other information)

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