Instructional Support Resources

Here you will find the resources we think are helpful in using data in instruction, in identifying publicly available datasets to use in teaching, and links to sources in statistical literacy and definitions of statistical terms and techniques.

Teaching Resources

ARTIST is designed to "to help teachers assess statistical literacy, statistical reasoning, and statistical thinking in first courses of statistics. This site can be useful in any research methods course where data and statistical concepts will be introduced

CAIS is an on-line, free textbook on statistics with some interactive features. The Concepts and Applications of Inferential Statistics is created and maintained by Richard Lowry, Professor of Psychology at Vassar College.

CAUSEWeb contains resources for members of the undergraduate statistics education community.

DITC Data in the Classroom was developed and is maintained by the Department of Sociology at UCLA. "It is designed to help sociologists enrich their teaching through the use of data in the classroom."

Digital Research Tools "This wiki collects information about tools and resources that can help scholars (particularly in the humanities and social sciences) conduct research more efficiently or creatively. Whether you need software to help you manage citations, author a multimedia work, or analyze texts, Digital Research Tools will help you find what you're looking for. We provide a directory of tools organized by research activity, as well as reviews of select tools in which we not only describe the tool's features, but also explore how it might be employed most effectively by researchers." *(from the DRT website)*

Economics Network Based in the UK, this site contains over 600 sources of online learning and teaching materials, an assessment bank of over 1300 essay questions and problem sets, and links to online economic datasets that are freely available.

Everyday Sociology "The Everyday Sociology weblog is edited by sociologist Karen Sternheimer, and her contributors include a wide range of practicing sociologists. Visitors to the site can scroll through recent entries and also browse several categories, which include crime and deviance, sex and gender, social psychology, and popular culture and consumption. Also, users may wish to look through the archives, which date back to June 2007. Along with being eminently readable, the site also includes teaching activities and video interviews." (*from the Scout Report - March 14, 2008)*

ICPSR Instructional Resources are modules for using ICPSR resources in teaching.

Merlot Statistics Portal: Teaching "features hands-on sessions and interactive demonstrations of current methods of teaching statistics."

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NICHE The Numeracy Infusion Course for Higher Education, hosted by the CUNY Quantitative Reasoning Alliance, “provides a repository of resources and information for faculty from across the disciplines who are seeking to infuse numeracy into their course instruction.”

Probability and Statistics Laboratory is a project developed by Kyle Siegrist and the site " provides free, high quality, interactive, web-based resources for students and teachers of probability and statistics. It consists of an integrated set of components that includes expository text, applets, data sets, biographical sketches, and an object library."

ProjectTIER developed by Richard Ball at Haverford College is “a protocol for comprehensively documenting all the steps of data management and analysis that go into an empirical research paper. We teach this protocol every semester to undergraduates writing research papers in our introductory statistics classes, and students writing empirical senior theses use our protocol to document their work with statistical data. The protocol specifies a set of electronic files—including data files, computer command files, and metadata—that students assemble as they conduct their research, and then submit along with their papers or theses. “

Rice Virtual Lab in Statistics hosts "HyperStat Online, Java applets that demonstrate various statistical concepts, examples of real data with analyses and interpretation, and some basic statistical analysis tools."

SDA is a set of programs for the documentation and Web-based analysis of survey data. UCLA maintains a federated site license for SDA. The UCLA Social Science Data Archive assists faculty who would like to use on-line data analysis in courses.

SSDAN contains datasets and teaching exercises based on the United States Census. The Social Science Data Analysis Network is a university-based organization that creates user quides, web sites, and hands-on classroom computer materials.

StatSoft is an on-line textbook for teaching general statistical concepts. Use the search engine to find specific topics or browse the table of contents.

SurfStat is an online textbook for teaching statistics hosted at Australian National University.

Teaching Resources Depository was created by the California State University and contains teaching modules and exercises, materials for developing information competence and critical thinking, course syllabi and links to other teaching tools.

Teaching with Data "This portal provides access to resources to help faculty incorporate quantitative literacy into social science classes."

Teaching with the Census is a resource best used with lower division undergraduates. This site contains four lesson plans and handouts for reading and writing about tables produced with U.S. Census data, performing simple calculations and creating maps.

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Instructional Datasets

DASL is the Data and Story Library of materials that can be used to illustrate the use of basic statistics methods. Use DASL's search engine to locate a wide variety of topics from real-world examples.

StatLib is maintained at Carnegie Mellon University. The alphabetical list of datasets from published and unpublished sources is one of the original sites of this type.

STATA programs for teaching at UCLA covers univariate distributions, probability simulation, statistical distributions, regression and other techniques.

Time series data is a collection of about 800 time series drawn from many different fields including, agriculture, crime, demography, health, labor market and sports. It is compiled and maintained by Rob Hyndman.

Statistical Support

IDRE provides statistical consulting at UCLA for the use of many different software packages including SPSS, SAS, STATA

Chance is a quantitative literacy course. The goal of Chance is to make students more informed, critical readers of current news stories that use probability and statistics.

GASP is an initiative designed to make statistical routines easily available via the Internet. The site contains lists of java applets for data analysis. The educational procedures are all written in Java and feature interactive graphics.

JSE is an archive of statistical data supplied by the Journal of Statistics Education. JSE disseminates knowledge for the improvement of statistics education at all levels.

Statistics Internet Library is probably more useful to students than faculty and has many tutorials, study aids, examples, practice problems as well as low cost live online tutors.

Software Resources

SAS at UCLA is an online resource with tutorials, classes, examples, and links to online documentation.

SAS OnDemand for Academics " allows students to download SAS on their own computers, and perform statistical analysis at their own convenience. Users register for the service, download a SAS software application via the Web, and then perform processing by connecting to a hosted server at SAS. Instructors connect to a secure Web site to register, create or update courses and download course software for free.

Students then register and download software for the created course. By secure credit card transaction, students pay a per-course fee that is approximately the price of a textbook. "

SPSS at UCLA is supported by a number of classes, online tutorials, analysis examples, and data management.

STATA at UCLA provides support to researchers with online learning modules, classes, and a special section for instructors.

SSI is a company that creates software for statistical analysis. it is included here because the web site provides free downloads of software for LISREL, Hierarchical Linear Modeling (HLM) and Item response Theory (IRT).