

Explorations in Statistics Research: An *Undergraduate* Summer Program

June 16-24, 2012

University of California, Berkeley

Applications due: March 14, 2012

**Applications and reference forms
available at:**

<http://exploring-stat-research.org>

Organizers: Mark Hansen, UCLA; Deborah
Nolan, UC Berkeley; Duncan Temple Lang, UC Davis

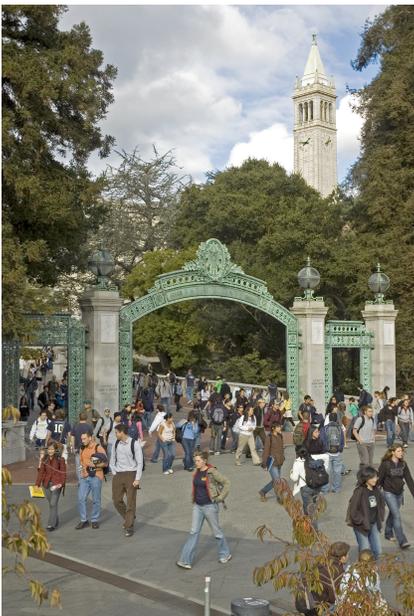


photo by Steve McConnell

Today, almost every aspect of our lives is “rendered” in data that increasingly tend to be massive in size, dynamic in character, and replete with rich structures. The advent of these enormous repositories of information presents us with an interesting challenge: how can we represent and interpret such complex, abstract and often socially important data?



photo by Gordon Mei

The Explorations in Statistics Research workshop is designed to introduce undergraduates to the exciting work being done in statistics – the science of data.

Over the seven-day program, we will explore scientific questions using statistical approaches ranging from simple summaries to more sophisticated modeling approaches. We will use the computer to explore relevant data to better understand and discover the underlying scientific features. The topics may include:

- Health statistics
- Earth and space science
- Text and document analysis

Through computer labs that draw on each day’s application, students will receive a basic introduction to statistical computing, providing them with the skills to perform fundamental data manipulations, conduct exploratory analyses and create informative visualizations.

Contact:

exploring.stat.research@gmail.com for more information about the program.



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