



The American Statistical Association

San Francisco Bay Area Chapter

Since 1928

May 1998

Joint Biostatistics and General Applications Program

"How Much Data Do You (Really) Need"

William G. Haag
Haag Consulting

Abstract

When we make decisions based on data, we are often making a statement about comparisons. "Is Treatment A sufficiently different from Treatment B to be of commercial interest?" There are two obvious positions one might take depending on the outcome of one's laboratory effort. We might declare that "Yes, there is an important difference," or "No, there is not sufficient difference to be important."

Thus, there are two ways to get it wrong. We can declare that one system is better than the other, when we have actually mistaken the background noise for an interesting signal. We call this a "False Positive." On the other hand, we may declare that there is nothing interesting in the difference, when there is, in fact, a difference that might be important to know about. Similarly, this is called a "False Negative." This situation puts the scientist and his or her business patrons at risk of drawing the wrong conclusion and expending R&D resources in pursuit of fallacious hypotheses.

Business and scientific strategies to minimize both false positives and false negatives are the subject of this seminar.

Date: Monday, May 11, 1998

Time: 3:30 - 4:00 PM Refreshments
4:00 - 5:00 PM Talk

Place: California State University, Hayward, CA, Room North Sciences 207

Dinner for the speaker will follow at 6 PM

Directions: California State University, Hayward is located off of Mission Boulevard in Hayward. Please refer to enclosed campus map. Visitor parking is available in lots C, J, K, and P but bring plenty of quarters for meters or day permit dispensers. BART shuttle is also available from the Hayward station.

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SAS Programmer Medical Research Laboratories Brussels, Belgium

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system and the management of clinical trials data for our clients. Live and travel in Europe while working for a growing, dynamic company.

Individual must be highly motivated with strong programming and organizational skills and be able to work independently and show initiative. Candidates should have a Bachelors or Masters degree and extensive experience with the SAS system including the SAS application development products - SAS AF, SAS SCL, SAS FSP, and SAS FRAME. Knowledge of C or UNIX and experience with clinical data is also desirable.

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of statistical methodology in clinical trials.

Principal or Sr. Statistician: Serve as core project team member to coordinate and manage all statistical activities on a project. Provide statistical input for protocol and CRF development and prepare RAP's, key portions of integrated clinical/ statistical reports, and key sections of ISS and ISE. Provide technical solutions to a wide range of statistical problems. MS in Statistics, Ph.D. preferred, with a minimum 3 years in pharmaceutical or related setting. Computer proficiency in SAS programming.

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Research Assistant: Write, modify, validate, and implement project work in SAS. Provide support to data management including database development, data cleaning and diagnostic development. Program for ad hoc tables and listings. Program tables for DSMB review and periodic interim analyses. Write, modify, and maintain programs which produce diagnostics for data review. Write, modify and maintain programs which produce data listings, summary tables, and graphs as specified in Report and Analysis Plans. Prefer BS in computer science, statistics or related field. Prefer UNIX experience. Solid understanding of Base SAS and SAS/STAT.

Hayward Campus Map

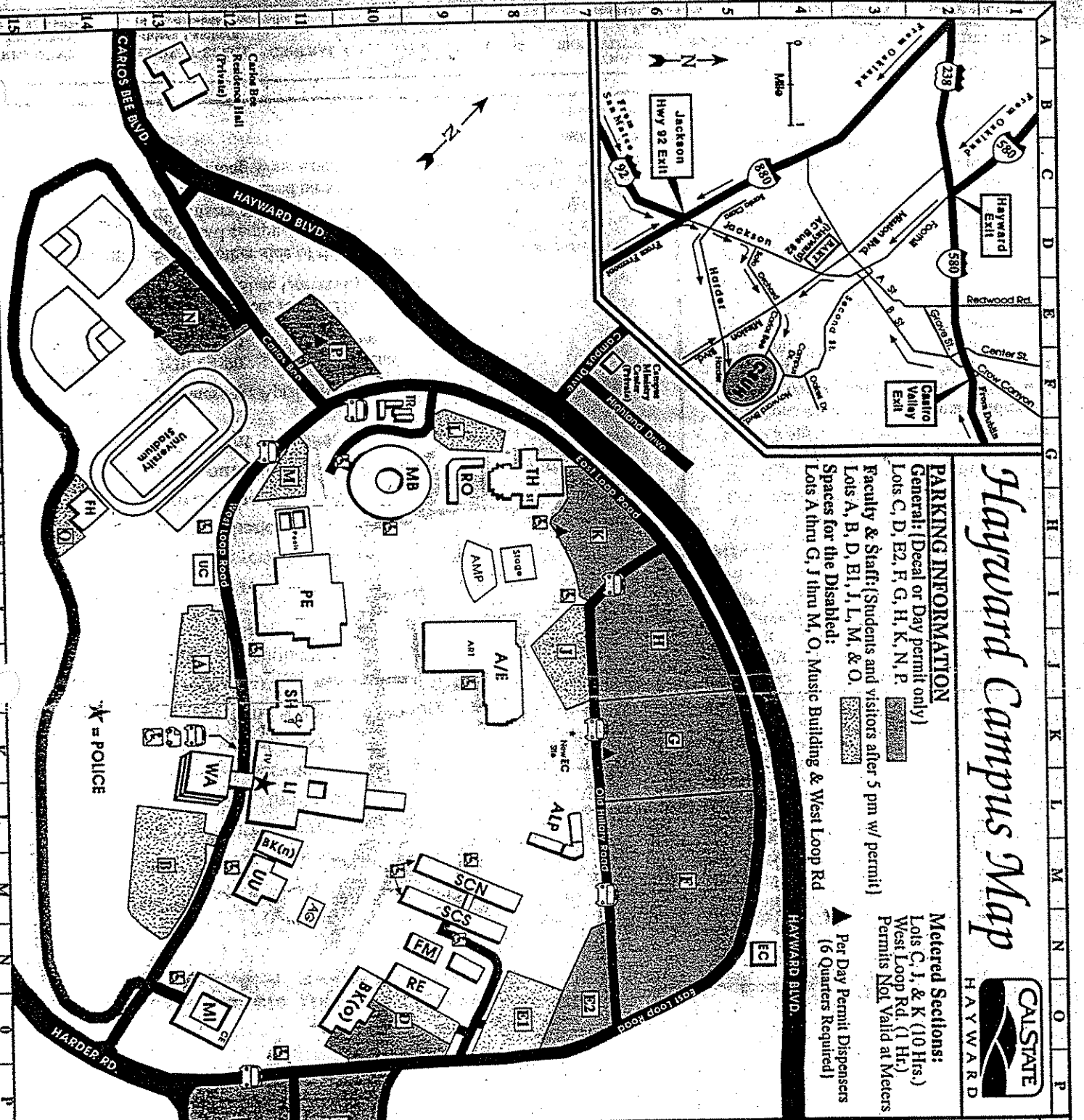


PARKING INFORMATION

General: (Deal or Day permit only)
 Lots C, D, E2, F, G, H, K, N, P
 Faculty & Staff: (Students and visitors after 5 pm w/ permit)
 Lots A, B, D, E1, J, L, M, & O
 Spaces for the Disabled:
 Lots A thru G, J thru M, O, Music Building & West Loop Rd

Metered Sections:
 Lots C, J, & K (10 Hrs.)
 West Loop Rd. (1 Hr.)
 Permits Not Valid at Meters

Per Day Permit Dispensers
 (6 Quarters Required)



CAMPUS LOCATIONS

AG	Agora	M11
ALP	Amer. Lang. Program	M7
AMP	Amphitheatre	19
A/E	Art / Education	J/K 9
ART	Art Gallery	J 9
BK(n)	Bookstore (New)	M12
BK(O)	Bookstore (Old)	O10
CB	Carlos Bee Hall	B13
CE	C.E. Smith Museum	O12
EC	Early Childhood Center	N4
FH	Field House	H14
FM	Facilities Mgmt.	N9
LI	Library	L11
MB	Music & Business	G10
MI	Melkajohn Hall	O12
PE	Physical Education	111
PH	Pioneer Heights	R/S11
RE	Receiving	N9
RO	Robinson Hall	G9
SCN	Science (North)	M9
SCS	Science (South)	N9
SH	Student Health	K11
ST	Studio Theatre	H8
TH	Theatre	G8
TR	Trellers (MB)	F10
TV	T.V. Studio	K12
UC	University Club	112
UU	University Union	M12
WA	Warren Hall/Admin	L12

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★ = POLICE

Map Designed By:
 Dr. David Wood
 w/ Robert Aldenhuisen
 Dept. Geography & Env't. Stu.
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650-960-4941 (direct line)
at
Storm Technology, Inc.
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Mountain View, CA 94043

Newsletter Submissions

The chapter newsletter runs employment ads free of charge as a service to its subscribers. Other advertisements are placed in the newsletter for a nominal charge to cover the additional copying and postage costs.

Other submissions (anecdotes, public seminar notices, jokes, etc.) are also placed free of charge. Any contributions are welcome. Send them to Ann Kalinowski, Failure Analysis Associates, 149 Commonwealth Dr., Menlo Park, CA 94025.
Phone: (650) 688-7203, fax: (650) 238-2988, e-mail: sfamk@exponent.com

Seeing *****'s???????

If you see *****'s next to your name on the mailing label, that means that according to our records, you have not paid dues since April 1997. We will drop your name from our mailing list after the last newsletter this academic year if we have not received your dues by July 1, 1998.

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For one newsletter insertion 250 words or less and 2 months on chapter Web page *per job description*:

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To place an ad, please contact the chapter secretary, Ann Kalinowski, at phone (650)688-7203, fax (650)328-2988 or e-mail sfamk@exponent.com.

Remember to sign up for the Wavelets Short Course sponsored by your chapter on June 1, 1998 at the Garden Court Hotel in downtown PaloAlto.

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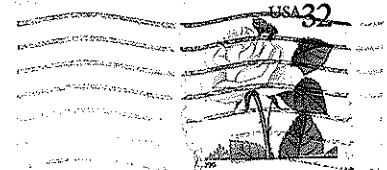


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