



The American Statistical Association

San Francisco Bay Area Chapter

Since 1928

January/February, 1997

Joint Biostatistics and General Applications Program

"Pharmacodynamic Analysis of Analgesic Clinical Trials: Statistical Solution"

Chui Yu Liu

Data Analysis Division

*Department of Biopharmaceutical Sciences
University of California, San Francisco*

Abstract

In the development of an analgesic product, placebo-controlled clinical trials in patients with defined pain are used to study the effect-dose-time relationship of the product. In such a trial, the response is usually an ordered categorical variable. The primary causal variables are time and analgesic concentration. The data are longitudinal and subject-specific with repeated measurement. During a treatment, if a subject has inadequate pain relief, he/she is remedicated with a known analgesic, and thus the responses may be right-hand censored. Logistic mixed effects models have been proposed to estimate the probability of having a certain category of response. If the baseline pain severity is of interest, conditional probabilities are also estimable. The response profiles of the subjects and the concentration-time information enable investigators to estimate missing responses. Posterior inference has been employed to validate the proposed method. Two examples are given to demonstrate the approach.

Date: Thursday, February 6, 1997

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

Place: Chiron Corporation, 4560 Horton St., Emeryville

Dinner for the speaker will follow at 6 PM

Directions: Refer to enclosed map.

OPEN POSITIONS:

Senior Biostatistician

Clinical Company, Southern California

The minimum qualifications for this position are a M.S. in Biostatistics or a related field, or the equivalent combination of education and experience. The applicant will typically have five years of biostat/statistical clinical experience in the biotech/pharmaceutical industry. The applicant must have good organization and planning skills. Good communication skills. Ability to effectively document activities and communications. Advanced understanding of clinical research methodology. FDA experience with good knowledge of FDA regulations. Experience with SAS, Windows and relational databases. Ability to accomplish tasks independently. Independent contribution to clinical study design and development.

If you are interested in this opportunity, please mail or Fax your CV/resume or contact: Anna Floyd; The Chase Group; Phone: 913-663-3100;

FAX: 913-663-3131;

e-mail: anna@chasegroup.com.

M.S. Biostatistician

Environmental Risk Analysis, San Mateo

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SECRETARY
Ann Kalinowski
(415) 688-7203
sfamk@ail.com

are Fortune 500 companies and law firms. The position is located at our San Mateo office. We are seeking an individual with a Masters degree in Biostatistics or Statistics with courses or experience in environmental epidemiology.

Responsibilities of the position include:

- Performing statistical analyses using statistical software packages, primarily SAS;
- Performing critical reviews of health and medical literature related to epidemiology and environmental health;
- Assist in conducting quantitative health risk and statistical analyses;
- Writing computer code to perform specialized statistical analyses (SAS Macros, FORTRAN, S-Plus).

The ideal candidate will have course work or experience in linear models, categorical data analysis, survival analysis, epidemiologic methods, survey sampling, multivariate analysis and occupational and environmental health and epidemiology. Experience with IBM compatible PCs and using SAS on PCs is required. Experience with one programming language (FORTRAN, S-Plus) is desired. Good oral and written communication skills are necessary.

For confidential consideration please send a resume to:

William Butler, Ph.D.

Environmental Risk Analysis, Inc.

1670 Amphlett Blvd., Suite #115

San Mateo, CA 94402-2512

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Ph.D. Biostatistician

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FAX: 415-655-7281

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new medical technologies and health conditions.

We seek 1-2 individuals with 5 years of experience performing data analysis in a research environment. The ideal candidate has a MS or Ph.D. in statistics, 5 to 10 yrs of experience performing statistical analysis using SAS software and 2 to 3 years of experience supervising SAS data analysts. This position requires a thorough understanding of SAS data step programming and statistical analysis procedures, especially linear models. Experience analyzing survey data, processing medical claims data, and working with large data sets are desirable. Excellent written and verbal communication skills and an ability to explain sophisticated statistical methods to non-specialists is essential.

Please supply salary requirements. TAG offers competitive salaries & benefits.

Please send resume and cover letter to:

Technology Assessment Group

490 Second Street

Suite 201

San Francisco, CA 94107

Fax: 415/904-4158

e-mail: ceubanks@tagsf.com .

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Statistical Research Consultant Kaiser Permanente, Oakland

The Special Studies department of Kaiser Permanente's Program Offices is seeking a statistical research consultant. This FTE position requires at least a Master's degree with an emphasis on quantitative studies and three or more years of research, preferably in health care.

Applicants must demonstrate knowledge of multivariate and distributional statistical methods, proficiency in SAS programming and familiarity with technical consulting. Studies apply epidemiologic and statistical methods to analyses of large, complex computerized data sets. Current topics include assessment of health outcomes,

Senior Statistical Analyst Technology Assessment Group, San Francisco

Technology Assessment Group (TAG) is a San Francisco-based international health care research and consulting firm with special expertise in the evaluation of economic and quality-of-life impacts of

development of risk adjustment techniques and analysis of health services utilization.

Send CV to:

Director of Special Studies
Kaiser Permanente
One Kaiser Plaza
Oakland CA 94612

Fax: 510-271-5815.

Master's Level Statistician

Financial Proformas, Inc.

Walnut Creek

Master's level professional statistician, ideally with experience in building credit scoring models, to serve as a deputy statistician in a multi-year project for a Bay Area financial analysis software and credit training company. Please send information to:

Financial Proformas, Inc.
1350 Treat Boulevard
Suite 400
Walnut Creek, California 94596
Attention: Rex Beach

Sr. Statistical Programmer Analyst

Corning Besselaar

Key Responsibilities

- Perform as a key resource in a technical area or in project management
- Analyze and improve departmental processes
- Perform as a key SAS programmer for development and projection projects.
- Review and interpret Report and Analysis Plans for assigned projects.
- Lead programming efforts for (CA)NDS/(CA)PLA preparation.
- Review draft and final production runs for any project.

- Complete assigned tasks in an accurate and timely manner, while following Statistical Programming Standard Operating Procedures.

- Assist with interviewing potential candidates.

- Assist with time and cost modifications on assigned projects and estimates on proposals.

- Perform other duties as assigned by management.

Qualifications

Education

B.S. or equivalent in computer science or related field.

Experience

Required

- Minimum 5 years.

- Expert understanding of SAS.

- Minimum 5 years of complex SAS programming experience.

Preferred

- Thorough understanding of Besselaar Statistical Programming procedures.
- Two years programming experience at Corning Besselaar.

Special Skills

Required

- Excellent written and oral communication skills.
- Good understanding of overall clinical research development process.
- Project management or system development experience is beneficial.
- Interact with Project Core Team Members.
- Assign and monitor work of the programming team working on assigned projects.
- Client contact on project specific and technical issues.
- Overtime required occasionally.
- Attend client meetings to discuss project related issues.
- Possible travel for client meetings.

- Flexibility to modify plans and resources to meet Project Team and client goals.

- Ability to plan and organize work of a programming team.

- Ability to make decisions to accomplish team goals.

If you are interested, please submit your resume to:

Human Resources Manager

Corning Besselaar, Inc.

200 Pringle Ave., Ste. 555

Walnut Creek, CA 94596

Fax: (510)974-3703

Senior Project Statistician

Corning Besselaar

Walnut Creek

Key Responsibilities

- Serve as core project team member to coordinate and manage all statistical activities on a project and provide statistical liaison with client.
- May serve as project director.
- Provide statistical input for protocol and CRF development.
- Prepare RAPs (detailed specifications for the format and content of clinical trial reports, including table of contents, description of study design, definition of efficacy and safety variables, data handling conventions, methods of statistical analysis, programming rules, mock-ups for tables and listings).
- Provide direction to programmers and data associates during production and review of computer generated tables and listings for CTR.
- Review computer-generated tables to verify accuracy.
- Prepare key portions of integrated clinical/statistical report, including sections related to data handling and statistical methodology, patient accountability, baseline compatibility and efficacy results.

- Prepare key sections of the ISS and ISE, including those related to data-handling and statistical methodology, patient accountability, baseline compatibility and efficacy results.
- Perform other duties as assigned by management.

Qualifications

Educational

Required

M.S. in Statistics

Preferred

Ph.D. in Statistics

Experience

Required

Minimum 2 years as Statistician

Preferred

Minimum 3 years as Statistician in Pharmaceutical Setting.

Special Skills

- Good written and oral communications skills.
- Computer proficiency in Word Processing and SAS programming.

If you are interested, please submit your resume to:

Human Resources Manager

Corning Besselaar, Inc.

200 Pringle Ave., Ste. 555

Walnut Creek, CA 94596

Fax: (510)974-3703

- Mentor, train and supervise staff performing data management and data entry.
- Manage data clean-up process.
- Perform other duties as assigned by management.

Qualifications

Educational

Required

BA/BS

Experience

Required

Minimum 4 years increasing responsibility in data management of clinical trials.

Special Skills

Required

- Computer literacy.
- Good verbal and oral communication skills.
- Ability to work independently
- Time Management.
- Ability to supervise staff.

If you are interested, please submit your resume to:

Human Resources Manager

Corning Besselaar, Inc.

200 Pringle Ave., Ste. 555

Walnut Creek, CA 94596

Fax: (510)974-3703

- Modify and maintain programs and writing simple SAS code with programming team support to produce data listings, summary tables, and graphs as specified in the Report and Analysis Plans.
- Create programs for routine data transfers.
- Assist with programming for tables for DSMB review and periodic interim analyses.
- Completing assigned tasks in an accurate and timely manner, while following Statistical Programming Standard Operating Procedures.
- Perform other duties as assigned by management.

Qualifications

Educational

Required

A.A.S.

Preferred

B.S. preferred in computer science or related field.

Special Skills

Required

- Good programming skills.
- Basic understanding of Base SAS
- Ability to make use of and modify existing SAS code.
- Interact with other programmers and Statistical Programming project managers.
- Discuss requests with statisticians, project associates, and data associates.
- Overtime required occasionally.
- Ability to communicate effectively verbally.
- Ability to follow directions.
- Ability and desire to quickly learn new job-related information and to increase independence.
- Willing to modify plans and behavior when necessary to meet a goal.
- Ability to shift priorities according to project tasks and requirements.

Statistical Programmer

Corning Besselaar

Walnut Creek

Key Responsibilities

- Modify, validate, and implement project work in SAS primarily utilizing existing code.
- Supervision is expected.
- Assemble and validate production table runs.
- Modify and maintain existing programs and writing new SAS code to produce diagnostics for data review.

Senior Data Associate

Corning Besselaar

Walnut Creek

Key Responsibilities

- Key project team member with responsibility for maintenance of clinical database
- Data Associate's responsibilities, plus the following:
 - Develop time and cost estimates
 - Participate in proposal activities and client presentations.
 - Participate in development of Case Report Forms.

Preferred

- Exposure to SAS/STAT and macro language.

If you are interested, please submit your resume to:

Human Resources Manager
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Bank of America

San Francisco

Bank of America is seeking statisticians for its retail banking marketing group in San Francisco. You will be responsible for the development and implementation of statistical models to improve sales and marketing programs in retail banking. The statistical models you will develop will predict attrition, product and response propensity to specific products and promotions using current customer data.

The ideal candidate will have a MS in Statistics plus at least 2 years related business experience. Expert with SAS and experience using large data sets. SQL a plus. Strong project management and communication skills are essential.

E-mail your resume to:
Henry.Bennett@Bankamerica.com

or mail your resume to:

Henry Bennett
San Francisco Recruiting Resources
#13608
SFASA-HB8444
P.O. Box 37000
San Francisco, CA 94137.

Senior Statistician

Financial Proformas Inc.

Walnut Creek

Financial Proformas Inc. was founded in 1981 and currently has a full-time employed staff of approximately 70. FPI is the market leader in providing P.C. and server based software work tools to commercial bank lenders to assist them in evaluating and processing commercial loan trans-actions. The Company's principal software products are installed in more than

50 of the top 100 banks in the U.S. and a total of more than 2000 institutions world-wide. Staffed by bankers, financial specialists, software development professionals and training experts, FPI uses proven expertise in applying the science of computing technology and credit management to the art of risk assessment and management of the commercial lending process. FPI sells its software products and education services directly to its user-clients through a network of full-time sales people resident throughout the U.S. as well as in Canada, Australia, and the U.K. FPI is available in English, French Canadian, Spanish Danish, German and Dutch. Credit educational materials are available using U.S., Canadian, Australian, and U.K. terminologies and formats.

The Senior Statistician will assume immediate managerial responsibility for a body of on-going developmental work in building and testing large scale computer based models which provide predictive outcome estimates based on large samples (60,000) of commercial loan and related financial data. The end product of the work can be viewed as the commercial loan equivalent of consumer loan credit scoring technology. Clients of the Company will use the results of this work to improve their ability to assess individual, and consequently, loan portfolio risk levels, shifts in those levels and as an input to adjusting loan policy.

Success in this position requires substantial knowledge and proven skills in a wide range of disciplines, including

- Demonstrated successes in building/utilizing statistical models to predict likely outcomes.
- Knowledge of commercial financial analysis; experience in commercial loan processing systems would be a significant plus

Biostatistician

SEQUUS

Menlo Park

SEQUUS Pharmaceuticals, Inc. is a leader in the development, manufacture, and commercialization of liposomal drugs and lipid-based biopharmaceutical products primarily to treat cancer and infectious diseases. Proud to be among the 2 percent of biotech companies formed in the last 20 years with approved products on the U.S. market, we are building our talented team for further success.

The successful candidate should have a Ph.D. or M.S. in Biostatistics or Statistics with substantial experience in protocol development, analysis, conduct of multi-center clinical trials (experience in cancer clinical trials is a plus), and experience in NDA submissions. Knowledge of FDA regulations and regulatory submission process is required. Excellent communication, organizational, planning and documentation skills are essential. Broad knowledge of statistical methods for the analysis of clinical trials (Phase I through IV) is required.

To achieve SEQUUS's mission of improving patients' lives, we are building teams and empowering the best talent in our industry, providing a productive professional environment, and rewarding performance linked to the achievement of goals. Please send your resume to:

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Menlo Park, CA 94025
fax (415)453-3124.

Ph.D. or MA degrees in mathematics, statistics, or operations research.

If you have interest, please Fax your resume and any other pertinent information to:

Paul Erickson
Strategic Consulting Services
Fax:(415)435-0376.

Chapter Announcement

The San Francisco Chapter of the American Statistical Association has begun sponsoring an electronic mailing list to disseminate meeting notices, job openings, and other announcements of interest to chapter members.

To subscribe to the list, send an e-mail message to

sfasa-request@lists.best.com

The body of the message should contain only one line:

subscribe

On receipt of your message, the mailing list manager will add your return address to the subscription list. If you would like to add an address other than your return address, or if you want to subscribe a third party to the list, then an optional e-mail address should be appended to the message, for example, *subscribe myname@aol.com*

Chapter members are also encouraged to contribute their own communications for distribution to other list subscribers. Subscribers can post announcements simply by sending them to **sfasa@lists.best.com**

The list is moderated meaning that messages are reviewed by a Chapter officer before being posted. There are no firm restrictions on content other than that electronic junk mail or "spam" is prohibited and will not be posted.

To remove your name from the mailing list after you've subscribed, send a message to

sfasa-request@lists.best.com

containing the one-word, one-line message:

unsubscribe

An optional e-mail address can be added after the keyword "unsubscribe" to remove a third party from the list. To obtain an automatically generated help file, send a message to **sfasa-request@lists.best.com**

*containing the single keyword "help," or for a personal response, write to **sfasa-owner@lists.best.com***

Moving? Make sure we have your current address!

Each month we receive several newsletter returns because the post office time limit for forwarding mail has lapsed. Sometimes the forwarding address is included by the post office, but sometimes it is not.

Please make sure you don't miss a newsletter. Contact Ann Kalinowski, the chapter secretary, with your new address. Phone (415)688-7203, or e-mail **sfamk@fail.com**.

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: (415) 688-7203, fax: (415) 238-2988, e-mail: **sfamk@fail.com**.

Directions to Chiron:

From SFO/Peninsula:

Take the Bay Bridge to 80N towards Berkeley. When on 80, immediately move to the right and exit on **Powell**.

Turn **RIGHT** at the bottom of the offramp (signal). Go through the next signal (on Christie), over the Amtrack bridge and turn **RIGHT** at the next signal (Hollis). Proceed to 53rd street (next signal intersection) and turn **RIGHT**. Go 1/2 block down and turn **LEFT** into the Chiron parking lot. Enter through the glass front that looks somewhat like a wine barrel. The conference room is immediately inside on the right. The receptionist can direct you.

From Berkeley:

Take University west to the bay frontage road (just past (and parallel to) 180. Turn **LEFT** and go to **Powell**. Turn **LEFT** onto Powell and follow directions from SFO above.

From East Bay: Take appropriate freeway (24W to 580 to 80N or 880 to 580 to 80N) to arrive at **Powell** offramp on 80N and follow directions from SFO above.

Note: When you arrive at Chiron, it is likely that the parking lot will be full owing to ongoing construction. If this is the case, you should either a) park on Hollis or b) park in the lot located just off of Hollis and Powell. It is suggested that you plan to arrive early in anticipation of parking difficulties.

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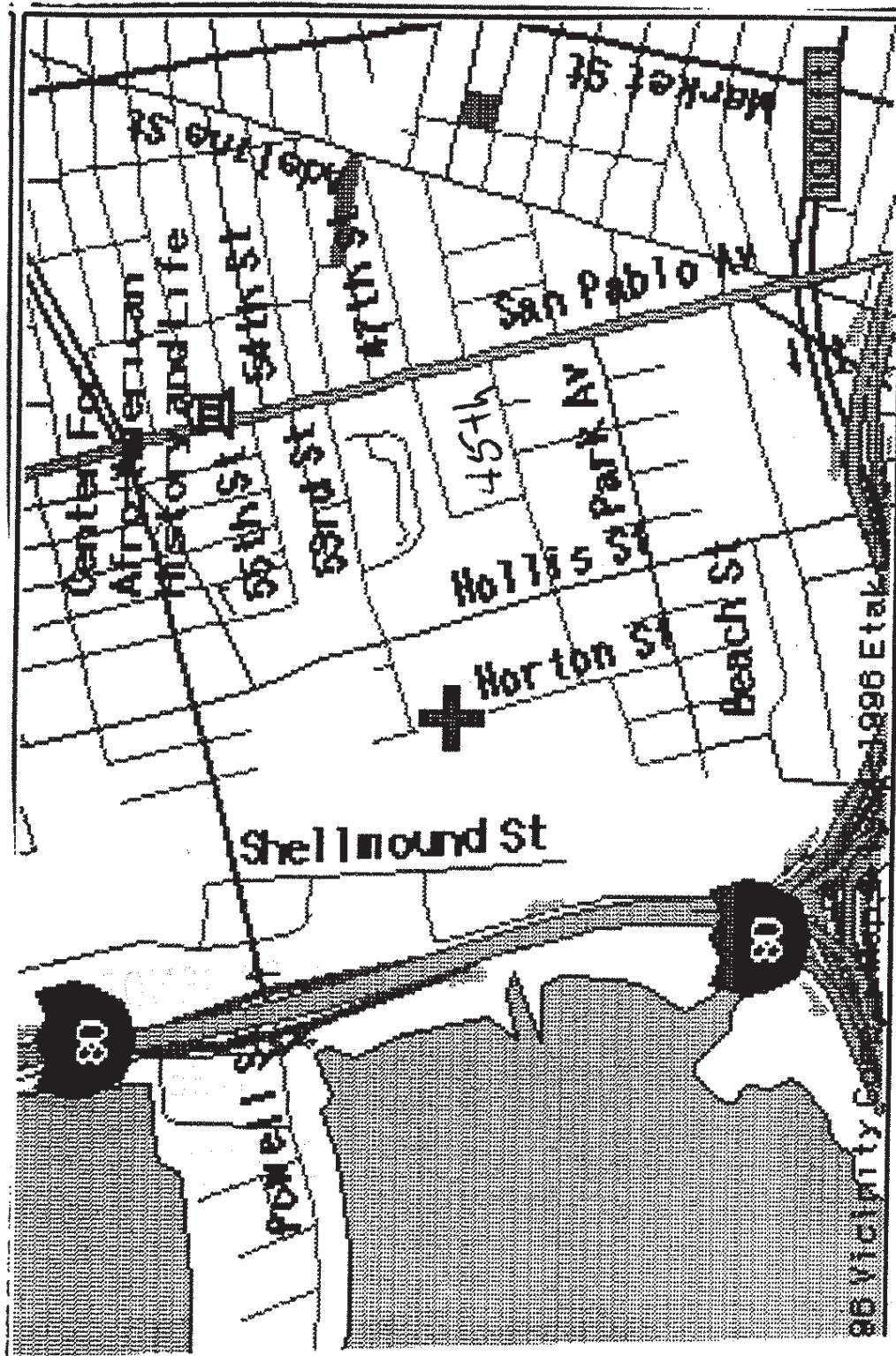
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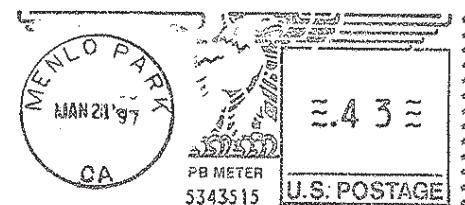


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The American Statistical Association

San Francisco Bay Area Chapter

Since 1928

March 1997

Joint Biostatistics and General Applications Program

"Pharmacodynamic Analysis of Analgesic Clinical Trials: Statistical Solution"

Jun Liu

*Department of Statistics
Stanford University
Stanford, CA 94305*

Abstract

The biotechnology revolution stems from rapid advances in the biological sciences. One important product of these advances is a large and rapidly growing data base of biopolymer (DNA, RNA, and protein) sequences. Much attention of researchers in many different fields has been attracted, and numerous techniques for the analysis of these sequences have been generated. The great majority of these techniques have been designed to analyze a single sequence or for the comparison of a pair of sequences. Multiple sequence analysis has remained a difficult challenge. In recent years, statistical models have advanced one important problem in multiple sequence analysis, e.g., multiple sequence alignment. Here we describe several such models with Markovian structures and discuss their relationships and applications. Models for the detection of subtle relationships among DNA or protein sequences are illustrated with examples.

Date: Thursday, March 13, 1997

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

Place: Failure Analysis Associates, Room 3100
149 Commonwealth Dr., Menlo Park CA 94025

Dinner for the speaker will follow at 6 PM

Directions: From the Peninsula, Failure Analysis Associates may be reached via the Marsh Road (east) exit off Rte. 101 in Menlo Park. From the East Bay, use either the Bay or San Mateo Bridge to get to 101 south, or use the Dumbarton Bridge to Bayfront Expressway and exit Bayfront at Chrysler Dr. Refer to enclosed map.

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PRESIDENT
Kathleen Lamborn
(415) 476-8863

lambornk@neuro.ucsf.edu

PRESIDENT-ELECT
Michael Lock
(408) 954-2583

Michael_Lock@bdis.com

**VICE-PRESIDENT
GENERAL APPLICATIONS**
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(415) 622-0408
ding@crl.com

**VICE-PRESIDENT
BIOSTATISTICAL PROGRAMS**
Ying Lu
(415) 502-4596
ying_lu@rad-mac1.ucsf.edu

TREASURER
Jim Lenihan
(415) 742-0131
jim@sfasa.org

SECRETARY
Ann Kalinowski
(415) 688-7203
sfamk@fail.com

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B.S. or equivalent in computer science or related field.

Experience

Required

- Minimum 5 years.
- Expert understanding of SAS.
- Minimum 5 years of complex SAS programming experience.

Preferred

- Thorough understanding of Besselaar Statistical Programming procedures.
- Two years' programming experience at Corning Besselaar.

Special Skills

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- Interact with Project Core Team Members.
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Ph.D. Biostatistician

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Corning Besselaar

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200 Pringle Ave., Ste. 555
Walnut Creek, CA 94596
Fax: (510)974-3703

Senior Project Statistician
Corning Besselaar
Walnut Creek
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- May serve as project director.
- Provide statistical input for protocol and CRF development.
- Prepare RAPs (detailed specifications for the format and content of clinical trial reports, including table of contents, description of study design, definition of efficacy and safety variables, data handling conventions, methods of statistical analysis, programming rules, mock-ups for tables and listings).
- Provide direction to programmers and data associates during production and review of computer generated tables and listings for CTR.
- Review computer-generated tables to verify accuracy.
- Prepare key portions of integrated clinical/statistical report, including sections related to data handling and statistical methodology, patient accountability, baseline compatibility and efficacy results.
- Prepare key sections of the ISS and ISE, including those related to data handling and statistical methodology, patient accountability, baseline compatibility and efficacy results.
- Perform other duties as assigned by management.

Qualifications
Educational
Required
M.S. in Statistics
Preferred
Ph.D. in Statistics
Experience
Required
Minimum 2 years as Statistician
Preferred

Minimum 3 years as Statistician in Pharmaceutical Setting.

Special Skills

- Good written and oral communications skills.
- Computer proficiency in Word Processing and SAS programming.

If you are interested, please submit your resume to:

Human Resources Manager
Corning Besselaar, Inc.
200 Pringle Ave., Ste. 555
Walnut Creek, CA 94596
Fax: (510)974-3703

Senior Data Associate
Corning Besselaar
Walnut Creek

Key Responsibilities

- Key project team member with responsibility for maintenance of clinical database
- Data Associate's responsibilities, plus the following:
 - Develop time and cost estimates
 - Participate in proposal activities and client presentations.
 - Participate in development of Case Report Forms.
 - Mentor, train and supervise staff performing data management and data entry.
 - Manage data clean-up process.
 - Perform other duties as assigned by management.

Qualifications
Educational
Required
BA/BS
Experience
Required
Minimum 4 years increasing responsibility in data management of clinical trials.

Special Skills
Required

- Computer literacy.
- Good verbal and oral communication skills.
- Ability to work independently
- Time Management.
- Ability to supervise staff.

If you are interested, please submit your resume to:

Human Resources Manager
Corning Besselaar, Inc.
200 Pringle Ave., Ste. 555
Walnut Creek, CA 94596
Fax: (510)974-3703

Statistical Programmer
Corning Besselaar
Walnut Creek

Key Responsibilities

- Modify, validate, and implement project work in SAS primarily utilizing existing code.
- Supervision is expected.
- Assemble and validate production table runs.
- Modify and maintain existing programs and writing new SAS code to produce diagnostics for data review.
- Modify and maintain programs and writing simple SAS code with programming team support to produce data listings, summary tables, and graphs as specified in the Report and Analysis Plans.
- Create programs for routine data transfers.

- Assist with programming for tables for DSMB review and periodic interim analyses.
- Completing assigned tasks in an accurate and timely manner, while following Statistical Programming Standard Operating Procedures.
- Perform other duties as assigned by management.

Qualifications

Educational

Required

A.A.S.

Preferred

B.S. preferred in computer science or related field.

Special Skills

Required

- Good programming skills.
- Basic understanding of Base SAS
- Ability to make use of and modify existing SAS code.
- Interact with other programmers and Statistical Programming project managers.
- Discuss requests with statisticians, project associates, and data associates.
- Overtime required occasionally.
- Ability to communicate effectively verbally.
- Ability to follow directions.
- Ability and desire to quickly learn new job-related information and to increase independence.
- Willing to modify plans and behavior when necessary to meet a goal.
- Ability to shift priorities according to project tasks and requirements.

Preferred

- Exposure to SAS/STAT and macro language.

If you are interested, please submit your resume to:

Human Resources Manager

Corning Besselaar, Inc.

200 Pringle Ave., Ste. 555

Walnut Creek, CA 94596

Fax: (510)974-3703

Biostatistician

SEQUUS

Menlo Park

SEQUUS Pharmaceuticals, Inc. is a leader in the development, manufacture, and commercialization of liposomal drugs and lipid-based biopharmaceutical products primarily to treat cancer and infectious diseases. Proud to be among the 2 percent of biotech companies formed in the last 20 years with approved products on the U.S. market, we are building our talented team for further success.

The successful candidate should have a Ph.D. or M.S. in Biostatistics or Statistics with substantial experience in protocol development, analysis, conduct of multi-center clinical trials (experience in cancer clinical trials is a plus), and experience in NDA submissions. Knowledge of FDA regulations and regulatory submission process is required. Excellent communication, organizational, planning and documentation skills are essential. Broad knowledge of statistical methods for the analysis of clinical trials (Phase I through IV) is required.

To achieve SEQUUS's mission of improving patients' lives, we are building teams and empowering the best talent in our industry, providing a productive professional environment, and rewarding performance linked to the achievement of goals. Please send your resume to:

SEQUUS Pharmaceuticals, Inc.

Professional Staffing

960 Hamilton Court

Menlo Park, CA 94025

fax (415)453-3124.

We promote a diverse workforce/EOE.

Statistician

Bank of America

San Francisco

Bank of America is seeking statisticians for its retail banking marketing group in San Francisco. You will be responsible for the

development and implementation of statistical models to improve sales and marketing programs in retail banking. The statistical models you will develop will predict attrition, product and response propensity to specific products and promotions using current customer data.

The ideal candidate will have a MS in Statistics plus at least 2 years related business experience. Expert with SAS and experience using large data sets. SQL a plus. Strong project management and communication skills are essential.

E-mail your resume to:

Henry.Bennett@Bankamerica.com

or mail your resume to:

Henry Bennett

San Francisco Recruiting Resources
#13608

SFASA-HB8444

P.O. Box 37000

San Francisco, CA 94137.

Senior Statistician

Financial Proformas Inc.

Walnut Creek

Financial Proformas Inc. was founded in 1981 and currently has a full-time employed staff of approximately 70. FPI is the market leader in providing P.C. and server based software work tools to commercial bank lenders to assist them in evaluating and processing commercial loan transactions. The Company's principal software products are installed in more than 50 of the top 100 banks in the U.S. and a total of more than 2000 institutions world-wide. Staffed by bankers, financial specialists, software development professionals and training experts, FPI uses proven expertise in applying the science of computing technology and credit management to the art of risk assessment and management of the commercial lending process. FPI sells its software products and

education services directly to its user-clients through a network of full-time sales people resident throughout the U.S. as well as in Canada, Australia, and the U.K. FPI is available in English, French Canadian, Spanish Danish, German and Dutch. Credit educational materials are available using U.S., Canadian, Australian, and U.K. terminologies and formats.

The Senior Statistician will assume immediate managerial responsibility for a body of on-going developmental work in building and testing large scale computer based models which provide predictive outcome estimates based on large samples (60,000) of commercial loan and related financial data. The end product of the work can be viewed as the commercial loan equivalent of consumer loan credit scoring technology. Clients of the Company will use the results of this work to improve their ability to assess individual, and consequently, loan portfolio risk levels, shifts in those levels and as an input to adjusting loan policy.

Success in this position requires substantial knowledge and proven skills in a wide range of disciplines, including

- Demonstrated successes in building/utilizing statistical models to predict likely outcomes.
- Knowledge of commercial financial analysis; experience in commercial loan processing systems would be a significant plus

Ph.D. or MA degrees in mathematics, statistics, or operations research.

If you have interest, please Fax your resume and any other pertinent information to:

Paul Erickson
Strategic Consulting Services
Fax:(415)435-0376.

Senior Programmer Analyst SEQUUS Menlo Park, CA

You'll serve as lead programmer responsible for the coordination, planning and programming of tasks. As a technical resource for the department, you will be provided with consultation on special project programs. You'll also assist in the specification, development, implementation and maintenance of software systems to expedite the performance of analysis and reporting tasks. Other responsibilities will include developing, redefining and documenting procedures, as well as assisting training analysts. We require a BS or MS in statistics, mathematics or a related field with 4-7 years' clinical applications programming experience. You must demonstrate excellent SAS skills and strong knowledge of UNIX operating systems. A knowledge of SPlus, multiple hardware platforms and a variety of software packages is desirable.

SEQUUS Pharmaceuticals, Inc. is a leader in the development, manufacture, and commercialization of liposomal drugs and lipid-based biopharmaceutical products primarily to treat cancer and infectious diseases. Interested candidates may send resume to:

SEQUUS Pharmaceuticals, Inc.
Professional Staffing
960 Hamilton Court,
Menlo Park, CA 94025
fax 415/463-3124.

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Senior Biostatistician SEQUUS

Menlo Park, CA

The successful candidate should have a PhD in Biostatistics or Statistics with substantial experience in protocol development, analysis, conduct

of multi-center clinical trials (experience in cancer clinical trials is a plus), and experience in NDA submissions.

Knowledge of FDA regulations and regulatory submission process is required. Excellent communication, organizational, planning and documentation skills are essential. Broad knowledge of statistical methods for the analysis of clinical trials (Phase I through IV) is required.

SEQUUS Pharmaceuticals, Inc. is a leader in the development, manufacture, and commercialization of liposomal drugs and lipid-based biopharmaceutical products primarily to treat cancer and infectious diseases. Interested candidates may send resume to:

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Strategic Planning Analyst Leading Healthcare Provider Fresno

As a member of our top-rated Fresno healthcare team, you will contribute to our strategic planning efforts, including supporting service line, corporate and other market research and business planning efforts, as well as ensuring reliable reporting, synthesis and analysis of case mix data, primary and secondary market research studies, and various other purchase information sources.

Qualifications: Must be analytical, yet innovative with proven marketing and statistical analysis skills and the following:

- Bachelor's degree in Business, Marketing, IS or related area
- 2 years' strategic planning or comparable experience, ideally in a healthcare setting

- Strong verbal and written communication skills and a results-oriented attitude are musts.
- High-level computer skills and programming knowledge, specifically with HBO case mix, dBase, SPSS, Atlas, GIS, Focus, Microsoft Word, Excel and PowerPoint.

We offer a competitive salaries and benefits package. To apply, mail detailed cover letter with resume to:

Terry Foushee,
Human Resources
Saint Agnes Medical Center,
PO Box 27590
Fresno, CA 93729-7590
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Biostatistician/Statistician Pharmaceutical Company Bay Area

A major biopharmaceutical company engaged in the development of therapeutics, vaccines, diagnostics and ophthalmic products has a position for a biostatistician/statistician in the San Francisco Bay Area.

You would be responsible for

- providing statistical support for the company's diagnostic probe products
- insuring the statistical rational for products transferred to manufacturing.
- designing and interpreting experimental data
- developing trending of all in-process testing.
- evaluating and implementing cGMP compliance procedures to improve manufacturing performance of products
- designing experimental studies to troubleshoot product failures
- writing the statistical section of all validation plans.

You would report to the Technical Operations Manager.

Requirements are a BS/MS in Biostatistics/Statistics and/or related field and five or more years of related industry experience. Experience should include statistical support in manufacturing and quality control with a regulatory environment. Some knowledge of GMPs/GLPs related to FDA requirements is preferred but not required. Experience using SAS or other related software.

Starting salary will be very competitive and will be based on experience level. Will be eligible for bonuses and stock options. Comprehensive benefits will be provided, including relocation assistance.

Contact:

Romeo-Hudgins Assoc.
Executive Search Consultants
200 Lake Drive East, Ste. 206
Cherry Hill, NJ 08002
Phone (609)-482-7840, fax (609)486-0387.

Statistical Programmer Analyst III or Senior Statistical Programmer Analyst

West Coast Location

Candidate should have extensive experience in the data management, analysis, file preparation and statistical presentation (tables and graphs) with respect to the statistical analysis of clinical trial data. He/she should have experience working very closely with biostatisticians as well as information systems, clinical, medical, and regulatory personnel.

The candidate should have the demonstrated ability to independently research current and emerging technologies that can impact and improve the design, conduct, analysis, and presentation of clinical trial data. The candidate should be able to critically evaluate, communicate, and recommend suggested approaches to achieve the above objectives.

Examples of current technology might include remote data entry, computer assisted regulatory filings, intranet and Internet technology.

Experience:

B.A./B.S. in statistics, applied statistics, biostatistics, mathematics, biology or related fields. 5-9 years experience using SAS in a biomedical or other health related field is required with 1-3 years of full time SAS programming experience in biotech/biopharmaceutics field.

Contact: Ann Floyd
The Chase Group, Inc.
Phone (913)663-3100 Ext. 129
Fax (913)663-3131
e-mail:anna@chasegroup.com

Knowledge Discovery Engineer (Statistician)

Various Locations

In this position candidates will be responsible for the implementation and technical success of installed datamining/knowledge discovery accounts, providing on-site knowledge discovery services for Global 1000 companies as part of complex project plans and identify customer problems and translate them into new discovery opportunities. Qualified candidates will be proficient with artificial intelligence/pattern recognition techniques, knowledge of relational databases, SQL, ODBC, Visual Basic/C++ and other GUI tools as well as proficient with UNIX and PC/Windows or Macintosh. Must have a BA/BS or equivalent with 5+ years of experience in the computer industry, 3+ years of experience with a large scale data mining/knowledge discovery/pattern recognition project as an implementor. Project management experience is a plus. Some travel required. Positions are available in many major U.S. metropolitan areas as well as Northwest Arkansas and Central Illinois.

For more information you may send your resume or a short e-mail

message describing your relevant experience to lehman@neovista.com. Or for this position, contact directly:

J.T. Lehman

Neo Vista Solutions, Inc.

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Cupertino, CA 95014

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Conference Announcement

Biopharmaceutical Contract Manufacturing

Accelerating Time to Market Through Innovative Outsourcing Initiatives

American Business Symposiums is hosting a "biopharmaceutical contract Manufacturing" conference on May 6 & 7, 1997 in Cambridge, MA at the

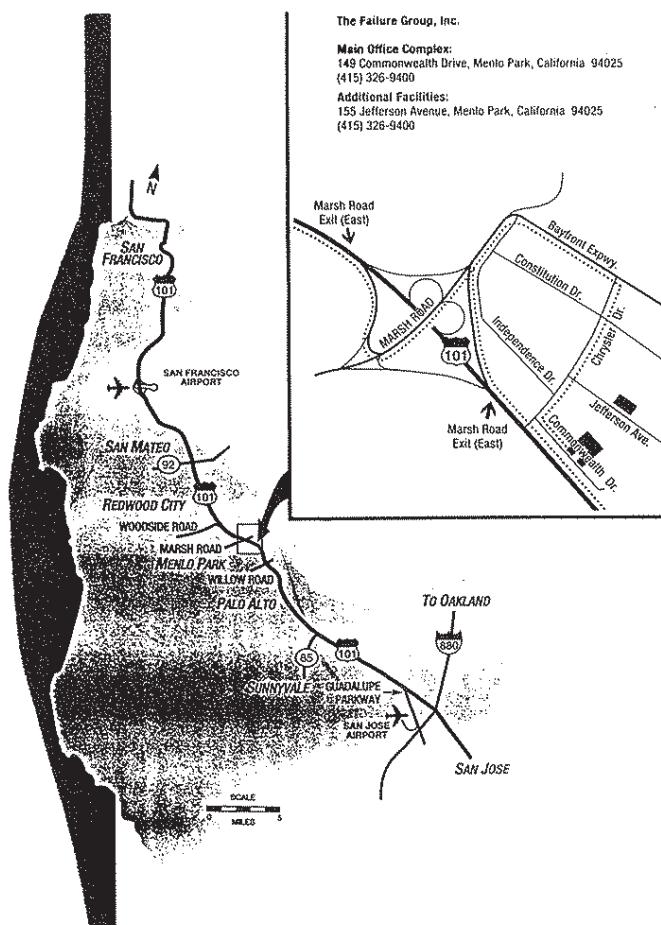
Charles Hotel.

The emphasis of the conference will be practical solutions and "how to" approaches in setting up, incorporating, utilizing and maximizing the benefits afforded by an outsourced manufacturing agreement. With several case studies by real world users, this conference is designed to enable both client and customer to leave with the tools for developing competitive plans to secure and maintain a competitive

advantage in the field of biopharmaceutical development and manufacturing.

Punctuating the practical thrust of the conference will be presentations covering "best practices," "relationship building," "successfully identifying a contract manufacturer to meet your goals," "global outsourcing opportunities," "maintaining control and quality when outsourcing," and "managing multiple products at multiple sites."

To register or request a conference brochure please call Chris White, Conference Director, at American Business Symposiums, (617)736-0800.



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: (415) 688-7203, fax: (415) 238-2988, e-mail: sfamk@fail.com.

<= Map to Failure Analysis

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— Chastain Consultant

What is the perfect fit? To the company manager, it is finding the right consultant; to the consultant, it is finding the right company. To us, finding the perfect fit is the bottom line.

Why are we so successful at making perfect fits? Because we know the biotech/pharmaceutical industries from the inside . . . as professionals, consultants, and managers. Led by founder Dr. Robert Chastain, our professionals have a wide experience in these industries . . . we know the people, the technologies, and the products.

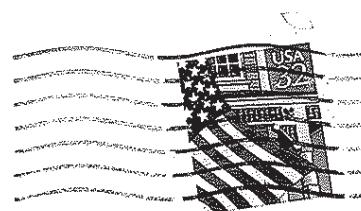
If your work involves clinical data management, statistical analysis, or statistical programming . . . if you are a manager seeking professional expertise with exceptional service . . . if you are an expert consultant who wants the best support in the industry . . . you should call Chastain Research Group . . . today.



CHASTAIN RESEARCH GROUP, INC. □ 2220 Homestead Court, Suite 109, Los Altos, CA 94024 □ (408) 245-2024



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April 1997

Joint Biostatistics and General Applications Program and Stanford Biostatistics Workshop

"Regression Methods for Data from Epidemiological Studies of Heterosexual HIV Transmission"

Stephen Shiboski
Department of Epidemiology and Biostatistics
University of California
San Francisco, CA

Abstract

Infection outcomes from studies of heterosexual transmission of HIV are often subject to interval or double censoring, posing challenges to estimation and inference. I will present some recent regression approaches for investigating covariate effects and hazard estimation in this setting, using data from three CDC-sponsored studies of transmission in partners of previously infected individuals for examples. In addition, I will discuss inherent limitations of such studies in providing information about important features of the transmission process, such as variations in infectiousness and susceptibility.

Date: Thursday, April 17, 1997
Time: 3:45 - 4:15 PM Coffee
4:15 - 5:15 PM Talk
Place: **Coffee:** Statistics lounge on the third floor
Margaret Jacks Hall, Building 460 in the center of the Outer Quadrangle facing the Oval
Talk: Room 30, Building 200, the History Corner of the Stanford Quadrangle

Dinner for the speaker will follow at 6 PM

Directions: A map of the Stanford campus is available at
<http://www.stanford.edu/home/visitors/campus-map.html>. See the following directions.

Directions to Talk at Stanford:

Park in the lot that surrounds 855 and 857 Serra Street. Be prepared with quarters for parking meters. Marked constraints on parking are enforced until 5 PM.

From 101 take the University Avenue off ramp and head west from the freeway. Stay on University Avenue through Palo Alto. About two miles from 101 the street becomes Palm Drive, and you enter the Stanford campus.

Come up Palm Drive and turn left onto Campus Drive East. Take the third right onto Serra Street. The parking lot that surrounds 855 and 857 Serra Street is on your right.

From 280 get off at Alpine Road and head east (towards the Bay, not the hills). Turn right at the light onto Junipero Serra. Turn left at the second traffic light (intersection of Campus Drive East and Junipero Serra.). In about six blocks, at the corner of Serra Street and Campus Drive East, turn left, and follow the instructions above. From El Camino Real, turn into Stanford at Palm Drive and follow the instructions above.

To Refreshments and Talk

Walk away from the direction of Campus Drive East, past tennis courts, Arguello Way, and Galvez Street, all on your right, and the Hoover Tower on your left. Almost immediately you come to the corner of the Quadrangle, to Building 200 where Dr. Shiboski's presentation is. To get to the refreshments, continue down the edge of the Quadrangle, past the center, to Margaret Jacks Hall and the Department of Statistics. Take the elevator or walk to the third floor for the refreshments.

Employment ads are now \$50 per insertion. Please contact chapter secretary.

PRESIDENT Kathleen Lamborn (415) 476-8863 lambornk@neuro.ucsf.edu	PRESIDENT-ELECT Michael Lock (408) 954-2583 Michael_Lock@bdis.com	VICE-PRESIDENT GENERAL APPLICATIONS Ding Li (415) 622-0408 ding@crl.com	VICE-PRESIDENT BIOSTATISTICAL PROGRAMS Ying Lu (415) 502-4596 ying_lu@rad-mac1.ucsf.edu	TREASURER Jim Lenihan (415) 742-0131 jim@sfasa.org	SECRETARY Ann Kalinowski (415) 688-7203 sfamk@fall.com
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OPEN POSITIONS:

Statistician

UCSF Dept. of Medicine Division of Rheumatology

50-100% effort (depending on experience and salary level. The major duty of this job is to serve as the statistician for an ongoing genetic epidemiology of rheumatoid arthritis project. The project components include longitudinal patient information, physician surveys, genotyping data, radio-graphic data, medical record information, and family histories (i.e., pedigrees). This job requires analysis (e.g., PROC MIXED, GEE macro). This job also required familiarity with PC hardware and software. This individual must have a master's degree in statistics (or a closely related field), or extensive previous statistical analysis experience. Preferred skills include experience or a strong interest in genetic epidemiology, including analysis of family (pedigree) data, and excellent writing skills. Experience with Access (Part of Microsoft Office) and/or Cyrillic (pedigree) software is desirable. Comfort with computer software and hardware upgrades, internet access, and networking is also desirable. This job will involve close interaction with the Principal Investigator, and with other staff involved in data collection, entry and cleaning. Examples of analyses planned for the first six months include: the relationship between genetic factors and long-term clinical outcomes, interactions between genetic and environmental factors and disease susceptibility, and relevance of genotype to clinical decision making. For further information, contact Lindsey Criswell at Tel: (415)476-9026, FAX:(415)476-9370, or e-mail: lac@itsa.ucsf.edu.

Pacific Research Associates

Los Altos

SAS Programmer

We are a growing consulting firm that offers high-quality research support to the pharmaceutical and biotechnology industries. Our operation is built upon biostatisticians, programmers, and data specialists executing statistical programs

designed to analyze clinical trial data. You will assess data accuracy and consistency, identify protocol violations, implement statistical analyses and produce final tables and figures. Qualified applicants should have training equivalent to a BS in a quantitative discipline or equivalent work experience, and 2 years experience in the analysis of clinical data. Must have familiarity with common statistical analyses and extensive knowledge in designing, conducting, analyzing and reporting clinical studies.

As a member of our team you will be responsible for planning writing and of SAS and other software packages used to perform statistical analyses.

Please send your resume to:

Pacific Research Associates
Attn.: Sally Kimball
399 Main Street
Los Altos, CA 94022
Phone (415)917-3660
Fax:(415)917-3683

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Milpitas

As part of the LifeScan team, your knowledge and skills will bring special rewards. Not only will you be instrumental in helping to develop innovative ways to manage diabetes, your work will improve the quality of people's lives. Our continued growth directly reflects how well we satisfy our customers, and provides us with the resources for further technological break-throughs. Combining technology and concern for simple human needs is the source of LifeScan's extraordinary success, and it can be yours, too.

Statistician:

In this fast-paced environment, you'll assist project teams within LifeScan in designing test protocols, statistical analysis and presentation of data. Utilizing appropriate statistical and analytical techniques, your problem

solving skills will be needed to assist management in making critical decisions.

You will need an MS or Ph.D. in Statistics, or equivalent, with 2+ years' experience in a manufacturing environment or medical device industry. Your knowledge of FDA requirements for 510k submission is desirable. Experience in the design and analysis of clinical trials, sampling plans, design of experiments, and SPC is essential. You must be proficient in SAS, possess excellent written and verbal communication skills, as well as be an experienced project leader and team player. **JOB CODE SFASS97-1.**

Statistical Programmer:

Utilizing your technical skills in Statistics and SAS programming, you will work primarily with statisticians in developing and validating applications within the Statistical Support Group. You will be involved in creating SAS applications for product development, manufacturing support, and clinical studies, as well as assist in statistical analysis of data.

Requires a BS or MS in Statistics, or equivalent, with 3+ years' experience in SAS programming. You must be proficient in SAS STAT, BASE, MACRO, GRAPH, and IML. You must be a proven team player and possess excellent written and verbal communication skills. **JOB CODE SFASS97-2.**

Life Scan, a division of Johnson & Johnson, offers a competitive compensation and benefits package. Please mail or fax your resume (indicating Job Code) to: LifeScan, Inc., Attn.: HR, 1000 Gibraltar Drive, Milpitas, CA 95035-6312. FAX(408)942-3678. Call our free Job Hotline: (888) 455-JOBS. See us on the World Wide Web at: www.LifeScan.com. LifeScan is proud to be an equal opportunity employer and encourages women and minorities to apply.

Inverse Network Technology Inc.

Santa Clara

Inverse Network Technology Inc. provides products and services to

measure end-to-end Internet performance as experienced by real users. We enable the Internet community to improve their quality of service, including reliability and performance. Our customers include four of the top five Internet Service Providers and major Internet-enabled applications vendors, including Intuit and WebTV.

Engineering Job Description

We are looking for full or part time consultant(s) with a strong statistics background. The job could convert to full time employment. The company collects data about Internet performance and diagnostics. The data consists of millions of data points that

need to be analyzed on an ongoing basis and the statistical implications of the measurement and interpretation techniques understood. Based on this analysis we will refine our measurement and analysis techniques, and be

able to optimize the data collection.

Requirements are a BS in Mathematics or Statistics or equivalent and statistical data analysis experience. It would be desirable for the candidate to have :

practical experience in analyzing real-world data, experience in analyzing network data and in using databases and/or spreadsheets to analyze and visualize the data. Also desirable would be an MS in Statistics or equivalent and programming experience

Contact information:

Fax your resume to 408-486-6050 or email it to jobs@inversenet.com

We will contact you as soon as possible

May 1997

Joint Biostatistics and General Applications Program and Stanford Biostatistics Workshop

"Recent Developments in Survival Distribution"

Chin Long Chiang
University of California Berkeley, CA

Abstract

Two survival distributions will be proposed in this presentation. They are tentatively entitled: (1) Survival and stages of diseases, and (2) A yet unnamed distribution.

(1) Survival and stages of disease --- The development of many chronic conditions is characterized by stages. Generally, diseases advance with time from a primary condition through intermediate stages to advanced stages, to death. The process often is irreversible but a patient may die while being in any one of the stages. In the natural development of cancer, for example, there are stages of the disease determined by the size of tumor and metastasis of cancer. AIDS also develops in stages. Explicit formulas will be presented for the density function, the distribution function, and moments of the distribution. Maximum-likelihood estimation of the parameters will be discussed.

(2) The yet unnamed distribution - There are two forces acting on a person to influence his survival and death. One force causes the force of mortality to increase, while the other force causes the force of mortality to decrease. A survival density function based on the interaction of the two forces will be proposed. Application of the distribution to the estimation of time to tumor will be presented.

Date: Wednesday, May 7, 1997

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

Place: Room SU 1325, Cal State University, Hayward

Dinner for the speaker will follow at 6 PM

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Cal State Hayward Directions:
From 880 north or south take the Jackson Ave. exit and head east (toward the hills).

From 92 East, continue over the 880 overpass.

Turn right onto Harder Road (first light after 880 overpass). Cross Mission Blvd. onto Cal State Hayward campus. SU appears shortly on the left. Lot C has metered areas. Day permits (6 quarters) are available at lots C and D near SU.

From 580/238, take the Hayward exit Foothill Blvd. Keep to the left at the end of downtown Hayward, and go Mission Blvd. From Mission Blvd. turn either on Carlos Bee or on Harder Rd. Carlos Bee ends on the Loop Rd. Turn right onto West Loop Road, then left onto Harder. are then near parking lot C and SU.

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Chastain always provides consulting support that is expert, professional, and efficient . . . their service is exemplary.

“Chastain matches me with companies where I can use my consulting expertise to the fullest... and gives me the support I need to do my best work.”

— Chastain Consultant

What is the perfect fit? To the company manager, it is finding the right consultant; to the consultant, it is finding the right company. To us, finding the perfect fit is the bottom line.

Why are we so successful at making perfect fits? Because we know the biotech/pharmaceutical industries from the inside . . . as professionals, consultants, and managers. Led by founder Dr. Robert Chastain, our professionals have a wide experience in these industries . . . we know the people, the technologies, and the products.

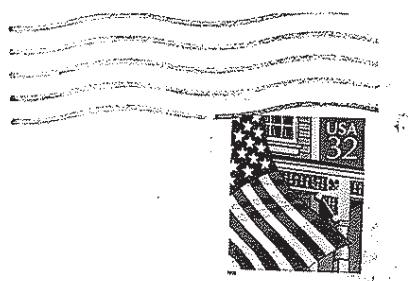
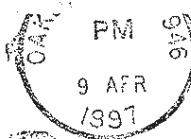
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June 1997

Joint Biostatistics and General Applications Program

"Oncology Clinical Trials: How Are They Different?"

Speaker: Sue Hellmann, M.D., Chief Medical Officer, Genentech Inc.
Discussant: Kathleen Lamborn, Ph.D., Professor Neurological Surgery,
Director UCSF Cancer Center Biostatistics Core

Abstract

The approach to designing and analyzing cancer clinical trials has historically been different from that used for many other disease types.

Three major compounds recently approved for cancer will be outlined: Taxol for breast cancer, CPT-11 for colon cancer, Gemcitabine for pancreatic cancer. Discussion will include the unique features of the trial designs and endpoints used to evaluate these therapies.

Date: Thursday, June 12, 1997

Time: 3:30 - 4:00 PM Refreshments
4:00 - 4:15 PM Business Meeting and Officer Elections
4:15 - 5:15 PM Discussion

Place: Genentech Conference Rm. 5Q, Building 5
499 Point San Bruno Blvd., South San Francisco

Dinner for the speakers will follow at 6 PM

Directions: Refer to enclosed map. You may also access the map and directions on the internet at <http://www.gene.com/directions.html>.

Officer Candidates for 1997-1998

The chapter's annual business meeting will be held just before the discussion at the June 12 meeting. At that time, elections of next year's officers will be held. So far the nominees are as follows:

President:

Michael Lock
Becton-Dickinson

President-Elect:

Ying Lu
University of California,
San Francisco

Vice President for General Applications

Ding Li
Bank of America

Vice President for Biostatistical Programs

Hina Malani
Center for Applied Statistics

Treasurer

Jim Lenihan
Trilogy Consulting Corporation

Secretary

Ann Kalinowski
Failure Analysis Associates, Inc.

PRESIDENT
Kathleen Lamborn
(415) 476-8863
lambornk@neuro.ucsf.edu

PRESIDENT-ELECT
Michael Lock
(408) 954-2583
Michael_Lock@bdis.com

**VICE-PRESIDENT
GENERAL APPLICATIONS**
Ding Li
(415) 622-0408
ding@crl.com

**VICE-PRESIDENT
BIOSTATISTICAL PROGRAMS**
Ying Lu
(415) 502-4596
ying_lu@rad-mac1.ucsf.edu

TREASURER
Jim Lenihan
(415) 742-0131
jim@sfasa.org

SECRETARY
Ann Kalinowski
(415) 688-7203
sfamk@ail.com

If you have any other nominees for these positions, please feel free to contact the Chair of the nominating committee, Lauren Schoof, at (510)824-6627.

Newsletter Update

The national organization of the American Statistical Association is often several months behind in forwarding your names and dues to us, so the Chapter instituted the policy of sending newsletters out even to those whose membership has lapsed by our records. However, this policy has resulted in having some persons on our mailing list being not just a few months, but a few years in arrears. Please take the time this summer to make sure that your chapter membership is up-to-date. Chapter dues (\$9 for one year regular membership, \$3 for one year student membership.) The dues may be paid either along with National dues at the time you renew your ASA membership, or directly to the Chapter by mailing them to Jim Lenihan at 15 Moonlight Court, South San Francisco, CA 94080. This newsletter is the last chapter members will receive for the 1996-1997 year. Over the summer I will update the membership records with the national organization, and will flag members who are in arrears on their September 1997 mailing labels. After the

September newsletter, members who are not current on their Chapter dues will be dropped from our mailing list.

ASA Traveling Course in Sacramento

The Sacramento Chapter is sponsoring an ASA Traveling Course on logistic regression, given by Michael Kutner from 9 AM to noon on June 9, 1997 at the Sacramento State University Student Union. Cost for the course is \$30. Contact Kathleen Gallagher, President of the Sacramento Chapter at ZKJL73A@PRODIGY.COM for more information.

Open Positions

Gilead Sciences Foster City

Gilead Sciences is a leader in the discovery and development of a newclass of broad spectrum antiviral therapeutics that may provide powerful new treatments for CMV retinitis, HIV, influenza and other viruses.

Manager, Biometrics

Acting as a team leader for a group of statistical programmers in NDA submissions, you

will provide input on automating statistical reporting, design statistical analyses, and write up methodology and results sections of study reports. You will need a Ph.D. and 5 years' pharmaceutical experience. Applied statistical knowledge, experience with NDA submissions, good oral/written communication abilities, SAS programming skills (including macros), and knowledge of database design are required.

Statistical Analyst

You will explore and exploit the relative strengths of SAS and Clintrials 4.0 to prepare and implement an efficient programming infrastructure for automated tracking and reporting for clinical trials. This will include creating a library of SAS macros and resalable tools and maintaining a seamless interface between Clintrials, wordprocessors and SAS and connectivity for remote SAS users. You will also create a GUI report interface for clinical and data management users and provide users the ability to browse CRFs, data listings and summaries. Along with a Master's in Statistics and 5 years' relevant experience, we require strong skills in these areas: SAS macros; SAS-AF; SAS-EIS; SAS-Graph; SAS-FSP; structured programming; UNIX. Excellent analytical, writing and communication

skills are also essential. Two positions available.

Statistical Programmer

You will perform analyses of clinical trial data, including listings, tabulations, graphical summaries and formal statistical estimates and tests. You will also edit specifications for quality control of data, perform cross study analyses and use SAS macros to automate all of the above functions. We will also rely on you to develop reporting analysis plans for new studies and assist in the preparation of NDAs. Your Master's degree in Statistics should be supported by 3 years of experience demonstrating skill in the following areas: SAS-Stat, SAS-Graph, SAS macros, structured programming, and statistical analysis. Good oral and written communication abilities and analytical skills are required.

Interested candidates should send a resume, indicating position of interest, to: Human Resources, Gilead Sciences, Inc., 333 Lakeside Drive, Foster City, CA 94404, fax (415) 573-4800. Or check our website: www.gilead.com. We are proud to be an equal opportunity employer.

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Biostatistician/Statistician

We are recruiting a biostatistician or statistician with training and experience in clinical research and (ideally) organ transplantation. This person will be part of our clinical development group and report to the Executive Director. Responsibilities will include leading in the development of biostatistical support including study design, biostatistical methodology and analysis (i.e. bioequivalence testing, life

table survival analysis, multivariate analyses, etc.) and collaborating in development of the data management system. In addition, it is desirable for this person to be interested in developing new models for transplant data analysis and testing the validity of new transplant study end points.

Qualifications include a Ph.D. in biostatistics/statistics, or M.S. with clinical trial experience.

Interested persons should call and send a resume to:-

Daniel M. Canafax, Pharm.D.
Executive Director, Clinical Development

SangStat Medical Corp.
1505 Adams Dr.
Menlo Park, CA 94025
phone (415)688-2355
FAX (415)329-9599

Directions to Genentech

From San Francisco:

- Take 101 Freeway south.
- Exit at Grand Ave/South San Francisco
- At the bottom of the ramp, turn left onto Airport Blvd.
- At stoplight, turn left onto Grand Ave. and proceed under freeway to East Grand Ave.
- At the fourth stoplight, turn left onto Forbes Blvd.

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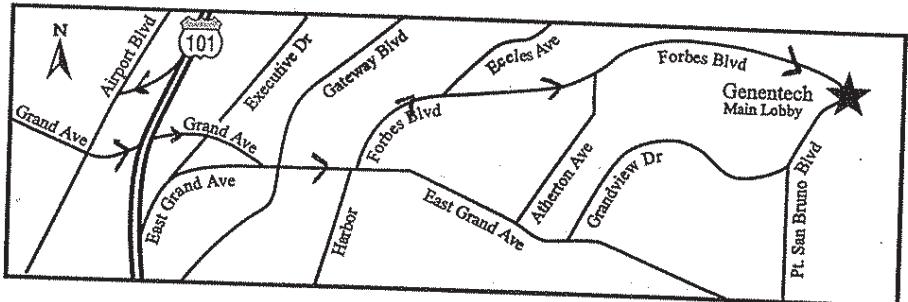
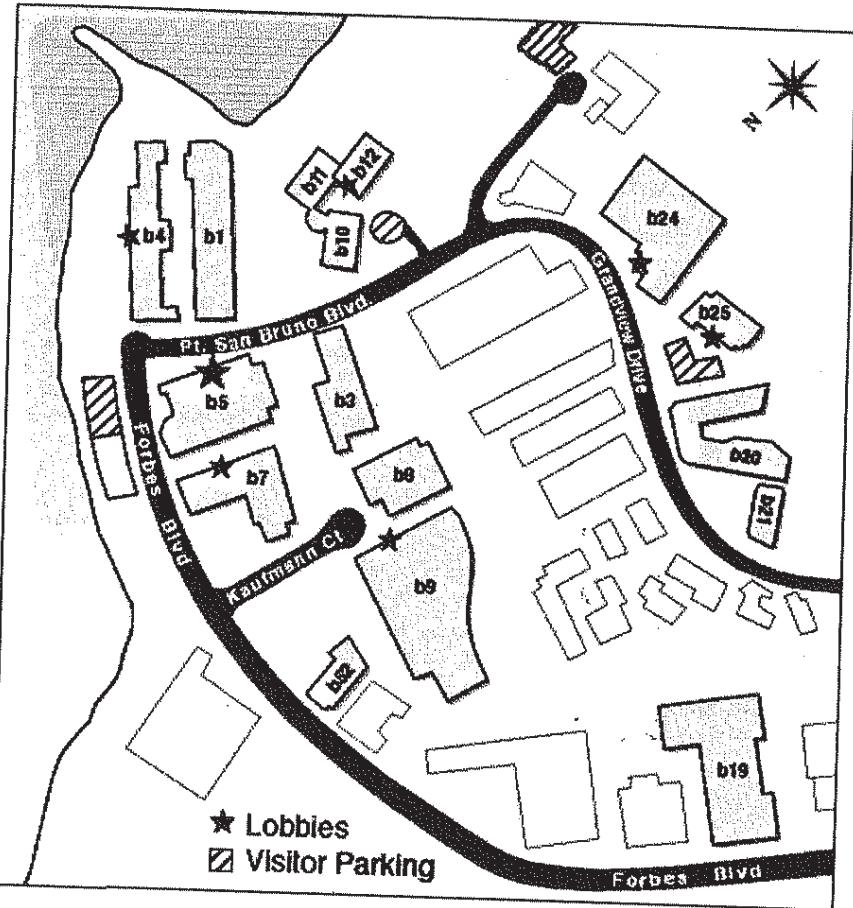


- At the fourth stoplight, turn left onto Forbes Blvd.
- Continue on Forbes Blvd. for 1.3 miles until it terminates at Point San Bruno Blvd.
- Park in the lot on Forbes Ave. across from Bldg. 5 and register in the lobby of Bldg. 5.

From the Peninsula and San Jose:

- Take 101 Freeway north.
- Exit at Grand Ave/ South San Francisco.
- At the bottom of the ramp, turn right onto East Grand Ave.
- At the first stoplight, turn right to continue on East Grand Ave.
- At second stoplight, turn left onto Forbes Blvd.
- Continue on Forbes Blvd. for 1.3 miles until it terminates at Point San Bruno Blvd.

Proceed to the visitor parking lot on Forbes Ave. across from Bldg. 5 and register at the lobby in Bldg. 5.



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— Chastain Consultant

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Why are we so successful at making perfect fits? Because we know the biotech/pharmaceutical industries from the inside . . . as professionals, consultants, and managers. Led by founder Dr. Robert Chastain, our professionals have a wide experience in these industries . . . we know the people, the technologies, and the products.

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April 1997

Joint Biostatistics and General Applications Program and Stanford Biostatistics Workshop

"Regression Methods for Data from Epidemiological Studies of Heterosexual HIV Transmission"

Stephen Shiboski
Department of Epidemiology and Biostatistics
University of California
San Francisco, CA

Abstract

Infection outcomes from studies of heterosexual transmission of HIV are often subject to interval or double censoring, posing challenges to estimation and inference. I will present some recent regression approaches for investigating covariate effects and hazard estimation in this setting, using data from three CDC-sponsored studies of transmission in partners of previously infected individuals for examples. In addition, I will discuss inherent limitations of such studies in providing information about important features of the transmission process, such as variations in infectiousness and susceptibility.

Date: Thursday, April 17, 1997
Time: 3:45 - 4:15 PM Coffee
4:15 - 5:15 PM Talk
Place: **Coffee:** Statistics lounge on the third floor
Margaret Jacks Hall, Building 460 in the center of the Outer Quadrangle facing the Oval
Talk: Room 30, Building 200, the History Corner of the Stanford Quadrangle

Dinner for the speaker will follow at 6 PM

Directions: A map of the Stanford campus is available at
<http://www.stanford.edu/home/visitors/campus-map.html>. See the following directions.

Directions to Talk at Stanford:

Park in the lot that surrounds 855 and 857 Serra Street. Be prepared with quarters for parking meters. Marked constraints on parking are enforced until 5 PM.

From 101 take the University Avenue off ramp and head west from the freeway. Stay on University Avenue through Palo Alto. About two miles from 101 the street becomes Palm Drive, and you enter the Stanford campus.

Come up Palm Drive and turn left onto Campus Drive East. Take the third right onto Serra Street. The parking lot that surrounds 855 and 857 Serra Street is on your right.

From 280 get off at Alpine Road and head east (towards the Bay, not the hills). Turn right at the light onto Junipero Serra. Turn left at the second traffic light (intersection of Campus Drive East and Junipero Serra.). In about six blocks, at the corner of Serra Street and Campus Drive East, turn left, and follow the instructions above. From El Camino Real, turn into Stanford at Palm Drive and follow the instructions above.

To Refreshments and Talk

Walk away from the direction of Campus Drive East, past tennis courts, Arguello Way, and Galvez Street, all on your right, and the Hoover Tower on your left. Almost immediately you come to the corner of the Quadrangle, to Building 200 where Dr. Shiboski's presentation is. To get to the refreshments, continue down the edge of the Quadrangle, past the center, to Margaret Jacks Hall and the Department of Statistics. Take the elevator or walk to the third floor for the refreshments.

Employment ads are now \$50 per insertion. Please contact chapter secretary.

PRESIDENT Kathleen Lamborn (415) 476-8863 lambornk@neuro.ucsf.edu	PRESIDENT-ELECT Michael Lock (408) 954-2583 Michael_Lock@bdis.com	VICE-PRESIDENT GENERAL APPLICATIONS Ding Li (415) 622-0408 ding@crl.com	VICE-PRESIDENT BIOSTATISTICAL PROGRAMS Ying Lu (415) 502-4596 ying_lu@rad-mac1.ucsf.edu	TREASURER Jim Lenihan (415) 742-0131 jim@sfasa.org	SECRETARY Ann Kalinowski (415) 688-7203 sfamk@ail.com
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OPEN POSITIONS:

Statistician

UCSF Dept. of Medicine Division of Rheumatology

50-100% effort (depending on experience and salary level. The major duty of this job is to serve as the statistician for an ongoing genetic epidemiology of rheumatoid arthritis project. The project components include longitudinal patient information, physician surveys, genotyping data, radio-graphic data, medical record information, and family histories (i.e., pedigrees). This job requires analysis (e.g., PROC MIXED, GEE macro). This job also required familiarity with PC hardware and software. This individual must have a master's degree in statistics (or a closely related field), or extensive previous statistical analysis experience. Preferred skills include experience or a strong interest in genetic epidemiology, including analysis of family (pedigree) data, and excellent writing skills. Experience with Access (Part of Microsoft Office) and/or Cyrillic (pedigree) software is desirable. Comfort with computer software and hardware upgrades, internet access, and networking is also desirable. This job will involve close interaction with the Principal Investigator, and with other staff involved in data collection, entry and cleaning. Examples of analyses planned for the first six months include: the relationship between genetic factors and long-term clinical outcomes, interactions between genetic and environmental factors and disease susceptibility, and relevance of genotype to clinical decision making. For further information, contact Lindsey Criswell at Tel: (415)476-9026, FAX:(415)476-9370, or e-mail: lac@itsa.ucsf.edu.

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Los Altos

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We are a growing consulting firm that offers high-quality research support to the pharmaceutical and biotechnology industries. Our operation is built upon biostatisticians, programmers, and data specialists executing statistical programs

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As a member of our team you will be responsible for planning writing and of SAS and other software packages used to perform statistical analyses.

Please send your resume to:

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Fax:(415)917-3683

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In this fast-paced environment, you'll assist project teams within LifeScan in designing test protocols, statistical analysis and presentation of data. Utilizing appropriate statistical and analytical techniques, your problem

solving skills will be needed to assist management in making critical decisions.

You will need an MS or Ph.D. in Statistics, or equivalent, with 2+ years' experience in a manufacturing environment or medical device industry. Your knowledge of FDA requirements for 510k submission is desirable. Experience in the design and analysis of clinical trials, sampling plans, design of experiments, and SPC is essential. You must be proficient in SAS, possess excellent written and verbal communication skills, as well as be an experienced project leader and team player. **JOB CODE SFASS97-1.**

Statistical Programmer:

Utilizing your technical skills in Statistics and SAS programming, you will work primarily with statisticians in developing and validating applications within the Statistical Support Group. You will be involved in creating SAS applications for product development, manufacturing support, and clinical studies, as well as assist in statistical analysis of data.

Requires a BS or MS in Statistics, or equivalent, with 3+ years' experience in SAS programming. You must be proficient in SAS STAT, BASE, MACRO, GRAPH, and IML. You must be a proven team player and possess excellent written and verbal communication skills. **JOB CODE SFASS97-2.**

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We are looking for full or part time consultant(s) with a strong statistics background. The job could convert to full time employment. The company collects data about Internet performance and diagnostics. The data consists of millions of data points that

need to be analyzed on an ongoing basis and the statistical implications of the measurement and interpretation techniques understood. Based on this analysis we will refine our measurement and analysis techniques, and be

May 1997

Joint Biostatistics and General Applications Program and Stanford Biostatistics Workshop

"Recent Developments in Survival Distribution"

Chin Long Chiang
University of California Berkeley, CA

Abstract

Two survival distributions will be proposed in this presentation. They are tentatively entitled: (1) Survival and stages of diseases, and (2) A yet unnamed distribution.

(1) Survival and stages of disease --- The development of many chronic conditions is characterized by stages. Generally, diseases advance with time from a primary condition through intermediate stages to advanced stages, to death. The process often is irreversible but a patient may die while being in any one of the stages. In the natural development of cancer, for example, there are stages of the disease determined by the and size of tumor and metastasis of cancer. AIDS also develops in stages. Explicit formulas will be presented for the density function, the distribution function, and moments of the distribution. Maximum-likelihood estimation of the parameters will be discussed.

(2) The yet unnamed distribution - There are two forces acting on a person to influence his survival and death. One force causes the force of mortality to increase, while the other force causes the force of mortality to decrease. A survival density function based on the interaction of the two forces will be proposed. Application of the distribution to the estimation of time to tumor will be presented.

Date: Wednesday, May 7, 1997

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

Place: Room SU 1325, Cal State University, Hayward

Dinner for the speaker will follow at 6 PM

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practical experience in analyzing real-world data, experience in analyzing network data and in using databases and/or spreadsheets to analyze and visualize the data. Also desirable would be an MS in Statistics or equivalent and programming experience

Contact information:

Fax your resume to 408-486-6050 or email it to jobs@inversenet.com

We will contact you as soon as possible

Cal State Hayward Directions:
From 880 north or south take the Jackson Ave. exit and head east (toward the hills).

From 92 East, continue over the 880 overpass.

Turn right onto Harder Road (first light after 880 overpass). Cross Mission Blvd. onto Cal State Hayward campus. SU appears shortly on the left. Lot C has metered areas. Day permits (6 quarters) are available at lots C and D near SU.

From 580/238, take the Hayward exit Foothill Blvd. Keep to the left at the end of downtown Hayward, and go Mission Blvd. From Mission Blvd. turn either on Carlos Bee or on Harder Rd. C Bee ends on the Loop Rd. Turn right on West Loop Road, then left onto Harder. are then near parking lot C and SU.

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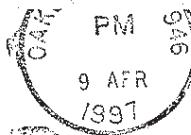
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Joint Biostatistics and General Applications Program

“Some Applications of Data Mining Tools in Database Marketing”

Jianmin Liu, Bank of America

Abstract

This paper presents some results of an empirical study on database marketing using CART, artificial intelligence-based algorithm (AI) and Logit model. The robustness of the three different approaches is evaluated using a large dataset. This study attempts to develop an analytical framework for database marketing. The goal is to establish a set of criteria for identifying potential customers of electronic commerce(EC). The selected criteria need to reflect the dynamics of market structure, demand for EC, new technology and, most importantly, the difference in various characteristics between prospect and non-prospect customers of EC. Using econometric and data mining techniques, it is found that there exist some patterns in customer profile associated with customers' response to EC. Successfully identifying these patterns is the core of the task.

Date: Tuesday, September 23, 1997

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

Place: Nursing Building Room N721, UCSF campus

Dinner: 6PM, place to be announced at talk

Directions: See map. A map and directions are also available from links at <http://www.ucsf.edu/campus/maps>. There is public parking available for \$2/hr in the Murray Student Union garage, across the street from the hospital entrance.

Officers for 1997-1998

The chapter's officers for the 1997-1998 year are:

President:

Michael Lock
Becton-Dickinson

President-Elect:

Ying Lu
University of California,
San Francisco

Vice President for General Applications

Ding Li
Bank of America

Vice President for Biostatistical Programs

Hina Malani
Center for Applied Statistics

Treasurer

Jim Lenihan
Trilogy Consulting Corporation

Secretary

Ann Kalinowski
Failure Analysis Associates,
Inc.

We wish to thank outgoing chapter president Kathleen Lambourn for her leadership this past year.

Message from the Chapter President

In the four years I've been associated with the Bay Area ASA, I've seen the efforts of the chapter gradually shift to serve the local statistics community in new ways that, traditionally, have not been the purview of either our local universities or

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Michael_Lock@bdis.com

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Ying Lu
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the national ASA organization. The most obvious example of this evolution has been the emergence of the chapter newsletter and web site as prime resources for local employers and job seekers in statistics.

Over the next two years, we would like to begin a new initiative to sponsor a series of occasional continuing education workshops to be offered locally. The main goal of this initiative is to provide a means for practicing statisticians to keep up to date with recent advancements in statistical research and computing technology without having to leave the Bay Area. A workshop might also serve as a forum for exchanging or learning practical techniques, especially those not usually covered in the university curriculum.

Currently we are soliciting input from chapter members on whether you'd consider attending a local workshop, and on what topics you'd most like to see addressed. Here are a few possibilities, just to stimulate your imagination:

- Bioequivalence
- Survival analysis in clinical trials
- Wavelets
- Data mining
- Meta-analysis
- Recursive partitioning and CART
- Statistical pattern recognition and neural nets
- Quality control
- Data visualization

The format of the workshops is also open to suggestion: they

could range anywhere from an afternoon of lecture and discussion to a two-day, intensive short course with hands-on computer training. I encourage you to contact either me or President-elect Ying Lu with your ideas on either format or topics. My phone number is (408) 954-2583, e-mail mike@sfasa.org; Ying can be reached at (415) 502-4596 or ying@sfasa.org.

Of course, we'll also need to identify instructors and workshop leaders. Please contact us if you would like to submit a proposal for teaching a workshop or if you can suggest a potential instructor.

---Mike Locke, President

Message from the Chapter Secretary

The printing and mailing costs for the chapter newsletter are by far the most expensive items in the chapter budget. Last year the longer newsletters cost around \$700 to produce. Postage alone for the 550 people on the chapter mailing list is around \$176. The rest of the charges result from the number of pages in the newsletter, which is comprised mostly of employment opportunities advertising. Until late last spring, employment ads were printed without charge.

To cut down the newsletter costs, I have taken three

approaches with the approval of the other officers:

- 1) Instituted a charge for employment ads to cover our production costs both for the newsletter and for our web site. (See schedule of costs later in the newsletter.)
- 2) Researched duplication services which could give the chapter a good rate for newsletter production.
- 3) Identified persons on the mailing list who have not paid chapter dues in over a year. This identification is complicated by the fact that the membership dates obtained monthly from the national organization may range over 6 months or more.

We believe that these changes will decrease newsletter costs and still provide the services desired by both our subscribers and our advertisers at a reasonable charge.

If you have any comments or further suggestions on how we can improve the newsletter and/or cut costs, or if I have misclassified your membership status, please contact me at sfamk@fail.com or (650)688-7203. You may also post to the webmaster at <http://www.sfasa.org>.

--Ann Kalinowski, Secretary

Seeing stars ***???**

If you see a set of *****'s next to your name on the mailing label, our records indicate that you have not paid chapter dues

since December 1995. This will be your last newsletter unless you pay your annual chapter dues of \$9 (\$3 student with verification of status).

Please make your check payable to the SF Bay Area Chapter of the ASA, and mail it to James Lenihan, Chapter Treasurer, at 15 Moonlight Court, South San Francisco, CA 94080.

Open Positions

Research Analyst

Allstate Research & Planning Center

Menlo Park CA

Mid-Peninsula research organization has immediate opening for a Research Analyst in our Insurance Research Group. The successful applicant will have a BA/BS in Economics, Business, Math or Statistics with a minimum of 2 years work experience in a business environment. He/she should have strong analytical, structured programming skills (PL/I desirable) and a working knowledge of mainframe and PC statistical software (SAS or SPSS). Excellent written and verbal communication skills are essential and insurance industry knowledge is a plus. Responsibilities include project development, programming, statistical analysis, report generation, data base building and maintenance. The Company pro-

vides excellent starting salary, pleasant working conditions and a broad package of employee benefits. EOE.

Send resume and cover letter to:

Human Resources
Allstate Research & Planning Center
321 Middlefield Road
Menlo Park CA 94025.
Phone (650)833-6253, Fax (650)324-9347 E-mail bcott@allstate.com.

Statistical Analysis Group Manager

Dade Microscan Inc.

West Sacramento CA

Dade MicroScan Inc. provides clinical diagnostics products and services to customers around the world, and we are part of a 5,500+ employee organization with sales of more than \$1 billion a year. We have an immediate opening for an energetic and motivated Group Manager for its Statistical Analysis Group.

The qualified candidate must possess a M.S. or Ph.D. in Statistics or a related field. The individual must have more than five years of experience in applied statistics in a healthcare industry. Managerial experience of two to five years is strongly desired. This individual will provide technical and

administrative direction to five to ten employees performing sophisticated analysis, developing experimental design tools and algorithms for a microbiology product. Leadership, communication and interpersonal skills are essential.

If you feel that you have the skills we need, please submit your resume and salary history to:

Human Resources Representative

Dade International, Inc.

1584 Enterprise Blvd.

West Sacramento, CA 95691. We are an equal opportunity employer m/f/d/v.

Systems Administrator; SAS Analyst/Programmer
William E. Wecker
Associates

Novato CA

William E. Wecker Associates, Inc. provides consulting services in applied mathematics and statistics to clients including Fortune 500 companies, financial institutions and government agencies.

This is a dual responsibility position:

- Systems Administrator function involves UNIX and Macintosh hardware and software installation and maintenance, including applications software, large

datasets, administrative and network functions and internal consulting

- Analyst/Programmer function involves working closely with senior consultants on data analysis assignments using SAS and other applications in a UNIX and Macintosh environment.

Desirable qualifications include:

- Bachelor's or Master's degree in statistics, mathematics, computer science or related field
- Strong problem solving skills
- Experience with SAS; experience with S-Plus and/or Mathematica a plus
- Experience with UNIX; experience with AIX a plus
- Familiarity with general business software (spreadsheets, graphics, word processing)
- Ability to work under deadlines

We are located in Novato, thirty minutes north of San Francisco.

Applicants should fax or mail resume and most recent university transcript to the following address. No telephone calls please.

Susan Hendrie-Marais

William E. Wecker
Associates, Inc.

505 San Marin Drive
Novato, California 94945
Fax: 415 898-2260

Gary Harvey
Harvey@wecker.com
415-898-2255 phone
415-898-2260 fax

Biostatisticians

Environmental Risk Analysis, Inc.

San Mateo, CA

Environmental Risk Analysis, Inc. (ERA) is a growing consulting firm that offers services in biostatistics, epidemiology and health risk assessment. Applied research for regulatory and litigation support composes the majority of our work. We seek superior professionals for the following positions:

Senior Biostatistician: Ph.D. 4+ years of experience (preferably in consulting) in the use of statistics and epidemiology in quantitative health risk assessment for environmental and occupational agents; consumer products; pharmaceuticals; and medical devices.

Biostatistician: M.S. with experience (prefer 1+ years) in executing and leading data analyses using SAS on large epidemiologic data sets; prefer experience in linear models, survival analysis, categorical analysis and epidemiologic methods.

Both positions are located in our San Francisco-area office and offer competitive

compensation. Please send a confidential application to:

William J. Butler, Ph.D.
Environmental Risk Analysis, Inc.

1670 So. Amphlett Blvd.,
Suite 115 San Mateo,
CA 94402 FAX: 415-655-7281.

Equal Opportunity Employer

Advertising Rates

Employment ads

Employment ads *must* describe a *specific* job opportunity: company, location, and job description.

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

\$50

General ads

These ads include general recruitment by employment agencies, consulting firms offering their services, etc.

For one newsletter insertion, *no* insertions on Web page

full newsletter page: \$200

half newsletter page: \$100

quarter newsletter page

\$50

eighth newsletter page \$25

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

Directions to UCSF

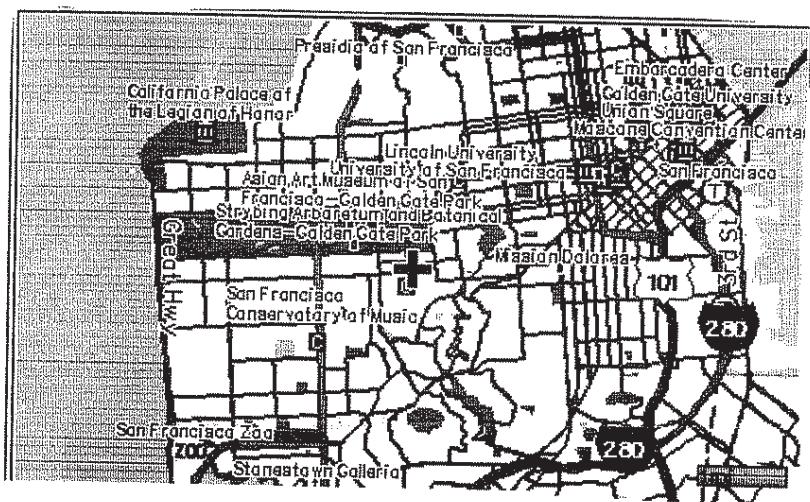
From the East Bay, take 101 south to the Fell Street exit. Stay in the right lane of Fell street for about 2 miles, to where the panhandle meets Golden Gate Park. Stay straight in the rightmost lane where Fell St. veers to the left at Golden Gate Park. At the stop sign, turn left onto Stanyan. Go up hill and turn right on Parnassus.

From the South Bay, take 101 north to Ninth St/Civic Center. Stay in the left lanes and exit on Fell St. Follow the direction above.

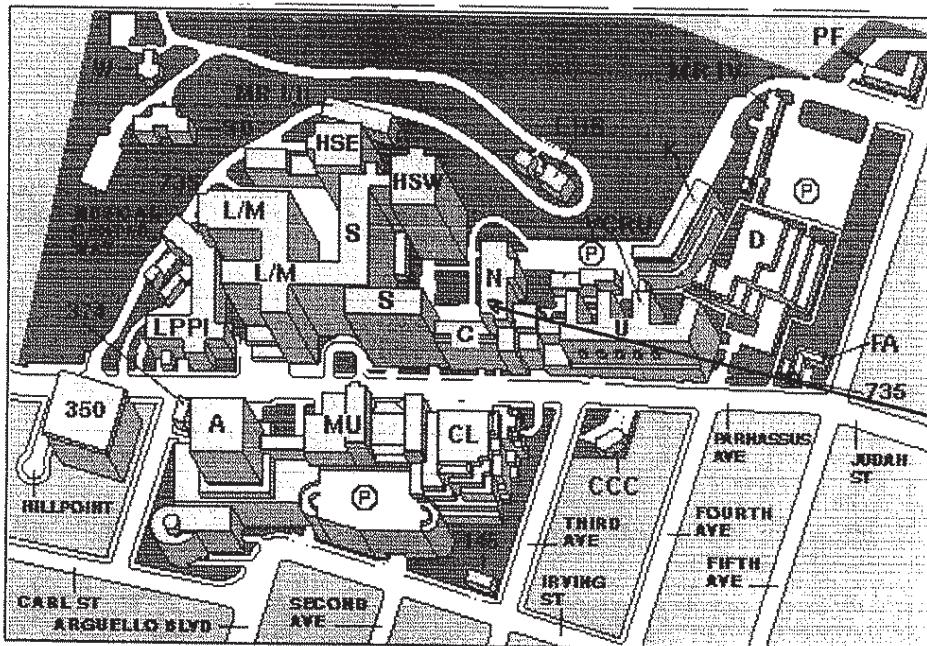
From the Peninsula, take 280 north. Stay in the left lanes and take the Golden Gate Bridge exit onto 19th Ave. Proceed in the right lanes and turn right (east) on Judah St. Judah turns into Parnassus at 5th Ave.

From Marin and Sonoma Counties, take the 19th Ave. exit about 1/4 mile after the

Golden Gate Bridge toll plaza. This is Park Presidio Dr. Stay in the right lanes passing through Golden Gate Park onto 19th Ave. No left turns are allowed on 19th Ave. Go three blocks on 19th, turn right on Kirkham right on 20th, and right (east) on Judah. Judah turns into Parnassus at 5th Ave.



↑
N



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N
P Parking Garage

↑
N
Nursing Building

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“ Chastain always provides consulting support that is expert, professional, and efficient . . . their service is exemplary. ”

— Biotech Company Manager

“ Chastain matches me with companies where I can use my consulting expertise to the fullest . . . and gives me the support I need to do my best work. ”

— Chastain Consultant

What is the perfect fit? To the company manager, it is finding the right consultant; to the consultant, it is finding the right company. To us, finding the perfect fit is the bottom line.

Why are we so successful at making perfect fits? Because we know the biotech/pharmaceutical industries from the inside . . . as professionals, consultants, and managers. Led by founder Dr. Robert Chastain, our professionals have a wide experience in these industries . . . we know the people, the technologies, and the products.

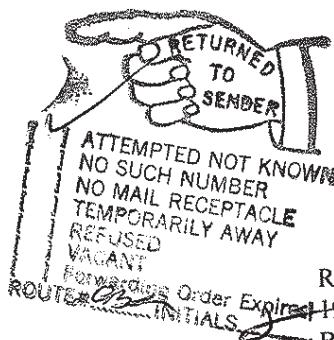
If your work involves statistical programming, statistical analysis, or clinical data management . . . if you are a manager seeking professional expertise with exceptional service . . . if you are an expert consultant who wants the best support in the industry . . . you should call Chastain Research Group . . . today.



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E-Mail chastain@chastain.com □ Internet <http://www.chastain.com>



San Francisco Bay Area Chapter
American Statistical Association
149 Commonwealth Drive
Menlo Park CA 94025



RU-FANG YEH
1921 FRANCISCO ST #7A
BERKELEY, CA 94709



The American Statistical Association

San Francisco Bay Area Chapter

Since 1928

October, 1997

Joint Biostatistics and General Applications Program

"Some Medical Applications of Clustering and Classification Techniques"

Catherine Sugar, Statistics Department, Stanford University

Abstract

My talk will concern the research which I do at the interface of medicine and statistics, primarily computer-intensive and non-parametric statistics. This work, in turn, brings me into contact with some areas of engineering, particularly channel coding and rate-distortion theory. One application concerns the allocation of scarce resources for medical care and associated problems of quantifying *quality of life* of patients in different *health states*. The main statistical approach I have used here has been k-means cluster analysis. The application of clustering to analyzing data from questionnaires, both cross-sectionally and longitudinally in time, have enabled me and the group with which I work to describe health states and the movement of patients among those states simply and powerfully in the contexts of depression and schizophrenia. Furthermore, this work has stimulated research in the gap between conventional statistical clustering and a similar area in engineering which goes by the name *vector quantization*. Another area in which I have worked concerns covariation of amino acids in the protease genes of patients with HIV/AIDS. It is well known that evolution and challenges from therapy both cause the virus to mutate substantially over time. Exactly how this happens is not simple to describe and is a fertile area for statistical inference and modeling. One other area of interest concerns classification as it applies to prognosis for patients with auto-immune diseases of the kidney. Medical interventions are possible here, but they are drastic and best not undertaken except for patients who really need them. On the other hand, for those who do they can be life-saving. Thus, to whom should they be applied? Regularized discriminant functions have served well here, as I shall explain, time permitting. All this work is interdisciplinary and collaborative which is part of its great appeal for me.

Date: Wednesday, October 22, 1997

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

Place: Chiron Corporation, 4560 Horton St., Emeryville

Dinner: 6 PM, place to be announced at talk

Directions: See map.

Open Positions

Biostatistician

Northern California Can-
cer Center

Union City CA

Position for medium sized attractive cancer research org. Provide statistical expertise, analysis and data mgt for designed research studies, generally in areas of prevention or case-control epidemiologic studies. MA in statistics or related discipline; 5 yrs progressively resp exp, health research a plus, SAS + other packages; gd communication skills; competitive salary; employer pd benefits, excellent time off. Fax (510-429-2550) or send resume to Leila L. Colmen, Northern California Cancer Center, P.O. Box 5033, Union City, CA 94587. EOE.

Senior Statistical Analyst Technology Assessment Group

San Francisco CA

Technology Assessment Group (TAG) is a San Francisco-based international health care research and consulting firm with special expertise in the evaluation of the economic and

PRESIDENT
Michael Lock
(408) 954-2583
Michael.Lock@bdis.com

PRESIDENT-ELECT
Ying Lu
(415) 502-4596
ying_lu@rad-macl.ucsf.edu

**VICE-PRESIDENT
GENERAL APPLICATIONS**
Ding Li
(415) 622-6405
ding@crl.com

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BIOSTATISTICS
CAL PROGRAMS**
Ira Malani
(415) 648-1198
irvice@aol.com

TREASURER
Jim Lenihan
(415) 742-0131
jim@sfasa.org

SECRETARY
Ann Kalinowski
(650) 688-7203
sfamk@ail.com

quality-of-life impact of new medical technologies and health conditions.

SENIOR STATISTICAL ANALYST

We currently seek a statistician with 5 years of experience performing data analysis in a research environment to provide and supervise analysis of health care data, write and implement analysis plans, and design SAS code. This position requires a thorough understanding of SAS data step programming and statistical analysis procedures, especially linear models. We require an M.S. or Ph.D. in statistics or biostatistics, experience with health care data, strong SAS skills (SAS/STAT preferred) and excellent written and verbal communication skills with the ability to explain sophisticated statistical methods to non-specialists. Experience analyzing patient survey data, processing medical claims data, and working with large data sets is desirable.

TAG offers competitive salaries and benefits. No phone calls, please. EOE.

Please send cover letter, resume and salary requirement to:
Technology Assessment Group
490 Second Street
Suite 201
San Francisco, CA 94107
Fax: 415/904-4158
e-mail: info@tagsf.com
www: www.taginfo.com

Directions to Chiron:

From SFO/Peninsula:

Take the Bay Bridge to 80N towards Berkeley. When on 80, immediately move to the right and exit on **Powell**.

Turn **RIGHT** at the bottom of the offramp (signal). Go through the next signal (on Christie), over the Amtrack bridge and turn **RIGHT** at the next signal (Hollis). Proceed to 53rd street (next signal intersection) and turn **RIGHT**. Go 1/2 block down and turn **LEFT** into the Chiron parking lot. Enter through the glass front that looks somewhat like a wine barrel. The conference room is immediately inside on the right. The receptionist can direct you.

From Berkeley:

Take University west to the bay frontage road (just past (and parallel to) I80. Turn **LEFT** and go to **Powell**. Turn **LEFT** onto Powell and follow directions from SFO above.

From East Bay: Take appropriate freeway (24W to 580 to 80N or 880 to 580 to 80N) to arrive at **Powell** offramp on 80N and follow directions from SFO above.

Note: When you arrive at Chiron, it is likely that the parking lot will be full owing to ongoing construction. If this is the case, you should either a) park on Hollis or b) park in the lot located just off of Hollis and Powell. It is suggested that you plan to

arrive early in anticipation of parking difficulties.

Advertising Rates

Employment ads

Employment ads *must* describe a *specific* job opportunity: company, location, and job description.

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

\$50

General ads

These ads include general recruitment by employment agencies, consulting firms offering their services, etc.

For one newsletter insertion, *no* insertions on Web page

full newsletter page: \$200

half newsletter page: \$100

quarter newsletter page \$50

eighth newsletter page \$25

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

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

According to our records your membership expired in 1996. To keep receiving this newsletter, you need to pay your annual dues of \$9 (\$3 if student). Send your check made payable to the San Francisco Bay Area Chapter of the American

Statistical Association, to Jim Lenihan, 15 Moonlight Court, South San Francisco, CA 94080.

Moving?

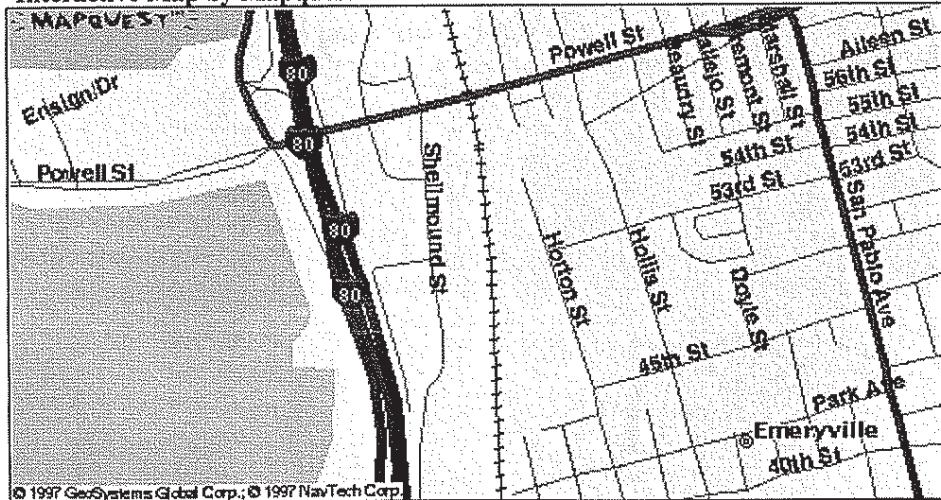
Please send your address change to Ann Kalinowski, e-mail sfamk@fail.com,

phone (650)688-7203, or to her attention at Failure Analysis Associates, 149 Commonwealth Drive, Menlo Park, CA 94025.

Interactive Map by Mapquest



Interactive Map by Mapquest



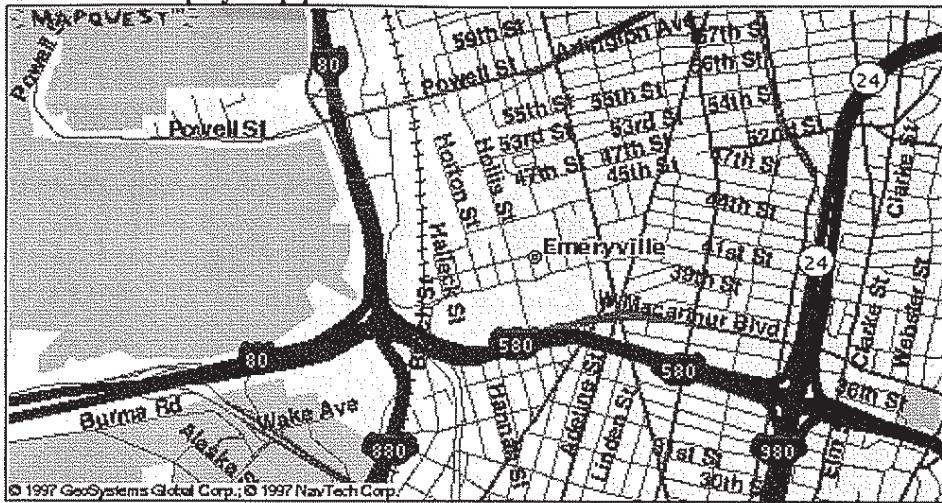
Statistical Association, to Jim Lenihan, 15 Moonlight Court, South San Francisco, CA 94080.

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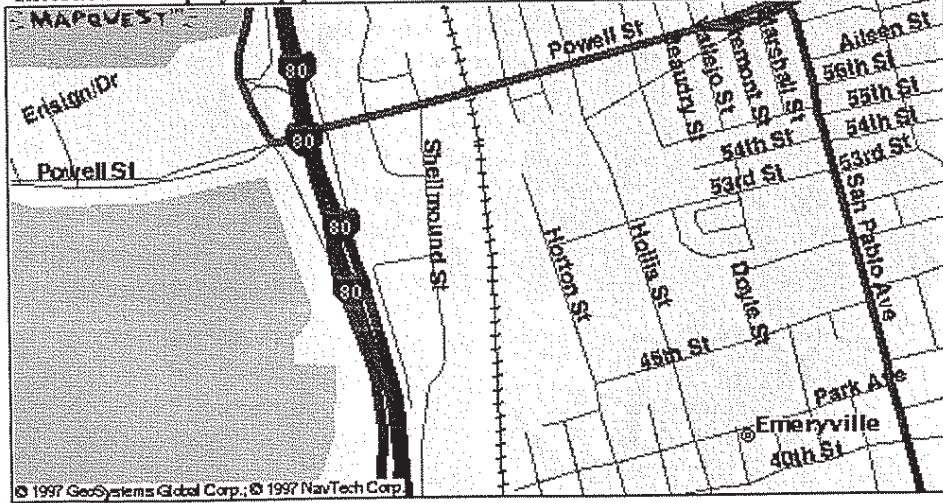
Please send your address change to Ann Kalinowski, e-mail sfamk@fail.com,

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Interactive Map by Mapquest



Interactive Map by Mapquest



Let us help you find the perfect fit.



"Chastain always provides consulting support that is expert, professional, and efficient . . . their service is exemplary."

-- Biotech Company Manager

"Chastain matches me with companies where I can use my consulting expertise to the fullest . . . and gives me the support I need to do my best work."

-- Chastain Consultant

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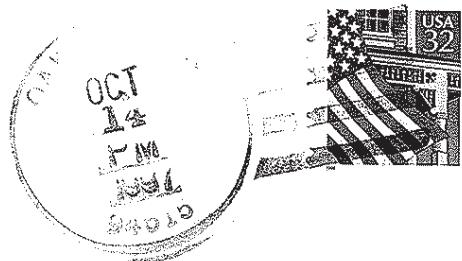
Why are we so successful at making perfect fits? Because we know the biotech/pharmaceutical industries from the inside . . . as professionals, consultants, and managers. Led by founder Dr. Robert Chastain, our professionals have a wide experience in these industries . . . we know the people, the technologies, and the products.

If your work involves statistical programming, statistical analysis, or clinical data management . . . if you are a manager seeking professional expertise with exceptional service . . . if you are an expert consultant who wants the best support in the industry . . . you should call Chastain Research Group . . . today.

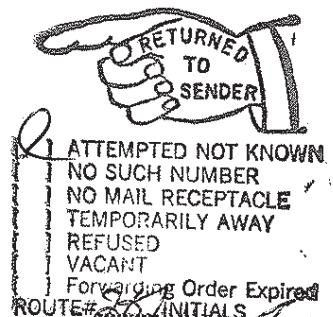


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E-Mail chastain@chastain.com □ Internet <http://www.chastain.com>

San Francisco Bay Area Chapter
American Statistical Association
149 Commonwealth Drive
Menlo Park CA 94025



DR. SHELDON RASHBA *****
1290 HOPKINS AVE #27
BERKELEY, CA 94702





The American Statistical Association

San Francisco Bay Area Chapter

Since 1928

December, 1997

Joint Biostatistics and General Applications Program Panel Discussion and Holiday Party "The Role of Statistics in the Information Age"

Panelists:

- **Dr. Bruce Hoadley, Fair Isaac, San Rafael**
- **Professor Jin Liu, Stanford University, Palo Alto**
- **Professor Bernard Silverman, Stanford University, Palo Alto**
- **Dr. Ai-Chu Wu, Hewlett-Packard, Santa Rosa**

Abstract

This year's panel discussion focuses on the role of statistics in the upcoming information age. Our panel is composed of leading statisticians from both academia and industry in order to provide a diverse range of viewpoints. Audience members are also encouraged to join the discussion.

Date: Thursday, December 11, 1996

Time: 3:45 - 4:00 PM Refreshments
4:00 - 5:00 PM Discussion

Place: Room 1011 Evans Hall, U.C. Berkeley, Berkeley CA

Reception: Professor Mike Tarter will host a reception at his house following the discussion. Maps to Mike's house will be available at the meeting.

Directions: See insert for a map of the UC Berkeley Campus. Parking is available at public lots and meters. Two-hour free parking is available but scarce in the neighborhoods near campus. Campus parking garages require \$3.50 (quarters only).

OPEN POSITIONS: Programmer/Analyst Data Plus Emeryville, CA

Growing payroll services firm seeks highly motivated individual for Programming/Analyst position. This position offers the opportunity to grow with the company in scope and responsibility. The Programmer/Analyst will report directly to the Systems Engineering Manager. Responsibilities include, but are not limited to: developing, modifying, and maintaining system designs; reviewing objectives and assignments with supervisor for accuracy and compliance with standards, and testing/documenting work. Also, write and maintain operator instructions for assigned programs. Applicant should have 2+ years experience. Must be proficient in COBOL, Systems Analysis and Design. Hardware platforms include mini-computers, PC's and LAN's.

Resume to: Data Plus
2200 Powell St., #350
Emeryville CA 94608
Fax: 510-420-2078

PRESIDENT Michael Lock (408) 954-2583 Michael_Lock@bdis.com	PRESIDENT-ELECT Ying Lu (415) 502-4596 ying_lu@rad-mac1.ucsf.edu	VICE-PRESIDENT GENERAL APPLICATIONS Ding Li (415) 622-6405 ding@crl.com	VICE-PRESIDENT BIOSTATISTICAL PROGRAMS Hina Malani (510) 648-1198 statadvice@aol.com	TREASURER Jim Lenihan (415) 742-0131 jim@sfasa.org	SECRETARY Ann Kalinowski (650) 688-7203 sfamk@ail.com
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Senior Biostatistician
Clinical Programmer Analyst
SEQUUS
Pharmaceuticals, Inc.
Menlo Park, CA

SEQUUS Pharmaceuticals, Inc. is a leader in the development, manufacture, and commercialization of liposomal drugs and lipid-based biopharmaceutical products primarily to treat cancer and certain fungal infections. Proud to be among the 2 percent of biotech companies formed during the last 20 years with approved products on the U.S. market, we have continued to build our talented team for further success.

**SENIOR
BIOSTATISTICIAN**

The successful candidates should have a Ph.D. or MS in Biostatistics or Statistics and extensive experience in protocol development and analysis. You will have conducted multi-center clinical trials (experience in cancer clinical trials is a plus), and have a working knowledge of NDA submissions, FDA regulations and the regulatory submission process. A broad knowledge of statistical methods for the analysis of clinical trials (Phase I through IV) is essential, as are excellent communication, organizational, planning and documentation skills.

**CLINICAL
PROGRAMMER
ANALYST**

You will be responsible for the production of data sets, summary tables, listings, and graphics to ensure the accurate implementation of statistical analysis plans. The successful candidate will work with statistical personnel to define analysis assumptions and develop software specifications, as well as compile validation and documentation of all analysis files. A B.S. degree in Computer Science, Mathematics, Statistics or related field and 3-5 years of clinical applications programming experience in SAS are required. In addition to knowledge of clinical trial study designs, you must possess strong written and oral communication skills as well as excellent interpersonal and analytical skills.

To achieve SEQUUS's mission of improving patients' lives, we are building teams and empowering the best talent in our industry, providing a productive professional environment, and rewarding performance linked to the achievement of goals. Please send your resume to:

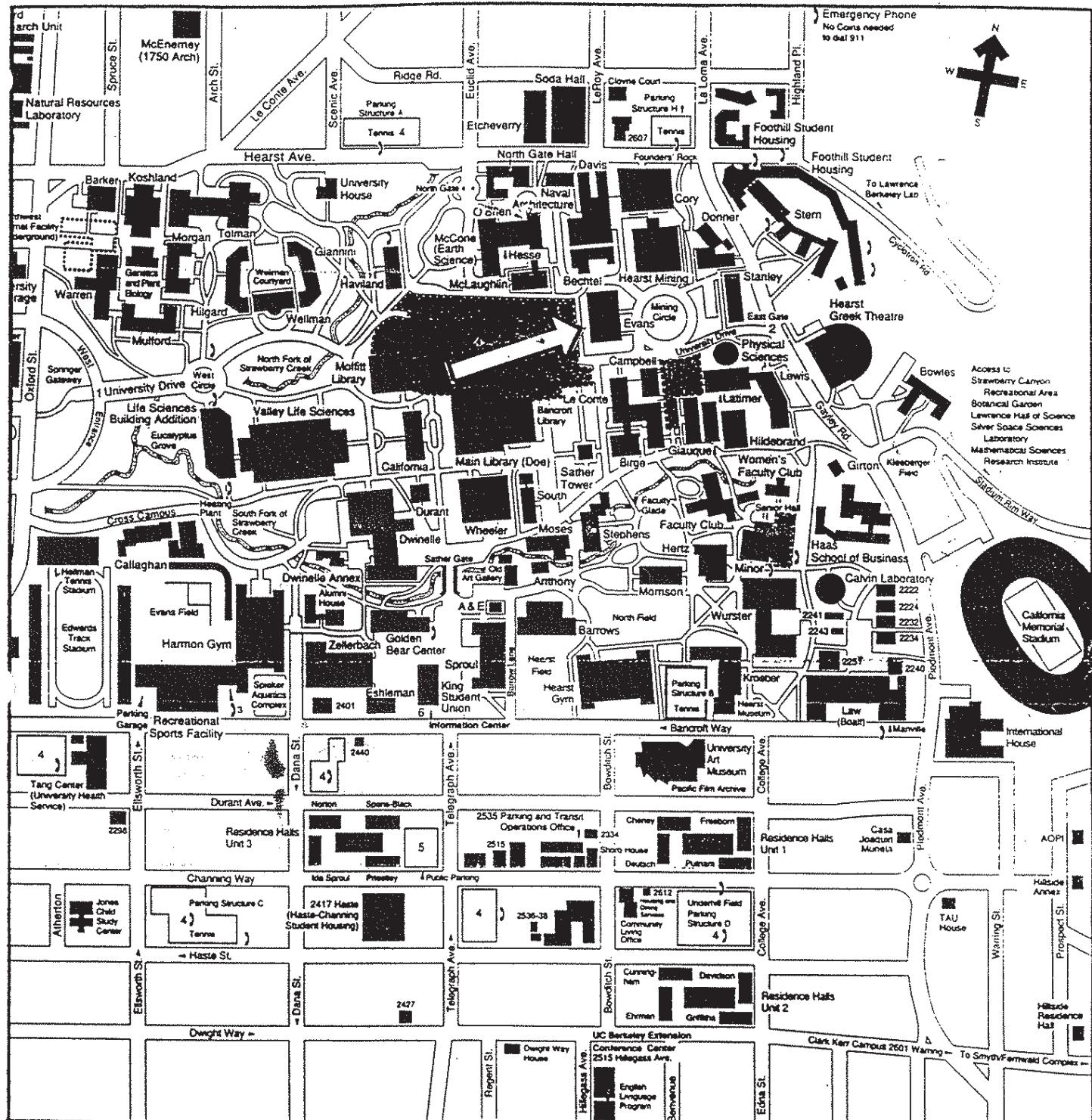
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Professional Staffing
960 Hamilton Court, Menlo Park, CA 94025
fax (650) 463-3124,
or contact us on the WWW at <http://www.sequus.com>, or e-mail to: resumes@sequus.com.

We promote a diverse workforce/ EOE.

ASA 1998 Quality and Productivity Research Conference (QPRC)

The 1998 ASA QPRC co-sponsored by HP and UC Berkeley, will be held at the Hilton Hotel in Santa Rosa, California, May 20 to 22. Ai-Chu Wu and C. S. Cheng are co-chairs. The theme is "collaboration between statisticians and managers, engineers, and policy makers." It will be a mixture of real-world case studies and professional summaries of theoretical methods.

Program highlights are: Welcomes by Richard Levitt, HP, Director of Quality and Peter Bickel, Berkeley, Department of Statistics; Keynote speech "Robust Parameter Design for Product and Process Improvement: An Integrated Study" by Jeff Wu and Dinner speech by Leo Breiman; Sessions on "The Interface of Statistics and System Control Theory, HP Case Studies, Designs for High-Dimensional Problems, Strategies for Variation Reduction, Malcolm-Baldridge Award: The Return on Investment and Data Mining and Massive Data Sets; Short Course on Reliability by Bill Meeker & Luis Escobar; Tour of HP. For details & registration, see <http://www.hp.com/info/qprc/>



From I 80 in Berkeley, take University Avenue east until it ends at the west gate of the campus. Evans Hall, on the east side of the campus, is marked with an arrow in the map above. Limited free and metered parking is available on the residential streets (LeRoy Ave., La Loma Ave., Ridge Rd. and Highland Pl.) north of the campus. Additional metered parking can be found along

Hearst and Oxford Avenues. Additionally, the City of Berkeley operates a meter parking lot at Hearst and Alston, and a parking garage at 2025 Center St. Free campus shuttle buses stop at Evans Hall and numerous other locations around the campus including across from the Berkeley BART station on Shattuck Ave.

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Menlo Park CA 94025



ANN KALINOWSKI
FAILURE ANALYSIS ASSOCIATES
149 COMMONWEALTH DR BOX 3015
MENLO PARK, CA 94025