

中國留美統計協會

Chinese Statistical Association

in

America

通訊錄

暨

會刊

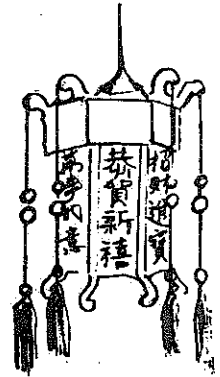
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目錄

工作人員簡介

顧問 刁錦寰、吳達福
 總幹事 齊茂松
 財務 呂金河
 電腦 王榮超
 幹事 蘇郁文、焦淑萍
 高信培(插图)、馮忠秀

- 2 會務報告
- 3 徵求論文
- 4 大陸統計簡訊
- 5 統計之發展與實務
- 20 學府簡介
- 23 博士論文摘要
- 28 喜訊動態
- 29 會員近著
- 31 會員通訊錄



編者的話

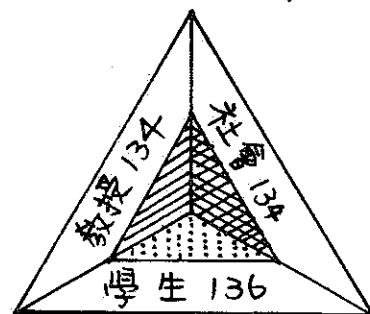
謝謝大家的熱心支持與幫忙！
 敬祝大家有一個成功、愉快的虎年！

會務報告

- 什麼時候該繳會費？就是現在！請填妥回音連同會費寄回，謝謝！
- CSAA 同仁在 1985 年 Las Vegas 的聯誼餐會上決定在 1986 年 Chicago 年會時舉辦一次座談會，將以自由發言方式進行，時間預定在 AUG. 20, 1986 (WED, 5:00 - 7:00PM)，地點將在 Chicago 年會佈告欄公布。座談會主題為“中國統計學人在國外工作問題”。初步擬定程序如下：
 - 如何寫好 Resume——中國人有些什麼困難？
 - 如何找適當的工作及如何 Interview？
如何找 a. 教書 b. 公司 c. 政府的工作？
 - 工作環境問題及種族歧視問題。
a. 教書語言問題 b. 公司工作問題 c. 政府工作問題。
 - 如何增進聯繫及互助？
- 中西部將於 1986 年 5 月在 Madison 舉辦為時一日的討論會，希望藉此能教起各地區有心之會員召集舉辦類似之地區性活動。
- 自 1985 年 7 月至 1986 年 2 月，財務方面細節如下：

收入：		支出：	
結餘	443	簡訊(2)	322
會費	1253	通訊錄	1100
利息	10	郵費	300
合計	1706	合計	1722

總結：- 16
- 本會目前共有會員 404 人，職位之分布如下：



徵求論文

中華民國七十五年國際統計學術研討會

大會主題：統計——理論及應用之未來導向

日期：一九八六年八月三日至五日

地點：台北市

主辦單位：

- 中國統計學社
- 行政院主計處
- 中央研究院統計研究所籌備處
- 中華經濟研究院

為促進統計學術之發展，敬邀您就下列要目提供論文（中文或英文）共襄盛舉。論文寄送：
 · 三百字以上之摘要請於一九八六年四月廿日前送達
 · 論文截止日期：一九八六年六月十日（報名表隨附）

- | | |
|-------------|--|
| 1. 統計估計 | 1. STATISTICAL INFERENCE |
| 2. 抽樣理論 | 2. SAMPLE SURVEYS |
| 3. 逐次分析 | 3. SEQUENTIAL ANALYSIS |
| 4. 貝氏方法 | 4. BAYESIAN METHODS |
| 5. 分配理論 | 5. DISTRIBUTION THEORY |
| 6. 隨機過程 | 6. STOCHASTIC PROCESSES |
| 7. 時間序列 | 7. TIME SERIES |
| 8. 多變量分析 | 8. MULTIVARIATE ANALYSIS |
| 9. 線型及非線型模型 | 9. LINEAR AND NONLINEAR MODELS |
| 10. 統計計算 | 10. STATISTICAL COMPUTING |
| 11. 統計圖表分析法 | 11. GRAPHICAL METHODS FOR STATISTICAL ANALYSIS |
| 12. 統計模擬方法 | 12. STATISTICAL SIMULATION |
| 13. 生物統計 | 13. BIostatISTICS |
| 14. 人口統計 | 14. DEMOGRAPHICS |
| 15. 社會指標統計 | 15. SOCIAL INDICATORS |
| 16. 計量經濟 | 16. ECONOMETRICS |
| 17. 可靠度估計 | 17. RELIABILITY ASSESSMENT |
| 18. 統計教育 | 18. STATISTICS EDUCATION |
| 19. 政府統計 | 19. OFFICIAL STATISTICS |

大陸統計簡訊

· 馬達時 ·

1. 中日統計討論會 (China-Japan Symposium on Statistics) 於1985年11月7~12日在北京大學舉行：這是在中國舉行的第一次大型國際數理統計學術會議。中方組織委員會主席為北京大學江澤培教授，日方組織委員會主席為九州大學淺野長一郎教授。會議共宣讀論文107篇(日方30篇)。小組會議分九組舉行：(1)試驗設計和質量管理(2)多元分析(3)時間序列(4)估計和假設檢驗(5)抽樣調查和可靠性(6)計算統計(7)數據分析(8)生物統計和社會統計(9)各種應用(10篇)，會前已將論文的詳細英文摘要匯編出版。第二屆中日統計討論會預定於86年11月在日本福岡市九州大學舉行。
- a. 中國概率統計學會所屬刊物“應用概率統計”(Chinese Journal of Applied Probability & Statistics)已於85年9月創刊，主編為江澤培(北京大學，全國概率統計學會理事長)，副主編為陳希孺(中國科技大學合肥)，茹詩松(華東師範大學上海)，胡迪鶴(武漢大學)。第一期刊登學術論文7篇，綜合報告1篇，應用簡報5篇，學術活動消息6則。此外該刊收集了全國概率統計方面全部博士碩士名單及論文題目(有英譯稿)，此期只刊登了前一半。此雜誌為季刊，由華東師範大學出版。欲訂購者可直接寫信至“北京2820信箱，中國國際圖書貿易公司”。中國另一學術組織“中國現場統計研究會”早於1982年就創辦雙月刊雜誌“數理統計與管理”(Applications of Statistics & Management Science)，該刊更著重於統計方法的研究及普及，很受工程技術人員和統計工作者歡迎。
3. 為了使統計方法的應用標準化，國家標準局於1981年11月正式組建了“全國統計方法應用標準化技術委員會”，除了制定修正貫徹解釋各項標準外，還負責由國際標準化組織的第六技術委員會(ISO/TC69)進行經常聯繫。主任委員成平，顧問有王春仁、劉源、張張里干。該委員會下設七個分技術委員會，其中前六個與ISO/TC69/SCL-SC6相對應。它們分別負責：(1)術語符號和統計用表(2)數據的統計處理和解釋(3)標準化中統計方法應用(4)質量管理中統計方法應用(5)抽樣檢查(6)精度數據之應用(7)可靠性統計方法。截至84年已發佈27項，包括Normal, χ^2 , t, F, Binomial, Poisson 分布數值表；Binomial, Poisson 分布參數的估計，區間估計和檢驗；一批質量控制圖；正態性檢驗；正態樣本異常值(Outlier)的判斷和處理等。
4. 近兩年來中國國內有五所大學成立了統計系：北京大學的概統系，上海復旦大學的統計運籌系，華東師範大學的數理統計系，南開大學的統計信息系，武漢大學統計系。這五個統計系都是從原有的數學系中分出來的。此外在西安正在籌建統計學院，下設數理統計、計算機科學及人口統計等五個系。

統計之發展與實務

貝爾研究所的統計研究單位

· 李昭勝 ·

在貝爾研究所工作的統計學者很多，分散在公司各部門。正式列名在統計研究單位的則只有二十個人，分為兩小組，組長分別是 C. Mallows 和 J. Chambers。前者是頗有名的統計理論家，涉獵很廣，數學，尤其是可能率方面，造詣很深。早年較著名的貢獻有 ballot problem 和 C_p Statistics 等。近來則較集中於 data analysis 方面的研究。後者專門做統計軟件，著有 Computational Methods for Data Analysis 一書。其他較有名的研究員有 J. Kruskal, W. Cleveland 和 Y. Vardi 等。

貝爾的統計研究方向受 J. Tukey (今年剛從貝爾退休) 影響很深，目前的重點是 robust data analysis, graphical methods 和 statistical computing。除了學術上的研究外，約有一半的任務是分析公司的業務統計數據。中國人在這兩個單位中工作過的有李譚靜如(現任奧克拉荷馬大學教授) 陳蕙如及筆者。筆者十年前已轉到離散數學小組，所以陳氏是碩果僅存者。明年這兩個單位可能有一、二個名額，競爭將會非常激烈。

統計研究小組屬於數學統計研究部門，因此統計學家和數學家活動在一起。一個优点是雙方的訊息交流非常方便有效，另一個是人員亦可交流。像筆者在統計小組時，認識了一些離散數學的朋友，開始做一些他們的問題，就很順理成章的轉了一個組，在其他公司可能沒有如此的容易也不見得會受到鼓勵。

有意思到 AT&T 工作的統計同仁，不一定要到貝爾研究所；有意思到貝爾研究所的，也不要到研究部門。筆者只是就自己熟悉的報導，希望不要錯誤的縮小了大家的眼光。

國家健康研究院

· 李守華 · 蔡嘉永 ·

國家健康研究院屬於美國健康及服務部 (Dept. of Health & Human Services)，是個醫學研究機構：共包括十一個不同研究所 (Institute)。各研究所專精研究某些疾病 (如癌症、心臟、肺等)。除此十一個不同研究所外還包括國家醫學圖書館及六個其他研究支持部門。1985年全研究院經費約五億美元，不過大部分經費均是外撥支持學校及私人機構作醫學研究，只有小部分用於內部醫學研究。全研究院共有職員將近一萬伍仟人。

國家健康研究院內最少有十五個統計部門分散於各研究單位。上述十一個不同研究所中各有自備統計部門。統計人員分散各研究單位以便瞭解不同疾病的成因與特色，這樣可與醫生更密切配合，統計人員也有責任對於所分析的疾病具備一些基本瞭解。

統計分析在國家健康研究院的工作中相當受重視，任何大小臨床實驗 (clinical trials) 從設計、視察、資料分析到寫研究報告，各階段均有統計人員介入。除此外，統計學家也可以自行研究統計方法，所以成為正式雇員後流動性很小，大部分的人均願長留下來。有意求職者必須向每一個研究所的統計部門負責人直接申請聯絡。

· 徐建萍 ·

美國聯邦政府僱用為數不少的統計人員，醫藥方面的統計工作主要集中在 Dept. of Health & Human Services，例如 National Institutes of Health，National Center for Health Statistics，Food & Drug Administration 等。各部門的統計工作性質頗不相同，我希望將我在 FDA, Center for Drugs & Biologics 的工作經驗稍作介紹。

FDA 審查管制食品、藥物、生物製品、medical devices、radiological health 及動物用藥品。FDA 不是一個研究機構，這裏的統計工作也不能光談理論，必須針對實際問題提出適當的建議，給負責決策的人員做參考。

FDA 藥物部門擁有二十名左右的統計人員，大多具有博士學位。以工作性質而言可分兩組：一組專司審閱藥廠所呈的 clinical trials 的報告，非 clinical trials 的統計問題則歸另一組處理，比如 animal carcinogenicity studies，biopharmaceutical studies，bioequivalence 及 postmarketing surveillance 方面的 epidemiological studies。

Center for Drugs & Biologics 的統計部門乃十多年前所創，成員屢有流動，但一向維持相當水準，在 FDA 藥品方面的工作有出色的貢獻。由於工作性質的特別和繁重的程度，在數年之內就可以學到許多寶貴的經驗，有興趣者不妨留心這裏的就業機會。

淺談臺灣臨床實驗現況及 一部分我們的工作

· 陳瑾英 ·

臨床實驗已成為先進國家在醫學研究上之新潮流，而在國內尚屬起步階段。由於臨床實驗是一種整合科學，必須在醫療、統計及資訊人員密切合作下，貢獻其專業知識互相溝通才能達到其研究目的。尤其是多中心之臨床實驗 (Multicenter clinical trial) 的大型研究中，最重者，必須摒除各自為政的觀念，大家同力完成。台灣的醫學界正朝此方向努力。根據瞭解，目前台灣所謂的臨床實驗多屬第三期實驗 (Phase III trial)，偏於根據國外已有之計畫書而以國人為對象，用以瞭解治療方式對國人特有體質是否有差異等。至於第一及第二期之實驗 (Phase I & II trial) 可以說仍未所聞。因為台灣之藥廠多非屬自己生產之性質，而且臨床實驗之觀念更是闕如，自然不會有這類研究。近聞國內將成立有菌疫苗生產之藥廠，卻仍未聞對其產品將做有菌之前二期臨床實驗，以瞭解其產品的安全性與有效性，實令人引以為憂。

至於能夠完全根據上述臨床實驗精神，且以台灣特殊性之疾病為研究對象的臨床實驗實在太少。在榮總原有一有菌頭癌之臨床實驗，可以說是一個較有週詳規畫的臨床研究。然而這種較為稀有的癌症須要長期追蹤的研究，所面對的困難、問題實在太多，若無醫療人員對研究的執著，實在難以繼續，據聞此一研究即有瀕臨流產之虞，頗為可惜。

另外，我們參與的B型肝炎小劑量之臨床研究可以說是首次有統計人員參與之設計問題的多重醫療中心的臨床實驗；其擬定書(Protocol)完全由國人根據臨床實驗的原則長期討論製訂而成。

B型肝炎之傳染有其台灣特有性質。在台灣人口中約有百分之十至二十歲以前曾感染過B型肝炎，由許多研究發現B型肝炎肝硬化及肝癌有很強之相關性。而在年齡愈小，後期轉化為肝硬化及肝癌的可能性愈高。而在台灣一般的B型肝炎感染多半來自母親之垂直感染，而這種感染型中約有百分之四十為帶原者；同樣的，年齡愈小感染成帶原者之可能愈大。所謂帶原者即感染到B型肝炎後六個月內仍未形成抗體或形成之抗體量太少，兩者於B型肝炎抗原反應之檢驗中均呈陽性反應者，這即為B型肝炎傳染之主要來源。台灣約有三百萬B型肝炎表面抗原帶原者，因此如何防治其傳染乃為目前衛生機構最主要之工作。衛生署於1983年實施B型肝炎疫苗全面防治計畫，限於經費，首由高危險群嬰兒開始，逐年推廣到一般嬰兒、幼兒、學童，以至成人。

至於我們所參與的B型肝炎小劑量臨床實驗，目的即在探討是否以低於目前注射之劑量仍可維持一定的效價，作為醫學上之研究及節約經費之參考。於此臨床實驗中，我們建議了有抽樣的方法、樣本數的決定及有關統計方面的考慮，並提供了隨機抽樣的方法及程式，衛生署方面做了不少的配合。由於此研究的結果須由五次抽血檢驗而得到，這對國人惜血的觀念是件相當艱辛的執行工作。因此對於長期追蹤的流失率(loss rate)亦必須考慮，而樣本的決定更必須視實驗情況做合理的調整估計。在經過長達一年半的計劃，此為期五年之臨床實驗即將開始，我們希望此研究能克服許多困難得以繼續以致完成。

由於臨床實驗在台灣已普遍被重視，統計所將義務性的舉辦一個為期四週，一週兩次之醫學統計在臨床實驗應用的研討會，期望能使台灣醫學工作人員能嚴謹的進行臨床實驗之研究。

統計在工商界的發展與實務

· 黃光明 ·

我教了九年書之後才於1980年到Murray Hill的貝爾公司(Bell Labs)做研究，目前在貝爾通訊研究公司(Bell Communication Research—簡稱Bellcore)當統計研究員，對於統計在工商業的發展與實務知道的很有限，是以個人的觀感難免有偏差。

學統計的人在原來的貝爾系統(Bell System)以及在目前的AT&T Bell Labs 和 Bellcore 散佈在很多不同的部門。主要的是在統計方法與資料分析，市場分析，商業需求，工程應用，品質管制(Quality Control) 和品質保證(Quality Assurance)等等。大部分的統計人員幾乎全部的時間與各種資料為伍，能夠善用電子計算機是個很大的長處。有機會做些統計方法與理論的人不多，可以說是公司裏的天之驕子；在公司外頭，這些少數人就是較有知名度的同仁。話又說回來，要想在公司裏有作為，對公司有真正貢獻，又能夠當高級主管的人，或許較難成為統計的名家。

學統計的人在AT&T Bell Labs 和 Bellcore 可以找到很多有趣的問題。對這些問題能夠有多深入的探討，端賴所屬單位的性質與主管的作風。在公司做事，頂頭上司對一個人的感受有很大的影響(比學校的系主任對教授的影響力有過之而無不及)。不過，在公司做事，更換單位的机会較大。若對某個單位深感不滿，往往可以他移。當然工作性質不致相同，伸縮性(flexibility)相當重要。

總而言之，在現今的電子計算機時代，資料收集較易，統計的應用日增，統計對公司決策益形重要。相信統計人才在工商業界的需求會更增加。

一位海洋漁類生物統計者的自述

· 羅黔輝 ·

每當孩子們的朋友問及我的職業時，我回答說我是教海漁的，他們會以好奇的口吻再問，海洋這麼大，您怎麼教呢？我回答說：是啊！在海上捕漁是一件辛苦的事，教漁就更難了。因此須要有專門訓練的人員去教，同時如果我們想要了解海裏漁類的狀況，我們就非教不可。

說到我自己進入統計並應用到海洋漁類，實在是一連串的巧合：十年前我從台大商學系畢業，遠渡重洋來到美國西海岸的俄立崗州立大學，當時統計課程在中國同學中是最受歡迎的一門課，我跟著大家也選了統計入門，一學期下來我對統計大感興趣，就毅然決然的從商學系轉到統計系。拿到學位後，我進入了加州漁獵部的一個海洋漁業試驗所 (Menlo Park, CA)，開始了我的教漁生涯。

我從事海洋漁業統計至今已有十三年了，統計學和海洋漁類生物學都是較年輕的科學，統計學應用到海漁生物更是近四、五十年的事。一般生物學者對數學不感興趣，對於統計更是抱著近鬼神之態度（近十年情形較佳，因為年輕的生物學者多半有此數學統計的根基）。在我週旋於漁類生物學者之間的十幾年中，我的工作苦樂皆有，現在我將苦樂例舉簡述如下：

回想在十三年中，我用統計分析方法為加州海洋漁業解決了許多學術上和管理上的問題。例如為加州決定了海蝦最小蝦網密度 (mesh size)，以取代了當時的捕獲限量制度 (quota system)。為了協助生物學者對統計的認識，我撰寫了一本漁業生物統計手冊，其中的例題和習題皆取自漁業資料，此手冊甚受加州漁業生物界的歡迎。

1976年我加入了商務部 (Department of Commerce) 的西南漁業中心，此中心位於 San Diego，負責研究和管理美國西南海岸三海哩到二百海哩之間的各種海類哺乳類和海洋環境。我的主要任務是作海洋哺乳動物的生物統計，我設計了海鯨 (porpoise) 死亡總量的估計程序和監察制度 (monitoring system)，這些海鯨常與鯨魚游在一起，一些海鯨因遭網圍，不能出水呼吸而淹死。如今海鯨死亡量已大減，滿足了環境保護者的要求。

1980年我調到中心裏的另外一個部門，專門研究加州海流 (California current) 漁類和海洋學的。我負責估計各種漁類的早期生活階段 (early life history) 的各項生理參數 (biological parameters)。這些生理參數一方面增進我們對漁生物上的了解，同時也用於漁總量 (Biomass) 的估計，漁總量是用來決定漁民捕獲最高限量。從1986年起，我們將研究加州底棲漁類，這類漁類的生理參數資料都甚缺乏，對我而言，這又是一個統計應用的新範圍。

除了上述實際漁類問題解決之外，海洋漁生統計者還享有近至加州沿海，遠至夏威夷和南美沿海的出海機會。雖然我的工作範圍不包括出海，但是為要了解海上實際收集資料的情形，我在時間許可下總是自告奮勇的跟生物學者們一起上船，在預定的站上採取標本，再帶回所中分類、登記、資料處理，最後進行統計分析。

我的另外一個責任是幫助生物學者解決他們在統計上的難題。當我看到他們對統計的認識增加，心理感到無限快慰，他們給予我的讚賞更增加了我對海漁生物統計的興趣。例如我的上司是一位精明的有機生物學家，每逢他面臨一個新的研究計劃，他總要和我商榷一番，由於我們學識背景不同，見解不一，我的看法常常開啓他的眼界，使他覺得統計是海漁研究中不可缺少的一門學問。

然而，海漁生物統計工作是一個孤單的職位，這是由於漁業生物是生物學中的少數，漁生統計是統計學的少數。在西南漁業中心的三百研究人員中，統計位置只有八位，並分散於不同工作部門，平時很少來往。我為了增加與統計界的聯繫，儘量地參加附近大學的統計學術會 (seminar) 和定期的統計學會。但近幾年來，聯邦政府對研究經費削減，參加學術會議的經費縮緊，今年在 Las Vegas 的統計年會，我是自費去的。

統計職位在一一般漁業研究機構多是參謀地位，學統計的很難成為機關中的中堅領導人物，雖然我本人不是野心勃勃，但是機關的編制總使我有窒息的感覺。此外，作統計就須有報告文獻，這又是一件絞盡腦汁的事。雖然未美已廿年，英文說講書寫較剛未美時進步，但是作研究報告時仍有事倍功半之感。當年在研究院讀書時，未曾料到出了校門一半時間是在作英文作文。因此我奉勸在學同學們不妨在英文寫作上下些功夫，單靠數學方程式是不夠的。



統計在漁業生物上的應用在近年來雖日漸器重(The American Statistician Vol39 No 4 Part 2 Nov. 1985)，但目前統計理論和方法尚不夠使用。一般生物統計多偏重醫學方面的應用，有些不能直接轉嫁到海洋漁業研究；而且海洋漁業有它的特徵，例如：抽樣調查不是一件簡單的事，第一，須決定漁群活動的範圍；第二，須決定抽樣單位(sampling unit)的大小；第三，Random sample 是不可能(不實際)的，一般均用 Systematic Sampling with Fixed Stations 等等。因此我們須呼籲對大自然有興趣的統計學家們參加我們的陣容。針對海洋漁業生物的特徵，設立有效的資料收集制度，用實際資料來探測各種假設(Hypothesis)，以增進對海洋漁業與其環境的徹底了解，設立合理的資源管理制度來維繫海中漁類的延續，並造福人群。

統計在醫藥界的發展與實務

· 陳 達 ·

雖然目前科學在極速的進步中，但對於人類身體生理病理的了解還是非常有限。對於一般疾病的發生原因、發展過程都不是很清楚，由於影響的因素可能很多，在摸索研究的階段中，統計是不可缺的工具。對醫學的研究方法大概可以分成兩種：一種是觀察性，一種是實驗性。對於疾病發生原因的研究大部分是觀察性，是屬於流行病學(epidemiology)的範圍，這方面的研究，拿人來做實驗是不道德的。對於疾病的治療或預防的研究，大部分是實驗性，是屬於臨床實驗(clinical trials)的範圍，這方面的研究，很多都是用隨機(randomization)的方法將治療或預防方法或藥物用在人身上。當然，對動物的研究實驗也可以增加對人體的了解，所以常常很多研究都是由動物開始。另外在試管中培養細胞，也可以做很多的實驗，可以讓我們能了解一些基礎的原理或者預測應用到動物或人類身體的可能結果。在這許多方面的研究，統計都可以有很重要的貢獻。

我自己在過去的十年間，在藥廠及醫學研究中心都從事過統計研究的工作，現在將自己的心得跟大家分享一下。我覺得如果要進入醫藥統計工作，那就應該學習生物學、人體生理及解剖學、藥理學方面的知識。可能的話，在研究所時就可以去選，不然，在開始工作之後，可

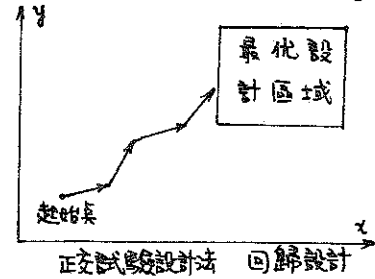
以晚上到學校去選課。另外對英文的說話及寫作能力要特別加強，這些也可以去選課來幫助自己。對於統計本身，也要定時閱讀 Biometrics, Biometrika, Controlled Clinical Trials, Statistics in Medicine 及 American Journal of Epidemiology 等雜誌，這樣才可以對新的統計方法有所了解，可以應用在工作上。另外對於電腦也要很熟，SAS, SPSS 及 BMDP 等程式都能夠運用；對於 Data Base System 的發展也要加以注意。

我們中國的統計人才在美國醫藥界非常多，不少在學術地位或在公司的管理地位已經相當的高。我們從小學就較注重數學的演算，所以進入醫藥統計還算相當容易。未來醫藥統計人才的需求，還是會不斷的增加，雖然增加率已經緩和下來。假如一個人對科學的本身有較大的興趣，從事統計的工作可能比從事電腦的工作更為理想；因為一位生物統計師(biostatistician)不只是數據分析家(data analyst)，而最重要的是做個共同研究專家(collaborating scientist)。統計的內容，主要在於設計實驗、收集數據、然後考慮證據。對於醫學的研究，我們還是要拿出證據來才能把研究結果應用在人身上，統計可以告訴我們證據的可靠性是怎樣。所以統計在研究的工作上是相當受重視的。雖然有時真相並不會被人歡迎，但研究統計或從事統計工作是一件很有價值，很有挑戰性的職業。



，結論總是不變的，他完全相信了正交試驗設計法。另一位工程師說：“我的數據是花幾千元做的試驗得來的，極為珍貴的，再用一些錢來處理數據也是值得的”他希望能用更好的統計方法來處理數據、分析誤差的干擾程度和交互作用的大小，充分發揮数理統計的威力，把數據中有用的信息都提取出來。

正交試驗設計法的使用會受到正交表的限制，而回歸設計(Regression Design, Response Surface Methodology)的限制就少多了。譬如因子有水平數的增加不會使試驗次數增加，而且還可建立回歸模型。由於這些原因，華東師範大學數理統計系的教師們首先把回歸設計引入並加以推廣研究，提出了 p 元 d 次回歸旋轉設計的必要條件，並改變了正交回歸設計的計算方法。隨著正交試驗設計法的推廣，回歸設計也在逐漸普及中；現已在冶金、橡膠、化工、農業等行業中獲得一些成功實例。譬如在合成橡膠設計中，要尋找五個因子的最佳搭配，使用了二次正交回歸設計，獲得八個指標的回歸方程組，最後找到了同時滿足八個約束條件的最佳搭配。大家的實踐以為，回歸設計要在尋找到因子水平的最優區域之後使用，效果特別顯著。因此對一項試驗任務需要有不少的先驗信息，而正交試驗設計法在這方面的要求相對少一些。我們常用正交試驗設計法來尋找因子水平的最優設計區域，然後在此區域上使用回歸設計，此種各取長短的想法在實際應用中獲得了成功。

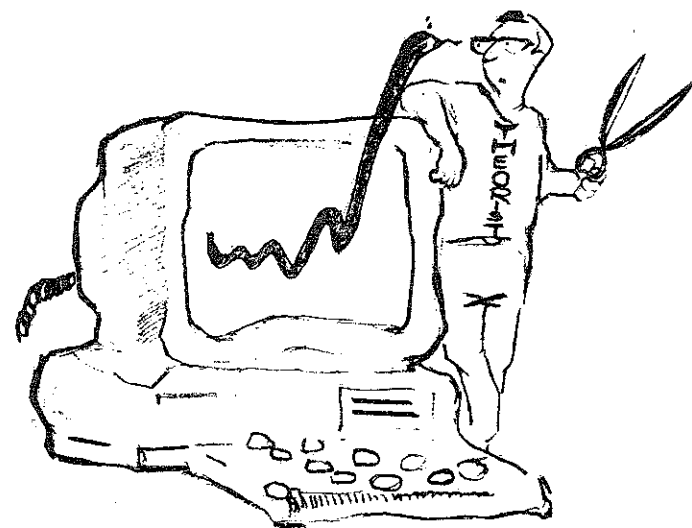


八十年代初，劉璋溫教授首先注意到田口玄一教授提出的三次設計(即線外質量管理 Off-Line Quality Control)，並以“產品開發設計質量管理”為題編寫了講義，在上海市第一機電工業局舉辦的講座上進行講授，之後，田口教授也多次來華講學。這一設計思想和方法立即引起了數理統計工作者和工程師們的興趣，並在實際中付諸應用，先後在電路、汽車、鍋爐、光學及兵器設計中獲得了成功。而推廣正交試驗設計法一樣，張里干教授在推廣三次設計中做了大量工作。最近數年中，他集中研究如何把這些有用的統計方法在中國普及推廣，形成經濟效果，並收集一些實例彙編出版。《数理統計与管理》雜誌也經常刊登這方面的應用實例，以滾雪球的方式把這些統計方法推廣開來。

伴隨著三次設計的应用，討論也展開了，主要集中在二個問題上：(1) 信噪比(S-N ratio)是否具有普遍使用的價值？(2) 內表(Inner Array)中的交互作用是否要考察？田口教授早在1957年在其《試驗設計法》中提出使用信噪比的概念，爾後20多年來，田口教授和其他人的努力使得信噪比可當作一種特徵值來表現動態特性，進行數據分析，特別在參數設計(Parameter Design)中用來追求穩定性好的設計，發揮了較好的作用。但不少人的實踐感到信噪比不是唯一最好的度量產品穩定性的指標，應根據實際情況選用各種指標，已成功使用過的有下列幾種：(1) 均方差 $(\sigma_i - \mu)^2/n$ 其中 σ_i 是外表(Outer Array)指標， μ 是產品質量指標， n 是外表的試驗次數；(2) 偏差平方和 $(\sigma_i - \mu)^2/n-1$ ，其中 μ 是外表指標的平均值；(3) 最大絕對偏差 $\text{Max}_{1 \leq i \leq n} |\sigma_i - \mu|$ 。另外，田口教授在其三次設計的著作中，均不考察交互作用，但為了減少交互作用干擾選優，盡量使用 L_{12} , L_{16} , L_{24} 等正交表，他認為這類表有個特長，即任意二列的交互作用基本上均勻分散在全部列中。我們的實踐感到田口教授這一措施並不能使主效應分析更有效些，問題還是照舊存在，需要進一步研究，能否經過數據變換來消除交互作用干擾是另一個值得研究的問題。

(本文是在George Box家的Monday Night Beer and Statistics上的報告整理而成)

(本文作者茆詩松教授任教於上海華東師範大學，馬逢時教授任教於天津大學，二位教授目前正在UW-Madison訪問。)



統計在司法上之應用

· 王嘉珩 ·

華盛頓政府統計人員多如牛毛，聚集於國家人。口普查局、勞工統計局等機關。司法部攤派的“牛毛”只有寥寥凡毫，多半統計研究之需要在門外求賢取才。專業用統計資料的搜集（例如全國罪情調查）因需用全套專業人馬，由國家普查局代辦。法庭案件專用統計資料，課題因事而異，由外聘專家顧問解決。

司法部反托處有律師二百餘人，經濟學者四十人，數學統計學者一人。此人數之懸殊比例並不反映統計技術應用之欠缺，恰巧相反，經濟學者大多有統計知識，所以統計技術之運用有如家常便飯，無孔不入。

反托處之主要責務為：

- (1) 反壟斷——工商企業不得過於集中，需要留有競爭的餘地。同行公司要合併，須經司法部（或聯邦貿易委員會）審核通過。
- (2) 反勾結——同行之企業間不能溝通維持和抬高貨價，違法者將按刑事法被訴訟。此類罪案除由上而下調查發現外，百姓可由下而上檢舉破案。

在貫徹以上兩事務時，統計之運用有下列几項

- (1) 資料之精簡及分析：因反托處大部分案件都涉及經濟資料，進出資料數量龐大，精簡總結和電腦處理是相當普遍。
- (2) 數學經濟研究：主要研究对象是企業組織學，價格論，經濟集中及利潤之關係。
- (3) 法律統計：統計證據在法庭運用目的是供法官或陪審員參考，一方面要合乎法律標準，及時而準確；另一方面要深入淺出，淺入淺出，並要經得對方之批判及反駁。如對方提供資料，則需設法反駁，分毫不讓。

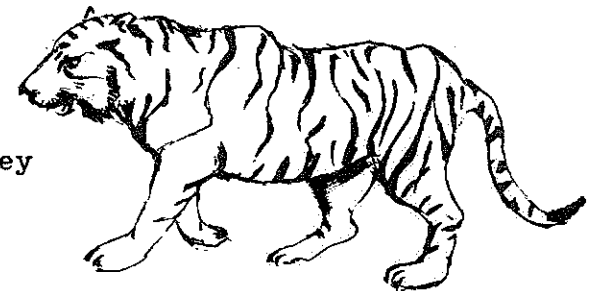
(4) 經濟統計：在經濟資料之研究分析時，經濟統計的基礎理論方法，如迴應法、時間序列等得以普通運用。較時髦的方法（如提靴自拔法）亦常有人問津。但大致未說重矣在運用，不在統計理論。

(5) 抽樣調查：經濟資料，如市場資料之類，不足時需用調查方法搜集。質問表及抽樣法之設計都考慮到潛在之法庭考驗。

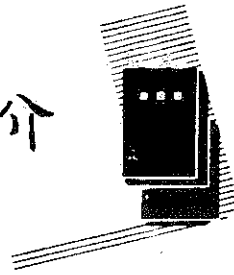
總之，就反托處或一般經濟調整機關未說，統計人才之運用是為經濟研究服務。業務上以經濟為主，統計為次；功能上以經濟為綱，統計為器。有興趣在政府或私家經濟研究機構就業者，經濟及統計兩者皆攻，有備無患也。

國家人口普查局
 勞工統計局
 全國罪情調查
 反托處
 企業合併
 維持貨價
 資料精簡分析
 企業組織學
 價格論
 集中及利潤
 法律統計
 反駁
 經濟統計
 迴應法
 時間序列
 提靴自拔法
 抽樣調查
 質問表

Census Bureau
 Bureau of Labor Statistics
 National Crime Survey
 Antitrust Division
 Merger
 Price Fixing
 Data reduction & Analysis
 Industrial Organization
 Price Theory
 Concentration & Profit
 Legal Statistics
 Rebuttal
 Econometrics
 Regression
 Time Series
 Bootstrap
 Sampling Survey
 Questionnaire



學府簡介



IOWA STATE UNIVERSITY

· 林宗華 ·

愛荷華州大 (ISU) 統計系目前有三十餘位教授，知名者不少；其中獲選為 ASA Fellow 的教授及其研究範圍為 C.P.Cox (生物統計)，H.T.David (作業研究)，H.A.David (順序統計量)，O.Kempthorne (實驗設計)，W.A.Fuller (時間序列，抽樣理論)，D.A.Harville (綫性模式)，W.J.Kennedy (統計計算)，W.Q.Meeker (工業統計)，及 E.Pollak (遺傳統計)。

系上有研究生約 100 人，大部分均有獎助學金。一般而言，不是美籍學生很難在第一學期得到補助，但已在美境獲得碩士學位者例外。獎助學金種類除助教獎學金外，尚有許多研究助理名額來自下列四個小組：(1) 農業實驗室，(2) 測量小組，(3) 計算小組，及 (4) 其他。這些工作機會提供學生良好的學習環境，增加統計實務的磨練，對進一步瞭解統計理論及日後尋找職業均有助益。

系上提供碩士和博士兩種學位：

- (1) 碩士：
要求 30 學分，通過基本科目筆試及撰寫論文。筆試科目及所使用教科書為統計方法 (Snedecor & Cochran)，綫性模式 (Searle) 及機率統計理論 (Hogg & Craig)，一般學生以兩年取得學位。
- (2) 博士：
要求 72 學分 (碩士學分可包括在內)，通過資格考筆試、口試及撰寫論文。筆試分三部分：(1) 基本理論科目：綫性模式 (Searle)，機率論 (Chung)，及統計理論 (Lehmann)；(2) 自選五科其他研究所課程；(3) 綜合測驗：兩套資料分析及一份理論題。(1) 及 (2) 係以兩天完成的課堂考試，(3) 則有一週時間答題。修業期因人而異，短則三年，長則六年。

畢業學生就業狀況普遍良好。碩士學位尤其受工商界歡迎；博士學位則依個人興趣，或進入實業界，或任教職，均無特殊困難。1983-84 年度共授有 23 位碩士學位，9 位博士學位。

喬治亞大學統計學系提供統計碩士、博士學位及應用數學碩士學位 (Master of Applied Math Science, MAMS)。統計碩士學位中有兩種不同的選擇，其一是應用統計學組，其二是數理統計學組。學生可依自己興趣決定組別，二者均可自由決定是否選修論文學分。喬大為學季制大學，若決定選修論文者，除論文外至少需修滿 40 個學分；決定不選修論文者則至少需修滿 55 個學分。有意於博士學位者，需以數理統計組的必修課程做為基礎，另外再加上高等機率論和高等統計推論，其餘的則完全由學生自行取捨，擬定修課計劃。高等微積分和綫性代數是最基本的要求。

目前本系共有教授 23 位，博士研究生 21 位，碩士研究生 18 位，MAMS 研究生 2 位。其中大部分來自中韓兩國，中國學生共有 12 位。本系的研究生有極大的機會取得獎學金，中國同學几乎是人手一份。大部分擔任課業助教 (Departmental Assistant)，小部分擔任研究助理 (Research Assistant)，領有獎學金的同學並可減免部分學雜費用。本系並開設了一門統計諮詢學 (Consulting) 的課程，使學生有機會得以接觸統計實務，將理論與實際工作相互結合。

由於統計和電腦之間不可分的關係，使得本系和學校的電腦中心經常保持最密切的聯繫。喬大的主要電腦系統為 IBM3081, Control Data Cyber 850, Omega II 和二部 Super computers: Cyber 205, Cyberplus, 還有以教學為主的 Music 電腦系統。由於本系設有自己的終端機室，學生可以十分方便地使用電腦設備。除此之外，本系自己擁有 VAX 11/750 系統，一個小型的電腦中心和許多的 Digital Pro/380 PC，供教授和學生們使用。

目前獎學金的金額 (85-86) 為碩士學位 5731 美元，博士學位 6113 美元。已婚同學可申請結婚學生宿舍，單身同學則可申請研究生宿舍，校外亦有許多住宿的公寓。建校已有 200 年歷史的喬治亞大學位於喬治亞州的心臟地帶的 Athens 城，是一個典型的大學城，生活環境恬靜幽雅，距亞特蘭大城約 65 哩，可以說是兼具大城、小鎮的優點。對本校統計系有興趣的同學可向 Graduate Coordinator 取得資料。地址是

Graduate Coordinate
Dept of Stat
Univ of Georgia
Athens GA 30602

本系目前共有十五、六位專任教授、副教授及助教授,四十多位研究生;其中有一位中國教授及四位中國學生,均為CSAA的會員。本系教授的研究方向大致可分為兩方面: Linear Models 及 Applied Probability, 其他如 Computing, Design, Nonparametric 等也有教授在做研究,但不像前述兩項有多位教授一起的投入。

研究生方面,約有半數是在攻讀博士學位,系上接受直攻博士或先修碩士再攻博士的研究生,目前大部分博士研究生已先在其他學校取得碩士學位。有關獎學金方面,系上約有十多份TA,另外一項主要來源是 Stat Lab, 透過提供校內其他各系的 Consulting 來支助一部分的研究生,其他尚有若干份獎學金來自校外的大型 Consulting Project, NSF 及軍方,因此目前的研究生有半數以上由統計系支助,不僅支助美國學生,外國學生也有不少得的到獎學金。

本系所開的課程相當完整,從大學部的基本課程到博士班的高等課程,層次分明,涵蓋的範圍極為廣泛;舉凡 Probability, Math Stat, Sampling, Linear Models, Computing, Experimental Design, Multivariate Analysis, Stochastic Process 及 Time Series 等課程,多數都開的出來,同時上述課程一般均為兩學期或更多學期,根據教授的研究興趣或學生的需要,可以探討到相當的程度。

系上絕大多數的教授研究興趣都相當濃厚,而且系上對教學的要求相當嚴格,對研究生逼的很緊,因此教授一學期的 Course Load 為兩門課,有時擔任比較重課程的教授只負責一門課。

由於系上一方面對教學的要求嚴格,一方面很重視畢業研究生的程度,故對研究生的淘汰率相當高。由於分數給的嚴,有的研究生平均不到B就被請走;多數的淘汰則在博士資格考時,兩次不過只好走路。因為如此,一般自本系畢業的同學就業情形都非常不錯;無論碩士或博士,通常在畢業之前都已有就業機會,甚至有數個工作機會可供選擇。雖然系上對課業要求嚴格,但拿到獎學金的机会很大,同時畢業後就業机会良好,所以CSU仍是一個良好的進修環境。

ABSTRACT

ESTIMATION OF A CHANGE-POINT

Siu Tong Au 區少棠

August 1984

Let X_{n_1}, \dots, X_{n_2} be a sequence of independent random variables such that the p.d.f. of X_i ($i = n_1, \dots, r$) is $f(x_i, \theta)$ and the p.d.f. of X_i ($i = r+1, \dots, n_2$) is $g(x_i, \phi)$. The primary goal is to estimate the unknown change-point r .

When $f(x, \theta)$ and $g(x, \phi)$ are known, the finite sample distribution and the asymptotic distribution of the Bayes estimate \hat{r}_b of the change-point r with respect to the uniform prior and expected quadratic loss are derived. This contrasts with David Hinkley's work (1970) on the maximum likelihood estimate of the change-point.

A recurrence procedure is found to compute the finite sample distribution of \hat{r}_b . If $n_1 \rightarrow \infty$ and $n_2 \rightarrow \infty$, then under certain conditions, $\hat{r}_b - r$ converges almost surely to

$$\frac{Z_1 - Z_2}{1 + W_1 + W_2}$$

where (W_1, Z_1) and (W_2, Z_2) are independent; and the densities of (W_1, Z_1) and (W_2, Z_2) are unique solutions of integral equations that depend on f and g . The integral equation can be used to compute the asymptotic distribution numerically. When f and g are normal densities, the asymptotic distributions are found to be close to some finite sample empirical distributions.

Since the above asymptotic result depends on the specific distributions of the data, a second type of asymptotics of the Bayes estimate is considered; an additional assumption is that the amount of change goes to zero as the sample sizes before and after the change-point go to infinity. Let X_1, \dots, X_n be a sequence of random variables such that X_i ($i = 1, \dots, r_n$) is $f(x_i, \theta_0)$ and the p.d.f. of X_i ($i = r_n+1, \dots, n$) is $f(x_i, \theta_0 + \delta_n)$, where $r_n = [\lambda n]$, $0 < \lambda < 1$; θ_0 , λ and δ_n are known constants. Let \hat{r}_n be the

Bayes estimate of r_n with respect to the uniform prior and expected quadratic loss. If $\lim_{n \rightarrow \infty} \delta_n = 0$, $\lim_{n \rightarrow \infty} n\delta_n^2 = \infty$ and $f(x, \theta)$ satisfies certain regularity conditions, then as $n \rightarrow \infty$, $\delta_n^2 I(\theta_0) (\hat{r}_n - r_n)$ converges in distribution to

$$\frac{\int_0^\infty t e^{B_1(t) - \frac{1}{2}t} dt - \int_0^\infty t e^{B_2(t) - \frac{1}{2}t} dt}{\int_0^\infty e^{B_1(t) - \frac{1}{2}t} dt + \int_0^\infty e^{B_2(t) - \frac{1}{2}t} dt}$$

where $B_1(t)$ and $B_2(t)$ are two independent Brownian motions and $I(\theta_0)$ is the Fisher information of $f(x, \theta)$ at θ_0 .

Two non-parametric estimators are proposed in estimating the change-point when the distributions of the data are unknown. The new estimators are compared with other non-parametric estimators by the Monte Carlo method. The new estimation procedures are demonstrated by using the weekly U.S. stock-market returns from July 1, 1971 to August 2, 1974.

The least squares estimation of the change-point in an autoregressive process is also considered. The estimation procedure is demonstrated by using the monthly U.S. gasoline consumption from January 1972 to December 1983.

Title: Quadratic Forms in Gaussian Processes

Chien-Chun Wang 王千春

Ph.D., Colorado State University, 1985

Major Professor: M. M. Siddiqui

ABSTRACT

Let $\{x(t), 0 \leq t \leq 1\}$ be a real Gaussian process with mean $E[x(t)] \equiv 0$ and covariance function $E[x(s)x(t)] = k(s, t)$. Our main objective is to estimate the distribution of

$$Q =: \int_0^1 x^2(t) dt$$

exactly, if possible, approximately, otherwise. It will be shown that, by the use of Mercer's theorem, Q can be represented as

$$Q = \sum_{n=1}^{\infty} \lambda_n x_n^2$$

where $\lambda_n, n = 1, 2, \dots$, are the eigenvalues of the covariance function $k(s, t)$, $0 \leq s, t \leq 1$, and x_n^2 are independent chi-square random variables each with one degree of freedom. We can then obtain the characteristic function and the cumulants of Q , and use them for computing the distribution function of Q . The computation techniques employed are: numerical inversion of the characteristic function, and approximation through a series of Laguerre polynomials.

In these procedures for computing the distribution function of Q , eigenvalues $\lambda_n, n = 1, 2, \dots$, of $k(s, t)$ are employed. When λ_n 's can be solved, we use both methods; and when λ_n 's are difficult to solve, as they usually are, or an analytic form for them is not available, we only use the method of Laguerre polynomials. As we will see, the numerical inversion of a characteristic function gives almost exact results, and Laguerre series expansions have fairly good performance, too.

Among the applications of quadratic forms, some goodness-of-fit criteria and tests of symmetry will be presented and their distributions will be given.

Some of the test statistics which will be presented are derived by the use of the empirical distribution function, and others by the empirical characteristic function based on the observations x_1, x_2, \dots, x_n . When the empirical distribution function is used, we "uniformize" the distribution, because the uniform distribution is the simplest distribution function. When the empirical characteristic function is used, we "Cauchyize" the distribution, because the characteristic function of the standard Cauchy distribution is of a simple form $e^{-|u|}$.

Chien-Chun Wang
Statistics Department
Colorado State University
Fort Collins, Colorado 80523
Spring 1985

PARTIAL ORDERINGS, WITH APPLICATIONS TO RELIABILITY

(Publication No. _____)

Wai T. Chan, Ph.D. 陳偉達
The Florida State University, 1985.

Major Professors: Frank Proschan, Ph.D. and
Jayaram Sethuraman, Ph.D.

This dissertation is a contribution to the use of inequalities in reliability theory. Specifically, we study three partial orderings, develop some useful properties of these orderings, and apply them to obtain several applications in reliability.

The first partial ordering is the notion of convex-ordering among life distributions. This is in the spirit of Hardy, Littlewood, and Pólya (1952) who introduced the concept of relative convexity. Many parametric families of distribution functions encountered in reliability theory are convex-ordered. Different coherent structures can also be compared with respect to this partial ordering.

The second partial ordering is the ordering of majorization among integrable functions. This ordering is a generalization of the majorization ordering of Hardy, Littlewood, and Pólya (1952) for vectors in n -dimensional Euclidean spaces. The concept of majorization among vectors plays a fundamental role in establishing various inequalities. These inequalities can be recast as statements that certain functions are increasing with respect to the ordering of majorization. Such functions are called Schur-convex functions. An important result in the theory of majorization is the Schur-Ostrowski Theorem, which characterizes Schur-convex functions. A functional defined on the space of integrable functions is said to be Schur-convex if it is increasing with respect to the ordering of majorization. We obtain an analogue of the Schur-Ostrowski Theorem which characterizes Schur-convex functionals in terms of their Gâteaux differentials.

The third partial ordering is the ordering of unrestricted majorization among integrable functions. This partial ordering is similar to majorization but does not involve the use of decreasing rearrangements. We establish another analogue of the Schur-Ostrowski Theorem for functionals increasing with respect to the partial ordering of unrestricted majorization.

Optimal Rates of Convergence for Locating the Global Maximum
of a Regression Function


By

Hung Chen 陳宏

Department of Statistics
University of California, Berkeley

Abstract

The following algorithm is proposed for estimating the location of the global maximum x_0 of an unknown smooth regression function θ of a d -dimensional control variable in a nondegenerate compact set C in \mathbb{R}^d with arbitrary distribution: Use half of the observations to estimate the regression function globally by local polynomial regression function to get a confidence band for the entire function θ on C whose coverage probability goes to one as the sample size tends to infinity. Then take the other half of the observations uniformly distributed over $2d^2 + 1$ points in the region of the maximum with diameter $O(n^{-1/6})$ that is obtained by using the confidence band for θ , and fit a quadratic polynomial to the observations by the method of least squares. The point where the fitted polynomial achieves its maximum is the estimator of x_0 . Under appropriate regularity conditions, it is shown that this two-stage estimator achieves the convergence rate $n^{-1/3}$ and that no estimator can achieve a faster convergence rate.


Professor C. Stone
Chairman, Thesis Committee

AN ILLNESS-DEATH PROCESS
WITH TIME-DEPENDENT COVARIATES

Publication No.

Yu Kun Chiang, Ph.D. 蔣鈺琨
The University of Texas
Health Science Center at Houston
School of Public Health
June 1984

Supervising Professor: Robert J. Hardy, Ph.D.

A general model for the illness-death stochastic process with covariates has been developed for the analysis of survival data. This model incorporates important baseline and time-dependent covariates to

make proper adjustment for the transition probabilities and survival probabilities. The follow-up period is subdivided into small intervals and a constant hazard is assumed for each interval. An approximation formula is derived to estimate the transition parameters when the exact transition time is unknown.

The method developed is illustrated by using data from a study on the prevention of the recurrence of a myocardial infarction and subsequent mortality, the Beta-Blocker Heart Attack Trial (BHAT). This method provides an analytical approach which simultaneously includes provision for both fatal and nonfatal events in the model. According to this analysis, the effectiveness of the treatment can be compared between the Placebo and Propranolol treatment groups with respect to fatal and nonfatal events.

- * 喜訊 *
- 請見會員近著 Hsu, Der-Ann
- 陳占平教授 NIH Research Grand Award for 3 years
 - 鄭清水教授 Assoc Editor of The Annals of Stat
 - 王永雄、魏立人、段乃華及吳建福教授 Associate Editors of JASA
 - 趙騏博士 1985-1986 Chairman of PMA Biostatistics Subsection Steering Committee
 - 譚靜如博士 Nominated as Data Collaborator of The WHO Multinational Study of Vascular Disease in Diabetics
 - 彭昭英教授即將升為副教授
 - 陳達博士 Listed in the Scientist Sec. of Who, s Who in Cancer: Professionals and Facilities



- * 動態 *
- 向傳心博士 Universal Foods Corporation, Milwaukee, Wisconsin
 - 莊建蘭博士 The Upjohn Co., Kalamazoo, Michigan
 - 葉翹博士於1985年8月在中國鄭州黃河大學講學二週
 - 孔繁浩教授於1985年暑期在南京林業大學講學
 - 陳惠森博士 Bureau of The Census, Washington, D.C.
 - 黃光明博士 希望能甫同仁交換信息在 1. Computing Reliability for System & Networks 2. Group Testing Models 並建議考慮投稿至: (Cambridge Univ. Press) "Probability in the Engineering & Informational Sciences"

會員近著

因稿擠，故只選最近一篇，括號內之數字為各作者寄給本刊論文之數目，謝謝！

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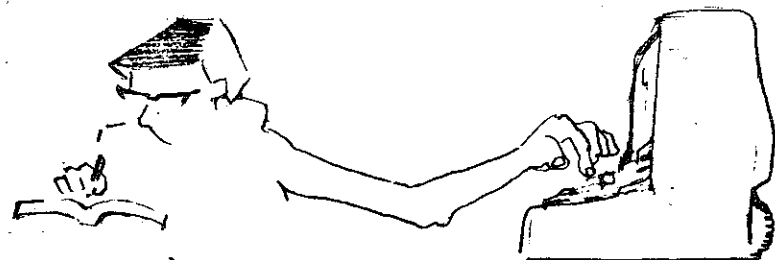
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休士頓分會主席席伯乘教授領導下參加了1985年5月在休士頓
 舉行的第七屆美南科學工程技術討論會，並主持兩個統計及或然
 率 Session，會中提出之統計論文如下：

Statistics & Probability I

Chairperson: 席伯乘

- (1) 蔡以中 Mathematical Modelling of Adverse Health Effect
- (2) 莊易 Statistical Cluster Analysis with Application to Nerve Cell Identification
- (3) 席伯乘 Statistical Model of Area Sampling
- (4) 林崑峯 Statistical Hypothesis Testing in Space Biomedical Experiments Using Designs with Repeated Measures
- (5) 邱顯聰 Time Delay Estimation with Application to Seismic Data

Statistics & Probability II

Chairperson: 莊易

- (1) 項海震 Sampling Techniques in Statistical Quality Control
- (2) 韓建佩 A Computer Aptitude Score Test
- (3) 韓建佩 Estimating Means Based on Conditional Specification on L Rate of Convergence of Simple Linear Rank Statistics Under Contiguous Alternative
- (4) 吳鐵肩

會員通訊處

AU, SIU TONG

區少棠
 PH.D. 1984

BAI, ZHIDONG

白志東
 PH.D. 1982

BAIR, EUGENIA

白越珠
 M.S.

CAI, HAIYAN

蔡海源

CAI, YILIN

CHAI, ERIC Y.

蔡以中
 M.A. 1967

CHAING, DANNY S.

江曙天
 M.S. 1978

CHAN, CHIN-LEE

陳千里
 M.S. 1984

CHAN, KA-LING

陳嘉陵
 M.S.

CHAN, LAI KOW

陳乃九
 PH.D. 1966

CHAN, N.N.

陳乃五
 PH.D. 1963

3333 WARD ST
 PITTSBURGH, PA 15213
 (412) 681-9054

4-C U. HEIGHTS
 COLUMBIA, MO 65201

4301 POWALT DR APT. 101
 COLLEGE PARK, MD 20740
 (301) 864-2828

14215 LAKEWOOD FOREST
 DR.,
 HOUSTON, TX 77070
 (713) 376-6918

209-43, 27TH AVE.
 BAYSIDE, QUEENS NY
 N.Y. 11360
 (212) 423-6672

2313-A MAIN ST
 LUBBOCK, TX 79401
 (806) 762-1754

177 MEADOWBROOK DR
 PRINCETON, NJ 08540
 (609) 924-1590

FLAT 7A U. RES. NO. 8
 THE CHINESE U. OF HK
 SHATIN, N.T.
 HONG KONG

RESEARCH STATISTICIAN
 5E108 AT&T BELL LABS.
 MURRY HILLS, NJ 07974-2070
 (201) 582-4902

POSTDOC
 CTR FOR MULTI ANALYSIS
 U. OF PITTSBURGH
 PITTSBURGH, PA 15260
 (412) 624-7911

STUDENT
 U. OF MISSOURI
 COLUMBIA, MO 65201
 (314) 882-4485

STUDENT
 DEPT OF MATH
 U. OF MARYLAND
 COLLEGE PARK, MD 20742

STUDENT
 DEPT OF STAT
 IOWA STATE U.

SR. RES. MATH.
 SHELL DEVELOPMENT CO.
 P.O. BOX 1380
 HOUSTON, TX 77001
 (713) 493-7874

STATISTICIAN
 685, THIRD AVE.
 N.Y. NY 10017
 (212) 878-6636

STUDENT
 DATA ANALYST
 ETS
 PRINCETON, NJ 08541
 (609) 734-1590

PROFESSOR
 DEPT OF STAT.
 U. OF MANITOBA
 WINNIPEG, MANITOBA
 CANADA R3T 2N2
 (204) 474-9826

PROFESSOR
 DEPT. OF STATISTICS
 THE CHINESE U. OF HK
 SHATIN, N.T. HONG KONG

PROB.
 MATH. STAT.
 & ECON.

PROB &
 MATH. STAT.

PROB. &
 MATH. STAT.

BIOSTAT.

EXP. DESIGN
 COMPUTING

COMPUTING

O.R.
 ENG. STAT.

MATH. STAT.

CHAN,NGAI-HANG 陳毅恒 PH.D. 1985		ASST PROF DEPT OF MATH SWAIN HALL EAST BLOOMINGTON,IN 47405		CHANG.POTTER C 張健天		DIVISION OF BIOSTAT. SCHOOL OF PUBLIC HEALTH UCLA LA,CA 90024 (213)825-5629	
CHAN,S.H. 詹世煌		STUDENT DEPT OF STAT.1566 NEIL OHIO STATE U. COLUMBUS.OH 43201		CHANG,SHU-HSING 張樹馨 1605 LINDEN DR #11 MADISON,WI 53706		STUDENT DEPT OF STAT UW-MADISON	
CHAN,Y.C. 張玉真 #383,JONES TOWER COLUMBUS,OH 43201 (614)421-1533		STUDENT DEPT OF STAT.1566 NEIL OHIO STATE U.		CHANG,TSENG C. 張曾紀 PH.D. 1969		PROFESSOR MATH. SCI. DEPT. UNIV. OF CINCINNATI CINCINNATI,OH 45221 (513)475-4047	PROB. & MATH.STAT.
CHAN,YICK-KWONG 陳奕光 PH.D. 1966 41 OWL HILL TRAIL TRUMBULL,CT 06611 (203)261-4566		STATISTICIAN COOP STUDIES PROG. CTR. VA MEDICAL CTR.W.SPRING ST. WEST HEAVEN,CT 06516 (203)932-5711(500)	BIOSTAT.	CHANG,WEI-CHIEN 張維謙 PH.D. 1971 1630 SLEEPY HOLLOW DEKALB,ILL 60115 (815)758-7072		ASSOC PROFESSOR DEPT OF BUSINESS SYSTEM AND ANALYSIS NORTHERN ILLIONOIS UNIV. DEKALB,IL 60115	BIOSTAT. BUS.STAT. MULTI.ANA.
CHANG,CHENG-TAO 張正道 PH.D. 1982 3 DRAPER ST. ONEONTA,N.Y. 13820 (607)433-2302		ASST PROFESSOR MATH. SCI. DEPT. SUNY ONEONTA,NY 13820-1368 (607)431-3229	MATH.STAT.	CHANG,Y. C. 章玉麒 PH.D. 1972 17360 TURNBURY CT. GRANGER,IN 46530 (219)239-5215		ASSOC. PROFESSOR DEPT. OF MANAGEMENT UNIV. OF NOTRE DAME NOTRE DAME,IN 46556 (219)283-1672	ECON. BUS.STAT.
CHANG,CHI-TONG 張其棟 PH.D. 1970 2000 MAGAZING ST. AUSTIN,TX 78727 (512)255-4749		CITY OF AUSTIN ENGINEERING.301 W. 2ND ST. AUSTIN,TX 78727 (512)477-6511-2525	BIOSTAT. O.R. & ENG.STAT.	CHANG,YU-LIN 張毓麟 B.S. 1975 800 GOODING DR.#99 ALBANY,CA 94706 (415)524-8035		STUDENT DEPT. OF STAT. UNIV. OF CALIF. BERKELEY,CA 94720	PROB. & MATH.STAT.
CHANG,CHUAN SHIOU 張權修 PH.D. 1985		SR. BIOSTAT. BIOMED DEPT. EXTRACORPOREAL ROSS & ROYAL RDS. KING OF PRUSSIA,PA 19406 (215)337-2400	BIOSTAT.	CHAO,GEORGE C. 趙騏 PH.D. 1972 39 BLUE STONE CT. CHADDS FORD,PA 19317		MANAGER OF BIOMETRICS DU PONT PHARMACEUTICAL BARLEY MILLS PLAZA,P25/1326 WILMINGTON,DE 19898 (302)992-5135	BIOSTAT.
CHANG, H. T. 張宏圖 MBA 1982 BOX 625 CLIFTON,NJ 07012 (201)884-0904		SEC. SUPERVISOR Q.C. DEPT. HOFFMANN-LAROCHE NUTLEY,NJ 07110 (201)235-4524	STAT.O.C.	CHAO,MIN-TE 趙民德 PH.D. 1967 13400 HARRISON AVE. FT.WASHINGTON,MD 20744		RES.FELLOW & DIRECTOR INSTITUTE OF STATISTICS ACADEMIA SINICA,NANKANG TAIPEI 10115.TAIWAN,R.O.C	
CHANG,HOLEN HELEN 張和倫 M.S. 1975 228 BISHOP ST. NEW HAVEN,CT 06511 (203)776-6894		STUDENT YALE UNIV. NEW HAVEN,CT 06511	NONPAR.	CHEN, 陳一修 13400 HARRISON AVE. FT.WASHINGTON,MD 20744			
CHANG,IH 張禕 PH.D. 1982 5959 BONHOMME #263 HOUSTON,TX 77036 (713)783-5425		STATISTICIAN IMSL INC. 7500 BELLAIRE BLVD HOUSTON,TX 77036 (713)772-1927		CHEN,CHAN-FU 陳長福 PH.D. 1976			REG. ANAL.
CHANG,JOANNE 張子若 215 N. FRANCES ST.#606 MADISON,WI 53703 (608)258-9987		STUDENT UW-MADISON		CHEN,CHEN-HSIN 陳珍信 PH.D. 1982		ASSO RES. FELLOW INST. OF STATISTICS ACADEMIA SINICA,NANKANG TAIPEI 10115.TAIWAN,R.O.C.	BIOSTAT. PROB. & MATH.STAT.
CHANG,MEI-LIN 張美玲		STUDENT DEPT OF STAT.,TEMPLE U. PHILADELPHIA,PA 19122		CHEN,CHI H. 陳季鎬 PH.D. 1965		PROFESSOR & CHAIRMAN DEPT OF E.E. S.E. MASS. UNIV. (617)999-8475	ENG.STAT. PROB. & MATH.STAT.
CHANG,PETER T. 張子元 PH.D. 1977 8811 LOUIS DR. HUNTSVILLE,AL 35802 (205)883-7604		ASSOC. PROFESSOR DEPT. OF ECON.& FINANCE ALA. A & M UNIV. NORMAL,ALA 35762 (205)859-7333	O.R. ECON.& BUS.STAT.				

Chen, Jeesan 陳志勝 1657 Collinspark Ct.
Cincinnati, OH 45230
(513) 232-6496

Assistant Professor
Dept. of Math. Sci.
U.C. (513) 475-5826

CHEN, CHIH-SHENG

陳志勝

B.S. 1982

CHEN, CHIN-YING

陳瑾瑛

M.S. 1981

CHEN, CHUNG

陳江

PH.D. 1984

CHEN, CHUNG-NIEN

陳忠年

CHEN, DAVID M.

陳明

M.A. 1980

CHEN, HSIAO YUAN

陳曉園

M.S. 1985

CHEN, HUNG

陳宏

PH.D. 1984

CHEN, HWEI-JU

陳蕙如

CHEN, JAMES J.

陳章榮

PH.D. 1978

CHEN, JANPEING

陳占平

PH.D. 1974

CHEN, JINT.

程進智

PH.D. 1974

NW 1420B DEANE DR.
PULLMAN, WA 99163
(509) 332-7884

313 HOMESTEAD LANE
BOALSBURG, PA 16827
(814) 466-7464

1576 COUNTRY SQUIRE DR.
GENEVA, IL 60134
(312) 232-8337

1411 STONEHENGE PL.
LITTLE ROCK, AR 72212
(501) 227-5562

135 HONEYSUCKLE CT.
WINTERVILLE, GA 30683
(404) 353-3559

2020 ROLLING CRUK RD.
EDMOND, OK 73034
(405) 341-1733

GRAD STUDENT
DEPT OF MATH & STAT
UNIV. OF PITTSBURGH
PITTSBURGH, PA 15213

INSTITUTE OF STATISTICS
ACADEMIA SINICA, NANKANG
TAIPEI 10115, TAIWAN
R.O.C.

ASSISTANT PROFESSOR
DEPT OF MANAGEMENT & SYSTEMS
WASHINGTON STATE UNIV.
PULLMAN, WA 99164-4726
(509) 335-2341

STUDENT
SCHOOL OF STAT
270 VINCENT HALL
U. OF MINNESOTA
MPLS, MN 55455

STUDENT

ECON. RES.
840 N. LAKE SHORE DR.
10TH W.
AMERICAN HOSPITAL ASSO.
CHICAGO, IL 60134
(312) 280-6471

ASSIST. PROFESSOR
STATE UNIV. OF NY
DEPT OF APPLIED MATH. & STAT.
STONY BROOK, NY 11794
(516) 246-6002

MEMBER OF TECH. STAFF
STAT. RES. DEPT
AT&T BELL LABS
600 MOUNTAIN AVE.
MURRY HILL, NJ 07974
(201) 582-6005

SR. STAFF FELLOW
BIOMETRY DIVISION, NCTR
JEFFERSON, AR 72079
(501) 541-4005

ASSOC. PROFESSOR
DEPT OF STAT & COMP
UNIV. OF GEORGIA
ATHENS, GEORGIA 30602
(404) 542-5232

ASSOC. PROFESSOR
CENTRAL S. U.
(405) 341-2980 X294

BIOSTAT.

MATH. STAT.
BUS. STAT.

APPLIED.
STAT.

BUS. STAT.

PROB. &
MATH. STAT.

RANKING
SELECTION
PROB. &
MATH. STAT.

PROB. &
MATH. STAT.

CHEN, JIUNN CHARN 587 HARLEY DR. #7
陳俊成 COLUMBUS, OH 43202
(614) 262-3801
M.S. 1979

CHEN, KEH WEI

陳克威

PH.D. 1983

CHEN LU, TAI FANG 2601 SOLDIERS HOME RD.
陳台芳 #52
W. LAFAYETTE, IN 47906
M.S. 1979

CHEN, MI

陳洵

311 E. 7TH ST #8
DAVIS, CA 95616

CHEN, MONGY

陳滿枝

M.S. 1977

CHEN, PAUL

陳寶良

PH.D. 1976

65 LANCASTER RD.
FREEHOLD, NJ 07728
(201) 780-7134

3820 RIMONTE DR.
LOUISVILLE, KY 40220
(502) 458-1150

CHEN, PINYUEN

陳平雲

PH.D. 1982

7284 ROUMARE RD.
EAST SYRACUSE, NY 13210
(315) 656-2695

CHEN, ROBERT C.

陳正忻

M.S. 1970

225 BUSH ST.
APT. 875
SAN FRANCISCO, CA 94104
(415) 894-4653

CHEN, ROBERT W.

陳文憲

PH.D. 1974

1506 DELGODO AVE.
CORAL GABLES, FL 33146
(305) 284-2575

CHEN, RONGDEAN

陳榮典

534 LOWELL AVE. #1
CINCINNATI, OH 45220
(513) 221-5834

CHEN, SHEW-JEN

CHEN, SHU MEI

陳秀梅

PH.D. 1984

STUDENT
OHIO STATE UNIV.
DEPT OF STAT. 1958 NEIL
COLUMBUS, OH 43210

ASST. PROFESSOR
DEPT OF MATH.
U. OF NORTH CAROLINA
CHARLOTTE, NC 28205
(704) 597-4551

STUDENT
DEPT OF STAT
UC-DAVIS
DAVIS, CA 95616

G.H. BESSELAAR ASSOCIATE
103 COLLEGE RD. EAST
PRINCETON, NJ 08540
(609) 452-8550 X216

HEAD OF STAT. SEC.
RES. DEPT.
BROWN & WILLIAMSON TABACCO
1600 W. HILL ST.
LOUISVILLE, KY 40220
(502) 568-7727

ASST. PROFESSOR
DEPT OF MATH. SYRACUSE U.
SYRACUSE, NY 13210
(315) 423-3892

SR. ACTUARIAL ANALYST
STAND OIL CO. OF CA
RM 875, 225 BUSH ST.
SAN FRANCISCO, CA 94104

PROFESSOR
MATH & COMP. SCI. DEPT.
UNIV. OF MIAMI
CORAL GABLES, FL 33124
(305) 284-2575

STUDENT
UNIV. OF CINCINNATI
2410 OHIO AVE. #302
CINCINNATI, OH 45219

STUDENT
DEPT OF STAT
U. OF GEORGIA

ASISTANT PROFESSOR
DEPT. OF ECON. & STAT.
NATIONAL U. OF SINGAPORE
KENT RIDGE, SINGAPORE 0511

PROB. &
MATH. STAT.
ENG. STAT.

PROB. &
MATH. STAT.

MATH. STAT.

BIOSTAT.

MATH. STAT.

PROB. &
MATH. STAT.

BUS. STAT.

PROB. &
MATH. STAT.

BIOSTAT.

RELIAB.

CHEN, SION-FANG
陳勁芳
STUDENT
DEPT OF STAT., TEMPLE U.
PHILADELPHIA, PA 19122

CHEN, SY-MEIN
陳思勉
3407 TULANE DR APT.13
HYATTSVILLE, MD 20783
(301)422-2419
STUDENT
DEPT OF MATH
U. OF MARYLAND
COLLEGE PARK, MD 20742

CHEN, T. TIMOTHY
陳達
2807 MARQUIS CIRCLE E.
ARLINGTON, TX 76016
(817)496-0472
PH.D. 1972
SR. BIOSTAT. BIOSTST.
R&D BIOSTAT., ALCON LABS.
6201 S. FREEWAY, P.O. BOX 1959
FORT WORTH, TX 76101
(817)551-8014

CHEN, TZUOO-YEE
陳左宜
1301 SPRING ST #503
MADISON, WI 53715
STUDENT
DEPT OF STAT
UW-MADISON

CHEN, WAI T
陳偉達
PH.D. 1985
ASST PROF
DEPT OF STAT
OHIO STATE U.
COLUMBUS, OH 43210

CHEN, WILLIAM
陳惠森
PH.D. 1978
STAT. ANALYST
STAT. METHOD DIVISION
BUREAU OF THE CENSUS
WASHINGTON D.C. 20233
(301)763-4150

CHEN, Y. I.
陳玉英
88 E. FRAMBES AVE #C
COLUMBUS, OH 43201
(614)291-4438
STUDENT
DEPT OF STAT, 1566 NEIL
OHIO STATE U.

CHEN, YUN-SHIOW
陳雲岫
#1319, JONES TOWER
COLUMBUS, OH 43201
(614)421-7862
STUDENT
DEPT OF STAT, 1566 NEIL
OHIO STATE U.

CHEN, ZEHUA
陳澤華
M.S. 1985
556 STATE ST # 36
MADISON, WI 53703
STUDENT
DEPT OF STAT
UW-MADISON

CHENG, CHING SHUI
鄭清水
PH.D. 1977
664 MARLESTA RD.
PINOLE, CA 94564
(415)222-0408
ASSO. PROFESSOR
DEPT OF STAT.
UNIV. OF CALI.
BERKELEY, CA 94720
(415)642-9968
PROB. &
MATH. STAT.

CHENG, DAVID C.
鄭治明
PH.D. 1973
4 LAKEVIEW EST.
NORTHPORT, AL 35476
(205)339-5257
PROFESSOR
COLLEGE OF COMM. & BUS. ADMIN.
UNIV. OF ALABAMA
UNIVERSITY, AL 35486
(205)348-7842
ECON. &
BUS. STAT.

CHENG, KUANG FU
鄭光甫
PH.D. 1979
PROFESSOR
GRAD. INST. OF STAT.
NATIONAL CENTRAL UNIV.
CHUNG LI 10320, TAIWAN, R.O.C.
BIOSTAT.
MATH. STAT.
ENG. STAT.

CHENG, PHILIP
程南觀
PH.D. 1980

CHENG, SMILEY W.
鄭維孝
PH.D. 1973
11 LONGSTON PLACE
WINNIPEG,
CANADA R3T 3T6
(204)261-5670
PROFESSOR
DEPT. OF STAT.
UNIV. OF MANITOBA
WINNIPEG, MB, CANADA R3T 2N2
(204)474-8205
EDUCA. STAT.
MATH. STAT.

CHI, GEORGE YU HUA
季渝華
PH.D. 1970
STATISTICIAN
CTR. FOR DRUGS & BIOLOGICS
FDA, RM 18B45
5600 FISHERS LANE
ROCKVILLE, MD 20857
(301)443-4594
BIOSTAT.
PROB. &
MATH. STAT.

CHI, MAO-SUNG
齊茂松
B.S. 1981
904D EAGLE HEIGHTS
MADISON, WI 53705
(608)238-4260
STUDENT
UW-MADISON
(608)262-5767

CHI, YUNCHAN
嵇允嬋
PH.D. 1979
81 W. NORWICH AVE #A
COLUMBUS, OH 43201
(614)299-7558
STUDENT
DEPT OF STAT, 1566 NEIL
OHIO STATE U.

CHIANG, CHING YUAN
江清源
PH.D. 1979
ASST. PROFESOR NONPAR.
DEPT OF MATH. & COMP. SCI. STAT.
JAMES MADISON UNIV.
HARRISONBURG, VA 22807
(703)568-6919

CHIANG, KUO-HSIUNG
蔣國雄
PH.D. 1979
2920 SCIOTO ST #406
CINCINNATI, OH 45219
(513)475-3173
STUDENT
DEPT OF MATH
U. OF CINCINNATI
CINCINNATI, OH 45221

CHIANG, Y. C.
江永進
STUDENT
DEPT OF STAT
THE FLORIDA STATE U.
TALLAHASSEE, FL 32306

CHIANG, YU-KUN
蔣鈺琨
PH.D. 1985
LSU MED. CTR. (NRDC-A)
TIDEWATER PLACE
1440 CANAL ST. #1400
NEW ORLEANS, LA 70112
BIOSTAT.

CHIAO, SUPING
焦淑萍
PH.D. 1985
309 N. MILLS ST
MADISON, WI 53705
(608)255-5295
STUDENT
DEPT OF STAT
UW-MADISON

CHIN, DELIA M.
陳岱麗
M.S. 1982
31 GILLMAN ST
IRVINE, CA 92715
(714)733-8164
STATISTICIAN
SHILEY INC.
17600 GILLETTE AVE
IRVINE, CA 92714
(714)250-8428
BIOSTAT.

CHIOU, SHEAN TSONG
邱顯聰
M.A. 1981
1067C MONROE AVE. #5
ALBANY, CA 94706
(415)525-1757
STUDENT
UW-MADISON

CHIU, YIH-YUAN
袁意環
PH.D. 1985
1402 REGENT ST. #334
MADISON, WI 53711
(608)256-1856
STUDENT
UW-MADISON

CHOU, CHUNG KUANG 周從光 M.S. 1980	STUDENT OREGON STATE UNIV. CORVALLIS, OR 97331 (503)754-3366	O.R.	DUAN, N. H. 段乃華 PH.D. 1979	ASSO STAT RADN CORP., 1700 MAIN ST. SANTA MONICA, CA 90406 (213)393-0411 EXT 7748	MATH. STAT. BIOSTAT.		
CHOU, S. PATRICIA 何三珍 PH.D. 1979	ASST. PROFESSOR 302 SIMS HALL SYRACUSE UNIV. (315)423-3747	BUS. STAT. & EDUCA. STAT.	FAN, MILTON C. L. 范崇謙 M.A. 1971	10 THORBURN PL. GAITHERSBURGH, MD 20878 (301)424-6674	STAT. METHOD DIVISION BUREAU OF CENSUS WASHINGTON D.C. 20233 (301)763-4153		
CHOW, GREGORY C. 鄒至莊 PH.D. 1955	30 HARDY DR. PRINCETON, NJ 08540 (609)921-2302	PROFESSOR & DIRECTOR ECON. RES. PROG. DEPT. OF ECON. PRINCETON UNIV. 207 DICKINSON HALL PRINCETON, NJ 08544 (609)452-4030	ECON.	FU, JAMES C. 傅權 PH.D. 1971	82 MONTCLAIR BAY WINNIPEG, MANITOBA CANADA (204)269-6615	PROFESSOR DEPT. OF STAT. UNIV. OF MANITOBA WINNIPEG, MB, R3T 2N2 CANADA (204)474-9202	PROB. & MATH. STAT.
CHOW, I SHANG 周宜生 B.S. 1984	4176 BUCHANAN HALL AMES, IA 50013 (515)294-3153	STUDENT IOWA STATE UNIV.	FUH, CHENG-DER 傅承德	STUDENT DEPT OF STAT IOWA STATE U.			
CHOW, SHEIN-CHUNG 周賢忠 PH.D. 1985	3922 BARLEYTON CR. SYLVARRIA, OH 43560 (419)866-5311	ASST. PROFESSOR MATH. DEPT. THE UNIV. OF TOLEDO 2801 W. BANCROFT ST. TOLEDO, OH 43606 (419)537-2976	STAT.	GAN, XIONG 干高雄	STUDENT DEPT OF STAT KANSAS STATE U.		
CHOW, Y. S. 周元榮 PH.D. 1958	144 WASHINGTON AVE. DOBBS FERRY, NY 10522 (914)693-3545	PROFESSOR DEPT. OF MATH. STAT. COLUMBIA UNIV. N.Y., NY 10027	MATH. STAT.	GU, CHONG 顧冲	STUDENT DEPT OF STAT UW-MADISON		
CHUANG, J. CHRISTY 莊建蘭 PH.D. 1980	3614 THORNHILL ST. KALAMAZOO, MI 49007	SR. BIostat. PHARMACEUTICAL R&D THE UPJOHN CO. KALAMAZOO, MI 49001	BIostat. APPLIED. STAT.	GUO, MEIHUI 郭美惠	STUDENT DEPT OF MATH U. OF MARYLAND		
CHUNG, JAIN 鍾堅 M.S. 1980	4709 CYPRESS CREEK AVE. APT. #619 TUSCALOOSA, AL 35405 (205)556-0261	ASST PROF. MANAGEMENT SCI. & STAT. DEPT. P.O. BOX. J, U. OF ALABAMA UNIVERSITY, AL 35486 (205)348-8903	O.R.	GUO, RENKUAN 郭仁寬	STUDENT DEPT OF STAT IOWA STATE U.		
DENG, L. Y. 鄧利源 PH.D. 1984	4111 ST. PIERRE BLVD. #4 MEMPHIS, TN 38122 (901)327-3260	ASSISTANT PROF. DEPT. OF MATH. SCIENCES MEMPHIS STATE UNIV. MEMPHIS, IN 38152 (901)454-2488	MATH. STAT.	GUO, SHUMEI 郭淑媚 PH.D. 1983	CLINICAL ASST PROF DIV. OF HUMAN BIOLOGY DEPT OF PEDIATRICS SCHOOL OF MED., WRIGHT S.U. YELLOW SPRINGS, OH 45387 (513)767-7324	BIostat.	
DENG, PETER T. S. 鄧之鏢 M.S. 1964	52 GERIK RD. STAMFORD, CT 06905 (203)322-4220	RESEARCH STATISTICIAN AMERICAN CYANAMID CO. 1937 W. MAIN ST. P.O. BOX. 60 STAMFORD, CT 06904-0060 (203)348-7331 EXT2347	ENG. STAT. PROB. & MATH. STAT.	HAN, CHIEN PAI 韓建佩 PH.D. 1967	PROFESSOR DEPT. OF MATH. UNIV. OF TEXAS, ARLINGTON ARLINGTON, TX 76019 (817)273-3261		
DING, GEORGE 丁承	STUDENT DEPT OF STAT U. OF GEORGIA		HAU, MAN CHEUNG 侯文章	23 WHISPERING WATER CIR. MONONA, WI 53716 (608)221-9849	STUDENT UW-MADISON		
DU, WEI 杜威	STUDENT DEPT OF STAT U. OF GEORGIA		HO, CHIANG HONG 何建宏 M.S. 1983	909B EAGLE HTS. MADISON, WI 53705 (608)238-0985	STUDENT UW-MADISON		
			HO, CHIH HSIANG 何致祥 M.S. 1981	#E-31 2024 COMMON WEALTH AVE. ST. PAUL, MN 55108	STUDENT SCHOOL OF STAT., U. OF MN 270 VINCENT HALL MPLS, MN 55455 (612)376-7205		

HO, SHU-YEN 309 N. MILLS ST. #4 STUDENT
何樹焱 MADISON, WI 53715 UW-MADISON
(608)255-5295

HO, SIU-CHUEN ASSO. PROF.
何兆銓 APPLIED MATH. DEPT.
PH.D. 1984 NATIONAL CHUNG-HSING UNIV.
TAICHUNG, TAIWAN, R.O.C.

HOFFMAN, WHERLY P. 107G EAGLE HEIGHTS STUDENT
彭慧來 MADISON, WI 53705 DEPT. OF STAT.
M.S. 1980 (608)238-7278 UNIV. OF WISCONSIN
MADISON, WI 53706

HSI, BARTHOLOMEW P. 5650 INDIGO PROF. OF BIOMETRY BIOSTAT.
席伯乘 HOUSTON, TX 77096 SCH. OF PUB. HEALTH
PH.D. 1964 (713)729-2487 U. OF TEXAS, HEALTH SCI. CTR.
P.O. BOX 20186
HOUSTON, TX 77025
(713)792-4451

HSIA, WEI SHEN 54 RIVERDALE DEPT. OF MATH.
夏緯申 TUSCALOOSA, AL 35406 UNIV. OF ALABAMA
PH.D. 1973 UNIVERSITY, AL 35486
(205)348-5071

HSIANG, C. THOMAS DIRECTOR OF STAT. SERVICES ENG. STAT.
向傳心 UNIVERSAL FOODS CORPORATION O.R.
PH.D. 1971 (433 E. MICHIGAN ST. QC/QA/
MILWAUKEE, WI 53201 MANAGE.
(414)271-6755

HSIEH, CHIH HO 7155 BUCHANNAN HALL STUDENT
謝致和 AMES, IA 50013 IOWA STATE UNIV.
AMES, IA 50011

HSIEH, FU-SHING STUDENT
謝復興 DEPT OF MATH.
M.S. 1982 CORNELL U.

HSIEH, HUI-KUANG 36 LONGMEDOW DR. ASSOC. PROF. PROB. &
謝暉光 AMHERST, MA 01002 GRC TOWER MATH. STAT.
PH.D. 1976 (413)253-7982 MATH/STAT., U. OF MASS.
AMHERST, MA 01003
(413)545-2817

HSIEH, J.L. 29 E. FRAMBES AVE #5 STUDENT
謝俊麟 COLUMBUS, OH 43201 DEPT OF STAT, 1566 NEIL
(614)297-0713 OHIO STATE U.

HSIEH, PAUL B.L. 2570 MUSKINGUM CT STUDENT
謝博六 COLUMBUS, OH 43210 DEPT OF STAT, 1566 NEIL
(614)262-7836 OHIO STATE U.

HSU, CHI-JEN 14376 SORREL WAY STUDENT BIOSTAT.
徐吉人 EDEN PRAIRIE, MN 55344 DEPT. OF APPLIED STAT.
M.S. 1976 (612)934-6217 U. OF MINNESOTA
ST. PAUL, MN 55108
(612)376-3845

HSU, CHIN-FEI 2105 BELMORE CT. PROFESSIONAL SCIENTIST
許清輝 CHAMPAIGN, IL 61821 STATE WATER SURVEY
PH.D. 1977 (217)352-1358 ILL. DEPT. ENERGY & NAT. RES.
605 E. SPRINGFIELD
CHAMPAIGN, IL 61820
(217)333-8097

HSU, DER-ANN 9218 N 60TH ST. PROFESSOR BUS. & ENG.
許德安 BROWN DEER, WI 53223 SCHOOL OF B.A. STAT.
PH.D. 1973 (414)354-5855 UNIV OF WIS.
MILWAUKEE, WI 53201

HSU, J.P. 600 POPLARWOOD PLACE MATH. STATISTICIAN BIOSTAT.
徐建萍 GAITHERSBURG, MD 20877 CTR. FOR DRUGS AND
PH.D. 1977 (301)963-0912 BIOLOGICS FDA, RM18B45
5600 FISHERS LANE
ROCKVILLE, MD 20857
(301)443-4594

HSU, JASON C. 1947 RAMBLEWOOD AVE ASSO. PROFESSOR PROB. &
許建新 COLUMBUS, OHIO 43220 DEPT. OF STAT. O.S.U. MATH. STAT.
PH.D. 1977 (614)459-1863 141 COCKINS HALL, 1958 NEIL
COLUMBUS, OHIO 43210-1247
(614)442-7663

HSU, LIFANG 7284 ROUMARE RD. ASST. PROF.
徐莉芳 EAST SYRACUSE, NY 13210 MATH. DEPT.
PH.D. 1983 (315)656-2695 SUNY
OSWEGO, NY 13126

HSU, SHIH-JIAN 101 C EAGLE HTS STUDENT
徐世健 MADISON, WI 53705 UW-MADISON
MS 1984 (608)233-5447

HSU, YEA-TSAI 3004 GLEN BURNIE DR. SR SYSTEM ANALYST STAT. COMP.
徐逸才 RALEIGH, NC 27607 CRC SYSTEMS INC.
PH.D. 1982 (919)781-6327 P.O. BOX 12518
RES. TRIANGLE PARK, NC 27709
(919)541-5730

HSU, YU-SHENG 1279 MUIRFIELD DR. ASSOC. PROFESSOR
許渝生 STONE MOUNTAIN, DEPT. OF MATH. & COMP. SCI.
PH.D. 1975 GA 30088 GEORGIA STATE U.
(404)498-1463 ATLANTA, GA 30303
(404)658-2245

HSUAN, ALICE 2 HATHAWAY DR DIRECTOR
李載涓 PRINCETON JUN, NJ 08550 JANSSEN PHARM.
(609)799-2130 40 KINGSBRIDGE RD
PISCATAWAY, NJ
(201)524-8971

HSUAN, F. 2 HATHAWAY DR. ASSO. PROFESSOR
宣建業 PRINCETON JUNCTIO. DEPT. OF STAT., TEMPLE U.
NJ 08550 PHILADELPHIA, PA 19122
(609)799-2130 (215)787-8105

HU, INCHI VISITING PROF.
胡膺期 40 DEPT. OF MATH.
PH.D. 1985 UNIV. OF MARYLAND
COLLEGE PARK, MD 20742

HU, JULIE C.L. 胡嘉利 MS 1975	43 BEATRICE CIRCLE BELMONT, MA 02178 (617)876-6409	ANALYST 20 ACORN PARK, RM 20A-104 ARTHUR D. LITTLE, INC., CAMBRIDGE, MA 02140 (617)864-5770 X3496	
HU, STEPHEN N. 胡石介 PH.D. 1966	3854 NEW SALEM CIRLE OKEMOS, MI 48864 (517)349-3405	UPTRAN MICHIGAN D.O.T. 425 W. OTTAWA, BOX 30050 LANSING, MI 48909 (517)373-2907	BUS. STAT.
HU, STEVE 胡殿中		STUDENT DEPT OF STAT U. OF GEORGIA	
HUA, TSUSHUNG 花子雄 PH.D. 1980	902 W. TAYLOR DEKALB, IL 60115 (815)758-8334	ASST. PROFESSOR DEPT. OF MATH. SCIENCE NORTHERN ILLINOIS UNIV. DEKALB, IL 60115 (815)753-0567	PROB. & MATH. STAT.
HUANG, 黄奇伟	BOX 246 SUB 11 EDMONTON ALBERTA, CANADA T6G 2E0		
HUANG, CHUNG L. 黄传耀 PH.D. 1976		DEPT. OF AGRI. ECONOMICS UNIV. OF GEORGIA EXPERIMENT, GA 30212 (404)228-7231	
HUANG, DAVID C. 黄曲 PH.D. 1978	1220 CARRIAGE PLACE KALAMAZOO, MI 49008 (616)344-8358	RES HEAD BIOSTAT/7293-32-2 THE UPJOHN COMPANY 301 HENRIETTA ST. KALAMAZOO, MI 49001 (616)385-6786	BIOSTAT.
HUANG, JIANN-SHIUN 黄建勳 B.S. 1976	201 PRAPER'S MEADOW APTS BLACKSBURG, VA 24060 (704)961-2426	403 W. HUTCHESON HALL VIRGINIA TECH. BLACKSBURG, VA 24061 (704)961-5933	PROB. & MATH. STAT.
HUANG, JIN-SHENG 黄金生 PH.D. 1970	27 VANIER DR. APT 1002 GUELPH, ONT. CANADA N1G 2L1 (519)836-8125	ASSO. PROFESSOR DEPT. OF MATH/STAT. UNIV. OF GUELPH GUELPH, ONT. CANADA (519)824-4120 EXT 2736	
HUANG, LEE 黄立文 PH.D. 1976	47 DEERFIELD LN S. PLEASANTVILLE, NY 10570 (914)747-1255	MANAGER DEPT OF BIOMETRICS, REVLON 1 SCARSDALE RD TUCKAHOE, NY (914)779-6300	BIOSTAT.
HUANG, M. I. 黄明儀 B.S. 1980	239 PRINCE HOUSE, UMASS AMHERST, MASS 01003 (413)546-9979	STUDENT	MATH. STAT.
HUANG, MEI-MOUN 黄美满 M.S. 1984	201 N. CHARTER ST. MADISON, WI 53715 (608)251-1203	STUDENT UW-MADISON	

HUANG, MIN-CHING 黄铭欽	302A EAGLE HTS MADISON, WI 53705 (608)231-2504	STUDENT UW-MADISON	
HUANG, SU-CHEN		STUDENT DEPT OF STAT U. OF GEORGIA	
HUANG, WEI-MIN 黄伟民 PH.D. 1982	3060 OAKLAND RD. BETHLEHEM, PA 18017 (215)867-5464	ASST. PROFESSOR DEPT. OF MATH. LEHIGH UNIV. BETHLEHEM, PA 18015 (215)861-3735	O.R. PROB. MATH. STAT. & BIOST.
HUNG, HSIEN-MING 洪賢明 PH.D. 1983	308 W. 11TH ST. MORRIS, MN 56267 (612)589-2532	ASST. PROFESSOR RM 255, SCIENCE BLDG UNIV. OF MINNESOTA MORRIS, MN 56267 (612)589-2211 X2532	ECON. SURVEY SAMPLING MATH. STAT.
HUNG, TZE-HSI 黄紫屏		STUDENT SCHOOL OF STAT 270 VINCENT HALL U. OF MINNESOTA MPLS, MN 55455	
HWANG, CHING-CHANG 黄清常		STUDENT DEPT. OF STAT. KANSAS STATE UNIV. MANHATTAN, KS 66506	
HWANG, D.S. 黄達雄 PH.D. 1971		SANDOZ RES. INST. SANDOZ INC. RT10 EAST HANOVER, NJ 07936 (201)386-7909	
HWANG FRANK K. 黄光明 PH.D. 1968	139 KING GEORGE RD. WARREN, NJ 07060 (201)560-0941	MTS BELL LAB 2C379 BELL LABS MURRAY HILL, NJ 07974 (201)582-4733	O.R. APPLIED PROB.
HWANG, JIUNN-TZON 黄俊宗 PH.D. 1979	109 SYCAMORE DR. ITHACA, NY 14850 (607)257-6568	ASST. PROFESSOR DEPT OF MATH CORNELL UNIV. (607)256-3443	
JANG, ROUH-LIN		STUDENT DEPT OF STAT U. OF GEORGIA	
JENG, TIAN-TZER 鄭天澤 M.S. 1984	89 W. 8TH AVE. COLUMBUS, OH 43201 (614)291-6335	G.T.A. 1958 NEIL AVE., #141 COLUMBUS, OH 43210 (614)422-3893	PROB. MATH. STAT.
JU, ZHONGREN SUSAN 睢重仁	#14 COONEY HALL 1300 W. COLUMBIA AVE. PHILADELPHIA, PA 19122		
JUANG, SHING-HER 莊聲和 M.S. 1979	673 STARK CT. COLUMBUS, OH 43201 (614)263-0014	STUDENT O.S.U. 1958 NEIL COLUMBUS, OH 43210 (614)422-3893	NONPAR. MULTIVAR.

KANG, YOOU-JEN 410 PAMMEL CT. STUDENT
 康有仁 AMES, IA 50010 IOWA STATE UNIV.
 AMES, IA 50011

KAO, PEI-CHUEN 154 KETTEN CT. ENGINEER
 高培椿 NAPERVILLE, IL 60540 RM 1C411, AT&T BELL LAB.
 (312)357-2479 1200 E. WARRENVILLE RD.
 NAPERVILLE, IL 60566
 (312)979-0886

KAO, SAMUEL C. 26 CORNWALLS RD. SCIENTIST BIOSTAT.
 高正雄 EAST SETAUKET APPLIED MATH. DEPT 515 ENG. STAT.
 PH.D. 1972 NY 11733 BROOKHAVEN NATL LAB. PROB.
 UPTON, NY 11973 MATH. STAT.
 (516)282-4138

KAO, W.W. L. SYSTEM ANALYST
 高凌薇 COMP. CTR. VANDERBILT U.
 M.S. 1975 BOX 1577 STATION B
 NASHVILLE, TN 37235
 (615)322-2357

KI, Y.C. FANNY 1010 MOUND ST. #420 STUDENT
 祁婉菁 MADISON, WI 53715 DEPT OF STAT.
 B.S. 1981 (608)267-6547 UW-MADISON

KO, HAU-MEI BIOSTATISTICIAN
 柯好美 I.C.I. AMERICA INC.
 M.S. 1970 WILMINGTON, DE 19897
 (302)575-8926

KONG, M.C. STUDENT O.R.
 江萬祥 DEPT OF MATH., U. OF ILL. MATH. STAT.
 M.S. 1980 URBANA, IL 61801
 (217)333-6329

KUK, ANTHONY DEPT OF STAT. PROB.
 葛永祥 UNIV. OF HONG KONG MATH. STAT.
 PH.D. 1984 POKFULAM RD.
 HONG KONG

KUNG, FAN H. PROFESSOR
 孔繁浩 DEPT OF FORESTRY
 PH.D. 1968 CARBONDALE, IL 62901 SOUTHERN ILLINOIS UNIV.
 (618)549-1800 CARBONDALE, IL 62901
 (618)453-3341

KUO, HSIN-KWANG ECONOMETRICIAN
 郭新光 WHITEHOUSE STATION AT&T COMMUNICATIONS 2A101
 M.A. 1971 NJ 08889 BEDMINSTER, NJ 07921
 (201)534-4771 (201)234-8732

KUO, MARIA HU STATISTICIAN
 胡益華 WHITEHOUSE STATION AT&T COMMUNICATIONS 4A250
 M.PH. 1972 NJ 08889 BEDMINSTER, NJ 07921
 (201)534-4771 (201)234-8309

KUO, S.M. STUDENT
 郭幸民 #584, JONES TOWER DEPT OF STAT. 1566 NEIL
 COLUMBUS, OH 43201 OHIO STATE U.
 (614)421-2463

KUO, YOW-JEN 1207 CHANDLER ST. STUDENT
 郭又禎 MADISON, WI UW-MADISON
 (608)257-0849

KWEI, LONG SYNTEX RES. (A3-330) BIOSTAT.
 桂龍 3401 HILLVIEW AVE.
 PALO ALTO, CA 94303

KWOK, LINDA DEPT OF COMP. SCI. & APPLIED
 黃希真 515 COLUSA AVE. MATH. BLDG. 50B, RM 3245
 BERKELEY, CA 94707 LAW, BERKELEY LAB.
 (415)526-2963 BERKELEY, CA 94720

LAI, JIA-YEE STUDENT
 賴甲乙 DEPT OF STAT
 U. OF GEORGIA

LAI, LILY K. DIRECTOR-CORPORATE DEVELOP. BUS. STAT.
 賴鄧百合 50 STONERIDGE RD. AT&T, RM 29-1641 ECONOMOM.
 SUMMIT, NJ 07901 550 MADISON AVE.
 (201)464-5987 NEW YORK, NY 10022
 (212)605-6987

LAI, SON-LIN SR. ECONOMIST BUS. STAT.
 賴松齡 50 STONERIDGE RD. OFFICE OF THE ECONOMISTS ECONOM.
 SUMMIT, NJ 07901 NJ BOARD OF PUBLIC UTIL.
 (201)464-5987 1100 RAYMOND BLVD.
 NEWARK, NJ 07102
 (201)648-3454

LAI, SUE-MIN STUDENT
 賴素敏 1183 PYNCHON HALL RD. DEPT OF STAT., TEMPLE U.
 WEST CHESTER, PA 19382 PHILADELPHIA, PA 19122
 (215)787-6828

LAI, TZE-LEUNG PROFESSOR
 黎子良 1 AMHERST DRIVE DEPT OF STAT.
 HASTINGS-ON-HUDSON COLUMBIA UNIV., W. 116 ST.
 NY 10706 NEW YORK, NY 10027
 (212)280-3653

LAM, HING-KAM LECTURER
 林應全 DEPT OF STAT.
 PH.D. 1978 THE CHINESE UNIV. OF H.K.
 SHATIN, N.T. HONG KONG

LAM, JAN-JAN 2C CORPORATE RES.
 張錚錚 7897 LITTLE FOX LANE BOX 1798
 JAKSON VILL, FL 32216 BLUE CROSS & BLUE SHIELD
 OF FLA.
 JAKSON VILLE, FL 32231

LAN, GORDON STATISTICIAN BIOSTAT.
 藍光國 11800 ROSALINDA DR. FEDERAL BLDG., RM 2A11
 POTOMAC, MD 20854 BETHESDA, MD 20205
 (301)983-9527 (301)496-5905

LAU, TAI-SHING ASST. PROFESSOR
 劉大成 (716)836-8205 DEPT OF STAT. SUNY
 59 W. CLEVELAND DR.
 PH.D. 1983 BUFFALO, NY 14215
 (716)831-3157

LEE, AUSTIN F.S. 李豐盛 PH.D. 1972	9 CARNEGIE PLACE LEXINGTON, MA 02173 (617)861-7573	ASST. PROFESSOR DEPT OF MATH., BOSTON U. 111 CUMMINGTON ST. BOSTON, MA 02215 (617)353-7843	BIOSTAT. BUS. STAT.	LEE, MOUN-SHEN 李茂森 PH.D. 1984	1308 NORTHWEST APTS MT. PLEASANT, MI 48859 (517)774-4565	ASST. PROFESSOR PE219, DEPT OF MATH. CENTRAL MICH. UNIV. MT. PLEASANT, MI 48859 (517)774-6520	BIOSTAT.
LEE, C. CATHY 李鍾琪 M.S. 1968	1122 JADE DR. BEL. AIR, MD 21014 (301)879-5987	MATH. STAT. RELIAB./LOG SUPPORT. DIR. HQ, US ARMY TEST & EVAL ABERDEEN PROVING GD. MD 21005-5055 (301)278-3026/3805	ENG. STAT. O.R.	LEE, PAUL S.T. 李煥棟 PH.D. 1973		ASST. PROFESSOR DEPT OF BUSINESS ADMIN. NORTH CAROLINA A&T STATE U. 1601 E. MARKET ST. GREENSBORO, NC 27411 (919)379-7744	BUS. STAT. O.R.
LEE, C. CHARLES 李楚堯 PH.D. 1975	17 HIGHLAND DR. ST. JOHN'S, NF A1A 3C3 CANADA (709)754-1807	ASST. PROFESSOR MEMORIAL UNIV. OF NEWFOUNDLAND ST. JOHN'S, NF CANADA A1C5S7 (709)737-8730	PROB. MATH. STAT.	LEE, RALPH M. 李茂坊 PH.D. 1981	17108 LABURNUM CT. ROCKVILLE, MD 20855 (301)963-4823	MATH. STAT. SMD, BUREAU OF THE CENSUS WASHINGTON DC. 20233 (301)763-4150	
LEE, C. JACK 李昭勝 PH.D. 1972	19 BRANKO RD. BERKELEY HTS, NY 07922 (201)322-1743	MEMBER OF TECH. STAFF BELL COMMUNICATIONS RES. MRE. 20-374 MORRISTOWN, NJ (201)829-4396	ECONOM. BUS. STAT. PROB. MATH. STAT.	LEE, RICH 李瑞琦		STUDENT DEPT OF STAT., TEMPLE U. PHILADELPHIA, PA 19122	
LEE, C.S. 李全序	52 E. MAIN ST. NEWARK, DE 19711 (302)368-5941			LEE, RU-YING 李儒英 PH.D. 1972	1026 PINETOWN RD. FT. WASHINGTON PA 19034 (215)542-7557	COMPUTER SCIENTIST 101 MASONS MITLA RD. HUNTINGDON VALLEY, PA 19006 (215)657-4500	COMP. STAT.
LEE, CHE-FU 李哲夫 PH.D. 1971	10408 GREAT ARBOR DR. POTOMAC, MD 20854 (301)983-1269	PROFESSOR DEPT OF SOCIOLOGY CATHOLIC UNIV. OF AMERICA WASHINGTON DC. 20064	BIOSTAT. SOC. STAT.	LEE, SHIH-CHANG 李世昌 M.S. 1981	673 STARK CT. COLUMBUS, OH 43201 (614)263-0014	STUDENT O.S.U.	CENSORED DATA
LEE, CHINSAN 黎進三	(301)422-9507	STUDENT DEPT OF MATH U. OF MARYLAND COLLEGE PARK, MD 20742		LEE, SIK-YUM 李錫欽 PH.D. 1977		PROF. DEPT OF STAT THE CHINESE U. OF H.K. SHATIN, HONG KONG	PSYCHO- METRICS
LEE, ELISA T. 譚靜如 PH.D. 1974	1812 VALLY RIDGE NORMAN, OK 73069 (405)360-2873	PROFESSOR DEPT OF BIostat. & EPID. U. OF OKLAHOMA, P.O. BOX 26901 OKLAHOMA CITY, OK 73190 (405)271-2229	BIOSTAT.	LEE, TZAO-LIN 李肇林 M.S. 1978			
LEE, JOHN G. 李 鈞 PH.D. 1970	1205 BUNKER HILL DR KALAMAZOO, MI 49009 (616)975-1956	BIostatISTICIAN 7000 PORTAGE RD KALAMAZOO, MI 49001 (616)323-6661	BIOSTAT.	LEE, TZE-SAN 李子酸 PH.D. 1976	330 JAMESTOWN MACOMB, IL 61455 (309)837-1627	ASST. PROF. DEPT OF MATH., W. ILL. UNIV. MACOMB, IL 61455 (309)298-1485	ENG. STAT. O.R. PROB. & MATH. STAT.
LEE, M.L. TING 丁美齡 PH.D. 1980	94 EAST STREET NORTH GRAFTON, MA 01536 (617)839-3546	DEPT. OF MATH. BOSTON U. 111 CUMMINGTON ST. BOSTON, MA 02215 (617)353-3022	ENG. STAT. PROB. MATH. STAT.	LEU, CHING-HO 呂金河	903D EAGLE HEIGHTS MADISON, WI 53705 (608)233-6238	STUDENT UW-MADISON	
LEE, MONG-HONG 李孟峰 M.S. 1984	116(1/2) WELH AVE. #6 AMES, IA 50010	STUDENT 305 SNEDECOR IOWA STATE UNIV. AMES, IA 50011	O.R.	LEUNG, H.M. 梁海明		FDA, HFN-713 5600 FISHERS LANE ROCKVILLE, MD 20857 (301)443-4594	
				LI, HSIN-GEE 李信吉 B.S. 1975	1500 W. PLUM #11C FT. COLLINS, CO 80521 (303)491-7076	STUDENT DEPT OF STAT. COLORADO STATE UNIV. (303)491-7539	PROB. MATH. STAT.
				LI, JANE C. 黎喬家瑜 PH.D. 1971	620 ROLLING LN ARLINGTON HTS, IL 60004 (312)577-0747	MANAGER UDP INC. DES PLAINES, IL 60016 (312)391-2442	ENG. STAT.

LI, JUNFANG

STUDENT
DEPT OF STAT
COLORADO STATE U.
FORT COLLINS, CO 80523

LI, KER-CHAU
李克昭
PH.D. 1980

ASST. PROFESSOR
DEPT OF MATH.
UCLA
LOS ANGELES, CA 90024

PROB.
MATH. STAT.

LI, L. LORETTA

PH.D. 1973

MANAGEMENT SCIENCE
SOUTHLAND CORP.
2828 N. HASKELL AVE.
DALLAS, TX 75221

LI, MINGCHE M.
李明哲

DEPT OF ECONOMICS
SUNY AT STONYBROOK
STONYBROOK, NY 11733
(617)492-7100-EXT332

LI, SHOU-HUA
李守華
PH.D. 1975

4413 WOODFIELD RD.
KENSINGTON, MD 20895
(301)564-0133

BIostatistician
RM 538 WESTWOOD BUILD
NATL. INST. OF HEALTH
BETHESDA, MD 20892
(301)496-7716

PROB.
MATH. STAT.
BIostat.

LI, WAI-KEUNG
李偉強

LECTURER
DEPT OF STAT.
UNIV. OF HK

LIAO, ALICE Y.
廖雲英
M.S. 1979

BIostatistician
FMC. CORP., 100 NIAGARA ST.
MIDDLEPORT, NY 14105
(716)735-3761

BIostat.

LIAO, HENRY M
廖茂雄
PH.D. 1975

28292 PASEO CORRALES
SAN JUAN CAPISTRANO
CA 92675

SR. BIostat.
R & D KENDALL-MCGAW LABS
2525 MCGAW AVE.
IRVINE, CA 92714
(714)660-2079

LIEN, S.
連素娥

250 W. NORWICH AVE #2C
COLUMBUS, OH 43201
(614)291-9235

STUDENT
DEPT OF STAT, 1566 NEIL
OHIO STATE U.

LII, KEH-SHIN
李克信
PH.D. 1975

315 MARAVILLA DR.
RIVERSIDE, CA 92507
(714)788-0651

ASST. PROFESSOR
STAT. DEPT. UC-RIVERSIDE
RIVERSIDE, CA 92521
(714)787-3836

LIN, AMY H.
石連雲
M.A. 1976

19 MONTGOMERY AVE
MONTVILLE, NJ 07045
(201)299-9795

STATISTICIAN
HOFFMANN-LA ROCHE INC.
RES. STAT
NUTLEY, NJ 07110
(201)235-3534

BIostat.

LIN, CHANG-YANG
林昌洋
M.S. 1978

ROBBINS APTS. #20
ROBBINS DRIVE
RICHMOND, KY 40475
(606)624-1667

ASST. PROFESSOR
DEPT OF FINANCE &
BUSINESS SYSTEM
EASTERN KENTUCKY UNIV.
(606)622-1576

ECONOM.
BUS. STAT.
O.R.

LIN, CHAR-LUNG
林家隆
PH.D. 1982

1845 S. CORINTH AVE.
#209
L.A., CA 90025

STAT./PROG.
BMDP STAT. SOFTWARE INC.
1964 WESTWOOD BLVD. SUITE 202
L.A., CA 90025
(213)475-5700

STAT. COMP.

LIN, CHI C.
林齊珍
PH.D. 1969

RR2, BOX 168
GREONFIELD, IN 46140
(317)894-8854

SENIOR GENETIST
ELLI LILLY & CO.
LILLY RESEARCH LAB.
P.O. BOX 708
GREONFIELD, IN 46140
(317)462-8648

BIostat.

LIN, CHI-YUAN
林基源
PH.D. 1968

2957 CASTLE HTS. AVE.
L.A., CA 90034
(213)837-6274

PROFESSOR & CHAIRMAN
UNIV. OF S. CALIF.
SCHOOL OF BUS. ADMIN.
L.A., CA 90089
(213)743-2446

BUS. STAT.
DECISION
THEORY

LIN, CHIOU-HUA
林秋華

STUDENT
DEPT OF STAT
IOWA STATE U.

LIN, ELSA
林宜
PH.D. 1976

1506 DELGADO AVE.
CORAL GABLES, FL 33146
(305)667-4430

DEPT OF MATH.
UNIV. OF MIAMI
CORAL GABLES, FL 33124
(305)284-2575

PROB.
MATH. STAT

LIN, GUANG C.
林光春
M.S. 1967

1702 AFTONSHIRE DR.
GREENSBORO, NC 27410
(919)288-8665

O.R. ANALYST
BURLINGTON INDUSTRIES
P.O. BOX 21207
GREENSBORO, NC 27410
(919)379-2340

O.R.

LIN, HSING-HSIEN
林信賢

801 D. ST #9
DAVIS, CA 95616
(916)753-6241

STUDENT
DEPT OF STAT., UC-DAVIS
DAVIS, CA 95616

LIN, J. I.
林瓊瑩

6161 REIMS #1105
HOUSTON, TX 77004
(713)995-9369

LIN, JYH-SHIUN
林志勳
BC 1979

634 PAMMEL CT.
AMES, IA 50010
(515)292-4336

STUDENT
IOWA STATE UNIV.

LIN, KARL K.F.
林昆峯
PH.D. 1979

20711 CRANFIELD DR.
KATY, TX 77405
(713)492-6674

SR. BIostat.
TECH. INC. LIFE SCI. DIV.
20711 CRANFIELD DR.
KATY, TX 77450
(713)488-8111

PROB.
MATH. STAT

LIN, KON-JIN
林共進

301E EAGLE HEIGHTS
MADISON, WI 53705
(608)233-3785

STUDENT
UW-MADISON

LIN, LAWRENCE I.K.
林一慶
PH.D. 1979

2565 RIVERWOODS RD.
RIVERWOODS, IL 60015
(312)945-0448

RES. STATISTICIAN
STAT. SERVICE, TRAVENOL LABS
6301 LINCOLN AVE.
MORTON GROVE, IL 60053
(312)965-4700-X3177

BIostat.

LIN, LILLIAN
林麗洛
M.S. 1980

4055 8TH AVE. NE
SEATTLE, WA 98105
(206)633-2474

STUDENT
DEPT OF BIostat. U. OF WASH.
SEATTLE, WA 98195
(206)543-1044

BIostat.

LIN, LUNG-YING 林良盈 PH.D. 1976	623 HARLEY DR #5 COLUMBUS, OH 43202 (614)267-3754	PROFESSOR DEPT OF APPLIED STAT. NAT. CHUNG-HSIN UNIV. TAICHUNG, TAIWAN	BIOSTAT.	LIU, CHI, SHELLEY 劉德利 PH.D. 1978	1939 FOUNTAIN RIDGE RD. CHAPEL HILL, NC 27514 (919)967-5355	STATISTICIAN LIPIDS, DEPT OF BIOSTAT. UNIV. OF NORTH CAROLINA CHAPEL HILL, NC 27514 (919)933-6971	BIOSTAT.
LIN, LYNN Y.S. 林蕙祥 PH.D. 1974	1115 BRAYTON AVE. CINCINNATI, OH 45215 (513)761-6395	2621 VICTORY PARKWAY CINCINNATI, OH 45206 (513)559-7116	BUS. STAT. PROB. MATH. STAT.	LIU, HANNAN H. 劉衍能 PH.D. 1982	33 OLD QUARRY DR WEYMOUTH, MA 02188	STATISTICIAN SERONO LAB INC. 280 POND ST RANDOLPH, MA 02368 (617)963-8154	BIOSTAT.
LIN, MEILY 林義利	623 HARLEY DR #5 COLUMBUS, OH 43202 (614)267-3754	STUDENT DEPT OF STAT, 1566 NEIL OHIO STATE U.		LIU, HUEI-HO 何惠 PH.D. 1982		STUDENT DEPT OF STAT U. OF GEORGIA	
LIN, OSCAR C. 林吉雄 PH.D. 1978	3306 EASTSIDE DR. LOU, KY 40220 (502)499-9804	STATISTICIAN B&W TOBACCO CO. R&D 1600 W. HILL ST. LOUISVILLE, KY 40201 (502)774-7927	ENG. STAT.	LIU, JIAN		STUDENT DEPT OF STAT COLORADO STATE U.	
LIN, PI-ERH 林丕二 PH.D. 1968	2108 SKYLAND DR. TALLAHASSEE, FL 32303 (904)386-5913	PROFESSOR DEPT OF STAT., F.S.U. TALLAHASSEE, FL 32306 (904)644-3218		LIU, KIANG 劉江 PH.D. 1976	2942 ACORN LANE NORTHBROOK, IL 60062 (312)480-1464	ASSOC. PROFESSOR DEPT OF COMMUNITY HEALTH & PREV. MEDICINE NORTHWESTERN UNIV. 303 E. CHICAGO AVE. CHICAGO, IL 60611 (312)649-8307	BIOSTAT.
LIN, SHANG PING 林尚平 PH.D. 1977	6 CHAPARRAL RD. SPRING VALLEY NY 10977 (914)623-8918	RESEARCH SCIENTIST NATHAN KLINE INSTITUTE ORANBURG, NY 10962 (914)359-1050	BIOSTAT. PROB. MATH. STAT.	LIU, LON-MU 劉榮木 PH.D. 1978	949 N. LOMBARD AVE. OAK PARK, IL 60302 (312)383-1797	ASST. PROFESSOR DEPT OF INFO & DECISION SCI U.I.C.C. BOX 4348 CHICAGO, IL 60680 (312)996-5547	BUS. STAT. STAT. COMP. ECONOM.
LIN, SHEN-YEN 林森源 M.S. 1981	1985 KNAPP AVE. W-1 ST. PAUL, MN 55108 (612)645-2534	VIN270 DEPT OF STAT. UNIV. OF MINNESOTA (612)376-7205	PROB. MATH. STAT.	LIU, PATRICK M.C. 劉明中		STUDENT DEPT OF STAT U. OF GEORGIA	
LIN, THOMAS C. 林魯莊 PH.D. 1978	246 OAKEREST LANE ZION, IL 60099 (312)746-5424	BIOSTATISTICIAN D-431 ABBOTT LAB. NORTH CHICAGO, IL 60064 (312)937-3027	BIOSTAT.	LIU, PING-YU 劉平宇 PH.D. 1978	501 SANDRETTO DR. SEBASTOPOL, CA 95472 (707)829-1743	STAT. PRODUCT ASSURANCE DEPT. H.P. 1UR-C 1212 VALLEY HOUSE DR. ROHNERT PARK, CA 94928 (707)794-4188	BIOSTAT.
LIN, TSAI-LIEN 林彩蓮 PH.D. 1984		STATISTICIAN WYETH LAB., P.O. BOX 8299 PHILADELPHIA, PA 19101 (215)341-5716		LIU, S.T. 劉信達 PH.D. 1976		PLANT STAT. YIELD ENG. SIGNETICS 9201 PAN AMERICAN FWY. NE ALBUQUERQUE, NM 87184	BUS. STAT.
LIN, TSUNG-HUA 林宗華 MA 1983	169 B UNIV. VILLAGE AMES, IA 50010 (515)294-8927	STUDENT IOWA STATE UNIV.		LIU, SHUGNEY C. 劉邱淑桂 M.S. 1973	2942 ACORN LANE NORTHBROOK, IL 60062 (312)480-1464	INSTRUCTOR DEPT OF PREV. MEDICINE 1753 W. HARRISON ST. CHICAGO, IL 60612 (312)942-3476	BIOSTAT.
LIU, ANDREW A. 劉安中 PH.D. 1976	46 CARTWRIGHT DR. E. PRINCETON JUNCTION NJ 08550	BIOSTATISTICIAN FMC CORPORATION AGRI. CHEM. GR. 100 NIAGARA ST. MIDDLEPORT, NY 14105 (716)735-3761 EXT 304	BIOSTAT.	LIU, TZEN-PING 劉正平		DEPT. OF SYS. DESIGN ENG. UNIV. OF WATERLOO WATERLOO, ONT N2L 3G1	
LIU, BEN-CHIEH 劉本傑 PH.D. 1971	5360 PENNYWOOD DR. LISLE, IL 60532 (312)964-0236	PROFESSOR OF M&IS. CHICAGO STATE UNIV. 95TH ST. KING DR. CHICAGO, IL 60628 (312)995-3951	BUS. STAT. ECONOM.	LIU, WALLACE 劉清白 PH.D. 1979	6154 CALLISCH FRESNO, CA 93710 (209)435-0795	ASSOC. PROFESSOR DEPT OF ISDS, CSUF FRESNO, CA 93710 (209)294-2392	ENG. STAT. STAT. COMP.

LIU, YUMING		STUDENT DEPT OF STAT U. OF GEORGIA ATHENS, GA 30602		LU, YU, FRANCES 1230 AVE DE LOS ARBOLES THOUSAND OAKS, CA 91360 (805)493-2619	EMERITUS FACULTY DEPT OF MATH. SCI., BIOLA U. LA MIRADA, CA 90639 (213)944-0351-3288	PROB. MATH. STAT.	
LO, NANCY C.H. 羅 野 輝 PH.D. 1972	2575 ARDATH TD. LA JOLLA, CA 92037 (619)459-7313	BIOSTAT. SOUTHWEST FISHERIES CTR. NAT. MARINE FISHERIES SERV. P.O. BOX 271 LA JOLLA, CA 92038 (619)453-2820	BIOSTAT.	LUI, JUSTIN 雷 永 强 M.A. 1980	920 LAKE PLACID DR. SE. CALGARY, ALBERTA CANAD, T2J 4C2 (403)278-2582	STUDENT DEPT OF MATH., U. OF WATERLOO CANADA, N2L 3B9 (519)886-2968	ECONOM. TIME SER.
LO, SHAW-HWA 羅 小 華 PH.D. 1981		ASST. PROFESSOR DEPT OF STAT., RUTGERS U. HILL CTR. BUSCH CAMPUS NEW BRUNSWICK, NJ 08903	PROB. & MATH. STAT.	MAO, IVAN L. 毛 麟 PH.D. 1970		PROFESSOR DEPT OF ANIMAL SCIENCE MICHIGAN STATE UNIV. E. LANSING, MI 48824 (517)355-8443	BIOSTAT.
LOH, WEI-YIN 羅 偉 賢 PH.D. 1982	21D UNIV. HOUSES MADISON, WI 53705 (608)233-1948	ASST. PROFESSOR UNIV. OF WISCONSIN MADISON, WI 53706 (608)262-7790	PROB. & MATH. STAT.	MEI, MARIA Y.C. 梅 運 表 M.S. 1979		PROGRAMMER ANALYST EPIDEMIOLOGY RES. UNIT UNIV. OF TEXAS SPH HOUSTON, TX 77030 (713)792-4651	BIOSTAT.
LU, AN-LING 陸 安 玲 PH.D. 1981	11946 HARBOUR LIGHT N. ROYALTON, OH 44136 (216)237-9490	DURKEE FOODS 16651 SPRAGUE STRONGSVILLE, OH 44136 (216)826-5511	BIOSTAT. ENG. STAT. BUS. STAT. FOOD SCI.	MI, MING-PI 米 明 墜 PH.D. 1963	7524 MANULELE PL. HONOLULU, HI 96825 (808)395-7654	PROFESSOR DEPT OF GENETICS SCHOOL OF MEDICINE UNIV. OF HAWAII HONOLULU, HI 96822 (808)948-8551	BIOSTAT.
LU, CHI-HSIEN 路 繼 光	5157 BUCHANAN HALL AMES, IA 50013	STUDENT IOWA STATE UNIV.		PAN, WILLIAM S.Y. 潘 福 徵 PH.D. 1974	6 WHITE OAK LANE WOODBRIIDGE, CT 06525 (203)393-3936	COLLEGE PROFESSOR UNIV. OF NEW HAVEN 300 ORANGE AVENUE WEST HAVEN, CT 06516 (203)934-6321 EXT417	BUS. STAT. O.R.
LU, H. HANK 呂 信 賢 PH.D. 1980	6700 COPPERFIELD RD. LOUISVILLE, KY 40207	MARKETING RES. MGR. MARKETING JH. SYSTEMS INC. 250 E LIBERTY ST, SUITE 100 LOUISVILLE, KY 40202 (502)581-1168	BUS. STAT. O.R.	PAN, WINKY 潘 問 魁	#603, JONES TOWER 101 CURL DR COLUMBUS, OH 43201 (614)421-7470	STUDENT DEPT OF STAT., 1566 NEIL OHIO STATE U. COLUMBUS, OH 43201	
LU, I. LE 路 一 立	20023 FORT BRIDGER KATY, TX 77449 (713)578-1030	EXXON PRODUCTION RES. CO. P.O. BOX 2189 HOUSTON, TX 77001 (713)940-4879	ENG. STAT.	PENG, CHAO-YING 彭 昭 英 PH.D. 1979	#12-0, 800 N. SMITH RD. BLOOMINGTON, IN 47401 (812)336-8363	ASST. PROFESSOR 140 SMITH RES. CTR. INDIANA UNIV. BLOOMINGTON, IN 47405 (812)335-0986	EDU. STAT.
LU, JUDY 林 明 美		CHAMBER OF COMMERCE ECONOMIC POLICY DIV. 1615 H. ST. W.W. WASHINGTON, D.C. 20062 (202)659-3165		PENG, NAN-FU	587 HARLEY DR #7 COLUMBUS, OH 43202 (614)262-3801	STUDENT DEPT OF STAT., 1566 NEIL OHIO STATE U.	
LU, JYE-CHYI 盧 捷 琦		STUDENT DEPT OF STAT. UW-MADISON		PERNG, S.K. 彭 光 忠 PH.D. 1968	2310 TERRY WAY MANHATTAN, KANSAS	PROFESSOR DEPT OF STAT., KANSAS S.U. MANHATTAN, KS 66506 (913)532-6882	PROB. MATH. STAT.
LU, KWANG 陸 琬 MS. 1960, 80	2616 EVERGREEN ST. YORKTOWN HEIGHTS NY 10598 (914)245-5216	SYSTEMS ANALYST IBM, 1000 WESTCHESTER AVE. WHITE PLAINS, NY 10604 (914)696-7237	ENG. STAT. COMP. SCI.	PERNG, SHIEN-SEN 彭 賢 森 PH.D. 1974	8458 RUSHING CREEK CT. SPRING FIELD, VA 22153	IRS/RESEARCH DIVISION 1201 E. ST. NW. WASHINGTON DC. 20224 (202)376-0225	O.R. MATH. STAT.
LU, XIAO-YAN 路 小 岩		STUDENT DEPT OF STAT., TEMPLE U. PHILADELPHIA, PA 19122		PO, SZU-TING 卜 思 汀 M.S. 1976		IVES LAB. 685 THIRD AVE. NEW YORK, NY 10017 (212)878-6516	BIOSTAT.

POW, MAN-KUE 鮑文巨	2001 BRIGGS RD SILVER SPRING, MD 20906 (301)946-3351	STUDENT DEPT OF MATH U. OF MARYLAND COLLEGE PARK, MD 20742		SHIH, WEI-CHUNG 施維中 PH.D. 1981	301 N. RANDOLPHVILLE RD APT. 69 PISCATAWAY NJ 08854 (201)752-1143	BIOMETRICIAN MARCK SHARP AND DOHME RESEARCH LAB. P.O. BOX 2000 WB D-216 RAHWAY, NJ 07065-0914 (201)750-8163	BIOSTAT. ENG. STAT. PROB. MATH. STAT.
PUN, FU-CEAYONG 潘福祥 PH.D. 1980	49 WINTER HILL RD. MADISON, CT 06443 (203)421-5139	SUPERVISION OF BIOSTAT. CLINICAL RESEARCH PFIZER INC. EASTER POINT RD GORTON, CT 06340 (203)441-3256	BIOSTAT.	SHIH, WEN-FU P. 彭文富 ABD 1972	1000 N. W. 39TH ST. GAINESVILLE, FL 32605 (904)372-4121	DEAN ASSISTANT THE GRAD. SCHOOL & RES. U. OF FLORIDA, 2208 NW 29TH ST GAINESVILLE, FL 32611 (904)392-4646	SURVEY RES SOC. STAT.
SHAO, JUN 邵軍 B.S. 1982	660 STATE ST. #1B MADISON, WI 53713 (608)256-5595	STUDENT UW-MADISON		SHU, V.S. 許文雄 PH.D. 1978		GROUP LEADER CLINICAL STAT., ABBOTT LABS NORTH CHICAGO, IL 60064 (312)937-8281	
SHEN, CHIH-CHUNG 沈致中 PH.D. 1983		BIOSTAT ALLERGAN PHARMA. 2525 DUPONT DR. IRVINE, CA 92715 (714)752-4500		SHUI, JOE H. 徐達崑 M.S. 1962		ASSOC. SEC. HEAD (PHARMACEUTICAL) ROUTE 10 E. HANOVER, NJ 07058 (201)386-8113	
SHEN, FRANK 沈志華		STUDENT DEPT OF STAT., TEMPLE U. PHILADELPHIA, PA 19122		SHYR, JING-YUN 石靜雲 PH.D. 1984	2112 FAIRFAX AVE. APT #209 NASHVILLE, TN 37212 (615)383-4085	ASST. PROFESSOR OWEN GRAD. SCHOOL OF MANAGEMENT, VANDERBILT U. NASHVILLE, TN 37203 (615)332-3644	
SHEN, RANDOLPH F. 沈法淳 PH.D. 1964	RFD #1 W. KINGSTON, RI 02892 (401)364-8816	PROFESSOR DEPT OF MANAGEMENT SCI. 331 BALLENTINE HALL UNIV. OF RHODE ISLAND KINGSTON, RI 02881 (401)792-4214	BUS. STAT. ECONOM.	SIH, TIEN-SHAN 薛天山 PH.D. 1982	74-32 45TH AVE. ELMHURST, NY 11373	ASST. PROFESSOR QUEENS COLLEGE-CUNY FLUSHING, NY 11367	BUS. STAT. ECONOM.
SHEN, SYLVIA 沈世靚 PH.D. 1977	16902 BOUGAINVILLE FRIENDWOOD, TX 77546 (713)482-4723	RESEARCH SPECIALIST EXXON PRODUCTION RES. CO. P.O. BOX 2189 HOUSTON, TX 77001 (713)965-7276	ENG. STAT. PROB. MATH. STAT.	SOU, JOSEPH 蘇錫琳 M.S. 1973			BIOSTAT.
SHEU, SAN-JYE 許三傑	3009 UNIV AVE #609 MADISON, WI	STUDENT DEPT OF STAT UW-MADISON		SOU, YUH-WEN 蘇郁文 M.S. 1982	1249 DRAKE ST #3 MADISON, WI 53715 (608)256-4179	STUDENT DEPT OF STAT UW-MADISON	
SHIAU, J.J. HORNG 洪吉真 PH.D. 1985	401 CUMBERLAND COLUMBIA, MO 65203	ASST. PROFESSOR DEPT. OF STAT. COLUMBIA, MO 65211	O.R. MATH. STAT.	SOONG, W.C. 宋文昌	177 E. 14TH AVE COLUMBUS, OH 43201 (614)299-0884	STUDENT DEPT OF STAT, 1566 NEIL OHIO STATE U.	
SHIEH, SHWU-RONG 謝叔蓉	1323 W. DAYTON ST. #20 MADISON, WI 53715 (608)258-8929	STUDENT UW-MADISON		SU, SHIOW-LIN 蘇秀林		STUDENT DEPT OF STAT IOWA STATE U.	
SHIH, JOHN I 石乙 PH.D. 1981	5020 SW BUTTERNUT PL ALOHA, OR 97007 (503)642-7154	INDUSTRIAL STATISTICIAN TEKTRONIX INC., P.O. BOX 500 BEAVERTON, OR 97077 (503)627-1938	O.R. PROB. MATH. STAT. QA/PROC. CTRL.	SU, VINCENT 粟慶雄 PH.D. 1970	137 E. 36TH ST. NEW YORK, NY 10016 (212)684-7236	PROFESSOR, DEPT OF ECON. BARUCH COLLEGE, CUNY 17 LEXINGTON AVE. NEW YORK, NY 10010 (212)725-3066	BUS. STAT. ECONOM.
SHIH, WEI 史偉 PH.D. 1970	1024 CLARK ST. BOWLING GREEN, OH 43402 (419)352-6123	PROFESSOR DEPT OF APPLIED STAT & O.R. BOWLING GREEN S.U. BOWLING GREEN, OH 43403 (419)372-0229	BUS. STAT. O.R.	SUEN, YUEN-FURE 孫燕福 M.S. 1982	18770 TUGGLE AVE. CUPERTINO, CA 95014		BIOSTAT. EDU. STAT.

TAN, ELIZABETH 陳淑茹		STUDENT DEPT OF STAT., TEMPLE U. PHILADELPHIA, PA 19122		TONG, DONALD, D.M. 唐冬明	6634 EVERGREEN ST. KALAMAZOO, MI 49007 (616)327-3540	CLINICAL BIostat. THE UPJOHN CO. 7000 PORTAGE RD. KALAMAZOO, MI 49002 (616)323-7172	EDU. STAT. BIostat.
TAAM, WINSON 譚永生	1010 MOUND ST. #220 MADISON, WI 53715 (608)267-6542	STUDENT DEPT OF STAT UW-MADISON		TONG, YUNG L. 董永良	913 BYRNWYCK RD. ATLANTA, GA 30319 (404)843-9380	PROFESSOR SCHOOL OF MATH. GEORGIA INSTITUTE OF TECH. ATLANTA, GA 30332 (404)894-2700	ENG. STAT. PROB. O.R. MATH. STAT.
TAN, SUAN-BOON 陳川文		ASST. PROFESSOR DEPT OF MATH./STAT. UNIV. OF NEBRASKA LINCOLN, NEB 68588 (402)472-3731 X 276	ENG. STAT. PROB. MATH. STAT.	TSAI, CHIH-LING 蔡知令	#1, WASHINGTON SQ. VILLAGE RM 10H NY, NY 10012	ASST. PROFESSOR 40 W. 4TH ST. #524 DEPT OF APPLIED STAT. & OR NEW YORK, NY 10003 (212)598-3221	APPLIED STAT.
TAN, W. Y. 譚外元	8031 BROOXIE COVE GERMANTOWN, TN 38138 (901)755-5134	PROFESSOR DEPT OF MATH SCI. MEMPHIS STATE UNIV. MEMPHIS, TN 38152 (901)454-2492	BIostat. MATH. STAT. CANCER MODELLING STAT. ANAL.	TSAI, HUEI C. 蔡惠駒	39 ONKA DR. SOMERVILLE, NJ 08876 (201)359-7493	MANAGER IMMUNOBIOLOGY BIostat. ORTHO PHARMACEUTICAL CO. 18 CASPER BERGER RD. WHITEHOUSE STA., NJ 08889 (201)524-0975	BIostat. ECONOM.
TANG, CHI-MING 湯啓明	303 COUNTRY LANE GENESE0, NY 14454 (716)243-4901	ASST. PROFESSOR DEPT OF MATH. SUNY GENESE0, NY 14454 (716)245-5386	PROB. MATH. STAT. NUM. ANAL.	TSAI, MARIAN 蔡敏暉	P.O. BOX 706 FOREST HILLS, NY 11375 (718)263-6119	ACCOUNT EXECUTIVE PRUDENTIAL BACHE SECUR. INC. INTERNATL & SPECIAL ACCOTS. 100 GOLD ST NY, NY 10292 (212)791-3218	
TANG, NIEN-LING 唐念伶		CTR. FOR NAVAL ANALYSES 4401 FORD AVE. ALEXANDRIA, VA 22302-0268 (703)824-2490- 2215		TSAI, STEPHEN 蔡執中	17 MCNEIL DR. PAISIPPANY, NJ 07054 (201)334-5361	AT&T 54-3812 BASKING RIDGE NEW JERSEY (201)953-7838	BUS. STAT. MATH. STAT.
TANG, VICTOR K.T. 唐光燾		DEPT OF MATH. STAT. COLUMBIA UNIV. (212)280-5370	MATH. STAT.	TSAI, W. Y. 蔡偉彥	48 PATRICIA LANE SO. SETANKET NY 11720 (516)698-6103	ASSO. STAT. APPLIED MATH. DEPT. BROOK HAVEN NAT. LAB. UPTON LONG ISLAND, NY 11973 (516)282-4157	BIostat.
TIAN, C. J. 田承駿	542 W 112 STR APT 7N NEW YORK, NY 10025 (212)663-7548	PROFESSOR GRADUATE SCHOOL OF BUS. U. OF CHICAGO, 1101 E. 58TH ST CHICAGO, IL 60637 (312)702-7970	BUS. STAT. PROB. MATH. STAT.	TSAO, LING-LING 曹玲玲	8221 LOCHINVER LANE POTOMAC, MD 20854 (301)299-6870	SYNTEX RESEARCH A3-330 3401 HILLVIEW AVE. PALO ALTO, CA 94304 (415)855-6532	BIostat.
TIAO, GEORGE C. 刁錦震	1445 E. 56TH ST. CHICAGO, IL 60637 (312)955-1595	STUDENT O. S. U.		TSAY, JIA-YEONG 蔡嘉永		BIostatistician FEDERAL BLDG. RM #114 NAT. INST. OF HEALTH BETHESDA, MD 20205 (301)496-9725	BIostat.
TING, CHAO-PING 丁兆平	525 MONTGOMERY CT. COLUMBUS, OH 43210 (614)267-6935			TSAY, R. H. 蔡瑞胸		ASST. PROFESSOR DEPT OF STAT. CARNEGIE-MELLON UNIV. PITTSBURGH, PA 15213 (412)578-8874	
TING, HVEI-WEN 丁惠文	607 SENECA AVE. RIDGWOOD, NY 11385 (212)381-5762			TSAY, YAN-LING 蔡嫻琳	634 PAMMEL CT. AMES, IA 50010	STUDENT IOWA STATE UNIV.	
TING, NAITEE 丁迺迪	1104 REMINGTON #104 FORT COLLINS, CO 80524 (303)482-3363	STUDENT DEPT OF STATISTICS COLORADO STATE UNIV. FORT COLLINS, CO 80523 (303)491-7539	EDU. STAT.				

TSE, SIU-KEUNG 謝紹強 PH.D. 1984	313 FOREST PARK APT. L3 DURHAM, NH 03824 (603)868-5973	ASST. PROFESSOR DEPT OF MATH. KINGSBURG HALL UNIV. OF NEW HAMPSHIRE DURHAM, NH 03824 (603)862-3622		WANG, ALBERT 王作民 11511 DEL MONTE HOUSTON, TX 77077 (713)497-8821	EXXON PRODUCTION RES. CO. P.O. BOX 2189 HOUSTON, TX 77001 (713)965-4896
TSENG, CHIPEI 蔡清培 PH.D.	329 FAIRMONT DR. DEKALB, IL 60115	ASSOC. PROF. DEPT OF BUSI. SYST. & ANAL. N. ILLINOIS UNIV. DEKALB, IL 60115 (815)753-1286	BUS. STAT.	WANG, ANTONIA C.C. PH.D. 1985	POSTDOC DEPT OF STAT COLORADO STATE U. FORT COLLINS, CO 80523
TSENG, PENG-HSIU 曾文		STUDENT DEPT OF STAT., TEMPLE U. PHILADELPHIA, PA 19122		WANG, CHAIHO C. 王嘉瑚 PH.D. 1974	SR MATH STAT ECON POLICY OFFICE ANTITRUST DIV. U.S. DEPT OF JUSTICE WASHINGTON D.C. 20530 (202)724-6345
TSENG, S.T. 曾勝滄 PH.D. 1984		ASSOC. PROFESSOR MTIT, 43, SEC. 4, KEELUNG RD. TAIPEI, TAIWAN (02)341-3141		WANG, CHAO L. 王肇齡 PH.D. 1974	STATISTICIAN OCCUPATIONAL SAFETY & HEALTH STAT., 601 D ST. NW BUREAU OF LABOR STAT. WASHINGTON DC. 21213
TSONG, Y. 莊易 PH.D. 1979	2326 WEBSTER RANCH RD. FRIENDSWOOD, TX 77546 (713)996-0519	BIOSTAT. OFFICE OF ACADEMIC COMP. & BIOSTAT., UNIV. OF TEXAS GALVESTON, TX (409)761-6390	BIOSTAT.	WANG, CHIEN-CHUN 王子春 PH.D. 1985	POST DOC. COLORADO STATE UNIV. MATH. STAT.
TSOU, TAI-HOUN 鄒台虹 B.A. 1978	A307 BANNOCKHURN RIVERSIDE, CA 92507 (714)788-4656	STUDENT UCR STAT. DEPT. RIVERSIDE, CA 92521	ECONOM.	WANG, CHIH-MING 王志民 PH.D. 1979	SR. RES. SCI. DEPT. OF COMP. SCI. GM RES. LAB. WARREN, MI 48090 (313)575-3172
TSUI, KAM-WAH 徐鑑華 PH.D. 1978		ASSOC. PROFESSOR DEPT. OF STAT. UNIV. OF WISCONSIN MADISON, WI 53706		WANG, CHU S.L. 朱小玲	STUDENT DEPT OF STAT IOWA STATE U.
TSUI, KWOK-LEUENG 徐國良 M.S. 1981	14 BREESE TER. MADISON, WI	STUDENT UW-MADISON		WANG, GEORGE H.K. 王宏凱 PH.D. 1976	ASST. DIRECTOR STAT. & ANAL. DIV. 1700 G ST. NW OFFICE OF POLICY & ECON RES WASHINGTON DC. 20552 (202)377-7066
TU, JOW-CHING 涂肇慶 PH.D.	29 LACY LN. LOUDONVILLE, NY 12211 (518)438-5401	RESEARCH DEMOGRAPHER BUREAU OF BIOSTAT. N.Y.S. HEALTH DEPT. RM 308, TOWER BLDG., E.S.P. ALBANY, NY 12203 (518)474-1294	BIOSTAT. DEMO.	WANG, H.L. 王煥龍 1566 NEIL DR COLUMBUS, OH 43201 (614)421-2593	STUDENT DEPT OF STAT, 1566 NEIL OHIO STATE U.
TU, YIEN-I 涂硯誌 PH.D. 1961	2842 SHERYL AVE. FAYETTEVILLE AR 72701 (501)521-4195	ASSOC. PROFESSOR ECON. DEPT. UNIV. OF ARKANSAS FAYETTEVILLE, AR 72701	BUS. STAT. ECONOM.	WANG, HENRY Y. 王渝中 PH.D. 1980	ASST. PROFESSOR DEPT OF MATH. RUTGERS U. CAMDEN, NJ 08102 (609)757-6087
TUNG, SARAH 董楊志明 M.A. 1968	29 DARIEN RD. NEWARK, DE 19711 (302)368-8544	PROJ. LEADER OF STAT. COMP. ACADEMIC SERVICES SMITH HALL, U. OF DELAWARE NEWARK, DE 19716 (302)451-1989	BUS. STAT. EDU. STAT.	WANG, JANE-LING 王建玲 PH.D. 1982	ASST. PROFESSOR DIV. OF STAT. 469 KERR HALL, UC-DAVIS DAVIS, CA 95616
TWONG, KINH-NHNE 張敬遠		STUDENT 321 EVAN HALL UNIV. OF CALIF. BERKELEY, CA 94720	PROB. MATH. STAT.	WANG, JUNG-CHAO 王榮超 201 N. CHARTER ST. #1 MADISON, WI 53715 (608)256-3151	STUDENT UW-MADISON

WANG, KUO-JANG 王國徵		STUDENT DEPT OF STAT IOWA STATE U.		WEI, PEI-LAN 魏佩蘭	2504(1/2) LINCOLN WAY APT #1 AMES, IA 50013	STUDENT IOWA STATE UNIV.	
WANG, M.N. 王敏男 PH.D. 1974	20618 VICTOR ST. TORRANCE, CA 90503 (213)542-0376	ATLANTIC RICHFIELD CO. 515 S. FLOWER ST. #2109 LOS ANGELES, CA 90503 (213)486-3056	EDU. STAT.	WEI, WILLIAM W.S. 魏武雄 PH.D. 1974	1437 SOUTHWIND WAY DRESHER, PA 19025 (215)643-0753	ASSOC. PROFESSOR & CHAIRMAN DEPT OF STAT. TEMPLE PHILADELPHIA, PA 19122 (215)787-8459	BUS. STAT. MATH. TIME ANAL.
WANG, MEI-CHENG 王美苗 PH.D. 1984		JOHNS-HOPKINS UNIV.	PROB.	WONG, DEREK PH.D. 1977		SCIENTIST COMMUNICATIONS DEPT NAVAL OCEAN SYSTEMS CTR. SAN DIEGO, CA 92152	O.R.
WANG, MIN-CHIANG 王民強 PH.D. 1973	NW 1635 DEANE DR. PULLMAN, WA 99163 (509)332-6997	ASSOC. PROFESSOR DEPT OF MGMT. & SYSTEM WASHINGTON STATE UNIV. PULLMAN, WA 99164 (509)335-1870	BUS. STAT. MATH. STAT.	WONG, LINDA 黃希真 MA 1972		STAT. LAWRENCE BERKELEY LAB. COMP. SCI. RES. 50B/3238 ONE CYCLOTRON RD. BERKELEY, CA 94720 (415)486-6567	
WANG, PAUL C.C. 王傳誠 PH.D. 1979		ASST. PROFESSOR DEPT OF STAT. U. OF CALGONY 2500 UNIV. DR. NW CALGONY, ALBATA T2N 1N4 (403)284-6767		WONG, STELLA 黃潤珠 M.S. 1981		STUDENT 8/F. OLD FATHER HALL UNL LINCOLN, NEB 68588 (402)472-3731	MATH. STAT.
WANG, PECHENG 王丕承 PH.D. 1982		ASSOC. PROFESSOR DEPT OF APPLIED MATH. NAT. CHIAO TUNG UNIV. HSINCHU, TAIWAN, R.O.C.		WONG, W.H. 王永雄 PH.D. 1980	5525 S. BLACKSTONE #25 CHICAGO, IL 60637 (312)324-1401	ASST. PROFESSOR DEPT OF STAT. 5734 S. UNIV. AVE. CHICAGO, IL 60637 (312)962-8325	MATH. STAT. BIOSTAT.
WANG, SAMUEL H.S. 王冕三 PH.D. 1983		ASSOC. PROFESSOR CHUNG YUAN UNIV. DEPT OF INFO-COMM ENG. CHUNG LI, TAIWAN, R.O.C.	ENG. STAT.	WONG, WAI-NAM 黃蔚藍 B.S.		STUDENT DEPT OF STAT. UNIV. OF CHICAGO CHICAGO, IL 60637	MATH. STAT. METHODS & COMP.
WANG, WEN-YU 王文玉	(301)439-4842	STUDENT DEPT OF MATH U. OF MARYLAND		WONG, WING-KEUNG 黃永強	1204 W. DAYTON ST. #C MADISON, WI 53715 (608)255-9537	STUDENT UW-MADISON	
WANG, Y.H. 王堯弘 PH.D. 1971		PROFESSOR CONCORDIA UNIV. 1455 DE MAISONNEURE BLVD. W MONTREAL, PQ CANADA H3G 1M8	MATH. STAT.	WU, BERLIN 吳柏林	608 EIGENMANN INDIANA UNIV. BLOOMINGTON, IN 47406 (608)337-5810	STUDENT DEPT OF MATH. INDIANA UNIV. BLOOMINGTON, IN 47401	
WANG, YONGHUA 王永華 M.S. 1985	1323 W. DAYTON ST #13 MADISON, WI 53715	STUDENT DEPT OF STAT UW-MADISON		WU, CHIEN-FU 吳建福 PH.D. 1976	3913 BIRCH AV. MADISON, WI 53711 (608)231-1036	PROFESSOR 1210 W. DAYTON ST. DEPT OF STAT. MADISON, WI 53706 (608)262-7938	PROB. MATH. STAT. SURVEY SAMPLING
WEI, C.Z. 魏慶榮 PH.D. 1980	14230 CASTLE BLVD. SILVER SPRING, MD 20904 (301)890-7041	ASSOC. PROFESSOR DEPT OF MATH. COLLEGE PARK, MD 20742 (301)454-4944	PROB. MATH. STAT.	WU, CHIH-KUNG 吳志剛 M.S. 1984	607 SENECA AVE. RIDGWOOD, NY 11385 (212)381-5762		
WEI, FEI-FEI 魏非非		STUDENT DEPT OF STAT. 1566 NEIL OHIO STATE U.		WU, D.M. 吳得民 PH.D. 1963	DEPT OF ECON. UNIV. OF KANSAS LAWRENCE, KS 66044	PROFESSOR DEPT OF ECON. UNIV. OF KANSAS LAWRENCE, KS 66045 (913)864-3501	ECONOM.
WEI, L.J. 魏立人 PH.D. 1975	6 DON MILLS CT. ROCKVILLE, MD 20850 (307)424-9577 2391 Delaware Court Ann Arbor, MI 48103 (313) 663-7534	PROFESSOR DEPT OF STAT Biostat. GEORGE WASHINGTON UNIV. of Michigan WASHINGTON DC. 20052 (202)657-6359 (313) 936-1007	BIOSTAT. MATH. STAT.				

WU, HO SHU-CHEN 何淑植	2930 18TH ST. NW NEWBRIGHTON, MN 55112 (612)633-9487	ASST. PROFESSOR UNIV. OF MINNESOTA BOX 511 MAY MEMORIAL BLDG. 420 DELAWARE ST. SE MINNEAPOLIS, MN 55455 (612)373-0332	BIOSTAT.	YANG, GRACE 羅昭容	6106 NEILWOOD DR. ROCKVILLE, MD 20852 (301)881-5238	PROFESSOR DEPT OF MATH. U. OF MARYLAND COLLEGE PARK, MD 20742 (301)454-2602	
WU, JEREMY S. 胡善慶	5518 WILLIAMSBURG BLVD ARLINGTON, VA 22207 (703)241-7886	BRANCH CHIEF 14TH & INDEP AVE SW RM SOUTH-0611 WASHINGTON, D.C. 20250 (202)447-7318		YANG, HWA-MING 楊華明	3313 MIDDLESEX DR. APT. #C TOLEDO, OH 43606 (419)536-0658	MATH. DEPT. THE UNIV. OF TOLEDO 2801 W. BANCROFT ST. TOLEDO, OH 43606 (419)537-2976	RANDOM SELECTION
WU, JIANG-MING 吳江名	1301 SPRING ST., #503 MADISON, WI 53715 (608)256-6156	STUDENT UW-MADISON		YANG, JOANNA Y. 楊憶	4945 ELGIN CIRCLE SYRACUSE, NY 13215 (315)469-4418	SENIOR STATISTICIAN BRISTOL LABORATORIES P.O. BOX 4755 SYRACUSE, NY 13221-4755 (315)432-9601	BIOSTAT.
WU, KUO-TSUNG 吳國宗	201 N. CHARTER ST. #2 MADISON, WI 53715 (608)256-9050	STUDENT UW-MADISON		YANG, MARK C.K. 楊照崑	2267 NW 15TH AVE. GAINESVILLE, FL 32605 (904)376-5694	PROFESSOR DEPT OF STAT. U.F. GAINESVILLE, FL 32611 (904)392-1941	BIOSTAT. MATH. STAT.
WU, LANCELOT 吳作樂	421 W. 118 ST. #3C NEW YORK, NY 10027	STUDENT DEPT OF MATH. STAT. COLUMBIA UNIV. (212)280-3172	ENG. STAT.	YANG, SHIE-SHIEN 楊錫憲	332 N. 15TH AVE. MANHATTAN, KS 66506 (913)539-1514	ASST. PROFESSOR DEPT. OF STAT. K.S.U. MANHATTAN, KANSAS 66502 (913)532-6883	ENG. STAT. ORDER & NONPAR. STAT.
WU, PEN-JEN 吳佩珍	5355 F GREAT OAK DR. COLUMBUS, OH 43213 (614)864-7042	STUDENT OHIO STATE UNIV.		YAO, TZY-JYUN 姚姿君	1323 W. DAYTON ST. #20 MADISON, WI 53715 (608)258-8929	STUDENT UW-MADISON	
WU, PETER 吳一希	12406 DEEP SPRING HOUSTON, TX 77077 (713)531-9812			YAO, YI-CHING 姚怡慶		ASST. PROFESSOR DEPT OF STAT. COLORADO STATE UNIV. FORT COLLINS, CO 80523	PROB. MATH. STAT.
WU, S.M. 吳賢銘	6237 S HIGHLANDS AV. MADISON, WI 53705 (608)238-6682	PROFESSOR DEPT OF MECH ENG. UNIV. OF WISCONSIN MADISON, WI 53706 (608)252-3591	ENG. STAT.	YAU, LING 丘凌	1301 SPRING ST #509 MADISON, WI 53715	STUDENT DEPT OF STAT UW-MADISON	
WU, SING-CHOU 吳興周	1740 DE ANZA SAN LUIS OBISPO CA 93401	PROFESSOR STAT. DEPT. CALIF. POLY. S. U. SAN LUIS OBISPO, CA 93407 (805)546-2961	ECONOM. MATH. STAT.	YEH, C.M. 葉卿銘	4230 RIDGE LEA RD. AMHERST, NY 14226	DEPT OF STAT. SUNY AT BUFFALO BUFFALO, NY 14215 (716)831-3159	
WU, TIEE-JIAN 吳鐵肩	7823 ROYAN DR. HOUSTON, TX 77071 (713)728-2481	DEPT OF MATH. UNIV. OF HOUSTON HOUSTON, TX 77004 (713)749-2118	ECON PROB & MATH. STAT.	YEH, CHIAO 葉翹	120 WELDIN PARK DR. WILMINGTON, DE 19803 (302)762-1585	BIOSTAT. STUDART PHARMACEUTICAL ROUTES 202 & 141 WILMINGTON, DE 19897 (302)575-8914	BIOSTAT.
WU, YUEHUA 吳月華	353 MEYRAN AVE PITTSBURGH, PA 15213 (412)682-1572	STUDENT 315 THACKERAY MALL DEPT OF MATH & STAT U. OF PITTSBURGH PITTSBURGH, PA 15260	PROB & MATH. STAT.	YEH, TRICIA 林萃	32 TALLY RD. MERCERVILLE, NJ 08619	G.H. BESSELAAR ASSOCIATES 103 COLLEGE RD. EAST PRINCETON, NJ 08540 (609)452-8550-214	BIOSTAT.
YANG, CHU-CHIN 楊志欽	7704 ADELPHI RD. #24 HYATTSVILLE, MD 20783 (301)422-6159	STUDENT DEPT OF MATH U. OF MARYLAND COLLEGE PARK, MD 20742		YU, HONG-JEN 余泉仁	1216 PEACHTREE RD. FALLSTON, MD 21047 (301)877-3493	STATISTICIAN VA MEDICAL CENTER, CSPCC PERRY POINT, MD 21902 (301)642-2411 EXT 573	BIOSTAT.

YU, PAO-LO
郁保羅
PH.D. 1961

2005 PIN OAK COURT
INDIANAPOLIS, IN 46260
(317)872-0663

PROFESSOR
DEPT OF MEDICAL GENETICS
INDIANA UNIV.
SCHOOL OF MEDICINE, RR132
INDIANAPOLIS, IN 46223
(317)264-2241

BIOSTAT.
STAT.
GENETICS

YUAN, WILLIAM J.C.
袁人俊
PH.D. 1972

11 BARBARA ST.
PARSIPPANY, NJ 07054
(212)299-0867

DIRECTOR OF BIOSTAT.
WYETH LABS
P.O. BOX 8299
PHILADELPHIA, PA 19101

BIOSTAT.
MATH. STAT.

ZHANG, YANNING
張硯凝

UNIV. OF PITTSBURGH

ZHAO, LINCHENG
趙林城
PH.D. 1982

3333 WARD ST
PITTSBURGH, PA 15213
(412)681-9054

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CTR FOR MULTI ANALYSIS
U. OF PITTSBURGH
PITTSBURGH, PA 15260
(412)624-7911

PROB. &
MATH. STAT.

ZHU
朱偉勇

中國瀋陽東北工學院

ZHU

STUDENT
DEPT OF STAT
COLORADO STATE U.
FORT COLLINS, CO 80523

ZHU, SHIGUANG
朱士光

STUDENT
DEPT OF STAT
IOWA STATE U.
AMES, IA 50011

徵稿

為擴大通訊錄會刊為大家的園地，我們在此向同仁們徵求稿件。
稿件的內容為

- (1) 在您服務的公司機構內，統計的發展前途與實例應用。
- (2) 您所在的學校簡介，或您求學、研究心得，或則是博士論文摘要。
- (3) 統計學家的小故事。
- (4) Data、Examples，或 Open Problems。

截稿日期為10月31日，希望各位同仁擁躍來稿！

