

# Iowa Reception at 2005 Joint Statistical Meetings

October 2005



**UI College of  
Public Health**

UNIVERSITY OF IOWA

**Department of Biostatistics  
Newsletter**



The Iowa Reception at the 2005 Joint Statistical Meetings in Minneapolis this Summer sponsored jointly by the Department of Biostatistics and the Department of Statistics and Actuarial Science was a great success. It was attended by well over 100 people. It was great to see several old friends, mentors and classmates. You may view the photo gallery in its entirety at <http://www.public-health.uiowa.edu/biostat/alumni/photos/index.html>.

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## Letter from the Head

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This year has passed very quickly – its hard to believe that it is time for another newsletter so soon. It has been a productive year for the Department of Biostatistics. Our new faculty have settled in and begun to develop their research agendas, take ownership of the curriculum and generally become good citizens. Our old faculty have adjusted well to new and energetic younger colleagues, and are relieved not to be hiring additional faculty members again this year.



A few of the activities this year have been Bill Clarke heading the Data Coordinating Center for the Consortium for Islet Transplantation, Mike Jones providing biostatistical leadership to the CRISP (*Center for Research in the Implementation of Innovative Strategies in Practice*), Jane Pendergast preparing to be ENAR President in 2006 and guiding Jake Oleson through preparing the *Iowa Health Fact Book 2005*. Additional activities are described in this newsletter.

We were able to support a group of students to attend the *Midwest Biopharmaceutical Workshop* in Muncie, Indiana, this Spring and we rented a van for students to drive to the *Joint Statistical Meeting* in Minneapolis in August. We are proud of the students, graduates and incoming group of students. Presentations, awards, and accomplishments of our students are described later.

One of the highlights of the year was the Iowa reception for alumni, friends, former faculty and their relatives at the *Joint Statistical Meeting*. This was jointly sponsored by the Department of Biostatistics and the Department of Statistics & Actuarial Science. This was a great success and we had well over 100 people attending. It was a good time to renew old acquaintances and meet new people. There are a number of photos on the web at <http://www.public-health.uiowa.edu/biostat/alumni/photos/index.html>. It was such a success that we plan to repeat the event every 2 or 3 years. Please come next time, especially if you missed this time.

Best wishes for the upcoming year, and please keep in touch,

A handwritten signature in cursive script that reads "Kathryn Chaloner".

Kathryn Chaloner

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### 2004 Outstanding Alumni - Motomi Mori, PhD

Motomi Mori (PhD '89) is the 2005 recipient of the College of Public Health's Outstanding Alumni Award. We are very pleased that Tomi was able to come to Iowa City in May to receive her award. She also gave a very interesting talk to our students, faculty and staff.

Her research record includes over 65 papers in peer-reviewed journals. She has produced some of the earliest work on informatively censored data, which has since become a hot research topic in biostatistics. She is currently Associate Professor and Head, Division of Biostatistics of the Department of Public Health & Preventive Medicine at the Oregon Health & Science University (OHSU). She is also Director of the Biostatistics and Bioinformatics Shared Resource, Cancer Institute, at OHSU.

Dr. Mori has established herself in the areas of cancer research and donor recruitment through published articles, invited presentations, software development and by leading research efforts as principal investigator NIH grants. She is a biostatistical leader in cancer research and has demonstrated dedication and long-term commitment to the health sciences. *Congratulations Tomi!*

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## Student News

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### Spring and Summer 2004 Graduates

#### MS Program

Jaysi S. Butler	Biostatistician in University of Iowa Department of Epidemiology
Yiyi Chen	Continue in PhD program
Taikyoung Kim	University of Iowa Statistics and Actuarial Science PhD program
William A. Morris	Biostatistician in University of Iowa Department of Epidemiology
Eric W. Schaefer	Continue in PhD program
Min Shi	Research Fellow at the National Institute of Environmental Health Sciences
Adam Summers	Biostatistician at Johns Hopkins University
Shea M. Watrin	Biostatistician at Amgen, Inc., Longmont, Colorado
Jie Zhang	Biostatistician in University of Iowa Department of Epidemiology

#### PhD Program

Xinqun Yang, PhD Thesis: "The posterior probability of linkage allowing for linkage disequilibrium and a new estimate of disequilibrium between a trait and a marker", under the direction of Professors Veronica J. Vieland and Jian Huang. Xinqun is now working at Amgen, Inc., in Thousand Oaks, California. Xinqun was the recipient of a 3-year Fellowship sponsored by Merck & Co., Inc. You may read the abstract of Xinqun's thesis at [http://www.public-health.uiowa.edu/biostat/alumni/pdf/Xinqun\\_Yang-Abstract.pdf](http://www.public-health.uiowa.edu/biostat/alumni/pdf/Xinqun_Yang-Abstract.pdf).



Xian-Jin Xie, PhD Thesis: "A Goodness-of-Fit Test for Logistic Regression Models with Continuous Predictors", under the direction of Professors Jane Pendergast and Bill Clarke. Jin is now an Assistant Professor at the Center for Biostatistics and Clinical Science at The University of Texas Southwestern Medical Center at Dallas. You may read the abstract of his thesis at [http://www.public-health.uiowa.edu/biostat/alumni/pdf/Jin\\_Xie-abstract.pdf](http://www.public-health.uiowa.edu/biostat/alumni/pdf/Jin_Xie-abstract.pdf).

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#### Student Awards:

Xinqun Yang is the recipient of the 2005 Milford E. Barnes Award for Biostatistics.

Yiyi Chen was elected to the Delta Omega Honor Society in Public Health.

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#### Biostatistics Student Organization Officers for 2005-06

President:	Qian Shi
Vice President:	JonDavid Sparks
Academic Coordinator:	Yang Lei
Recreation Coordinator:	Junting Zhen
Secretary/Treasurer:	Zhiwei Wang
Webmaster:	Li Zhou

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## Student Posters Presentations

**Ozgun Bayman E**, Taneli Y, Ediz B, Guvendeger N, Kan I, Taneli S. *The reliability and validity analysis on Yale Brown obsessive compulsive disorder scale for adults and children in Bursa*. 16<sup>th</sup> World Congress of the International Association for Child and Adolescent Psychiatry and Allied Professions (IACAPAP), Berlin, Germany, August 2004.

**Acion L**, Arndt S, Vescovo M, Abbate E, Perandones CE, Zabner J, Jorge R. *Anhedonia in multidrug-resistant tuberculosis HIV-negative patients*. University of Iowa Research Week, Iowa City, IA, 2005. **Winner of Student Poster Award**. Also presented at the UI Graduate Student Forum, receiving Honorable Mention in 2004.

**Zhang W**, Chaloner K, Stapleton J. *Effect of GBV-C Infection on Survival of HIV Infected Individuals: A Bayesian Meta-Analysis*. University of Iowa Research Week, Iowa City, IA, 2005. **Winner of Student Poster Award**.

**Zhang W**, Sargent DJ, Mandrekar S. *An Adaptive Dose-finding Design Incorporating both Toxicity and Efficacy*. Midwest Biopharmaceutical Statistical Workshop, Muncie, IN, 2005. Recipient of the "The 28<sup>th</sup> MBSW Charles B. Sampson Student Poster Award 1<sup>st</sup> Place".

**Yoo B** and Jones MP. *Estimation in the Mixed Effects Cox Regression Model*. Midwest Biopharmaceutical Statistical Workshop, Muncie, IN, 2005.

**Modak S** and Konety BR. *Where are patients with major urologic cancers undergoing their surgery? Changing trends in delivery of surgical and non-surgical care*. Primary presenter at 98<sup>th</sup> Annual Meeting of American Urological Association, San Antonio, Texas, May, 2005.

Konety BR, Allareddy V, **Modak S**. *Outcome from radical cystectomy in specialized urology hospitals: Are they any better?*—98<sup>th</sup> Annual Meeting of American Urological Association, San Antonio, Texas, May, 2005.

## Oral Presentations at National Meetings

*Factors Influencing Survival Time Following Surgical Treatment of Obesity*. **Zhang W**, Mason EE, Renquist K, Zimmerman B. The James F. Jakobsen Graduate Forum, University of Iowa, 2004.

*An adaptive dose-finding design incorporating both toxicity and efficacy*. **Zhang W**, Sargent DJ, Mandrekar S. ENAR, Austin, TX, 2005

*Imputation Methods for Doubly Censored Survival Data with an Interval-censored Covariate*. **Zhang W**, Zhang Y, Chaloner K. Joint Statistical Meetings, Minneapolis, MN, 2005

*Defining and Assessing Endpoints in Driving Simulator Tasks*. **Shi Q**, **Stierman L**, Dawson JD, Rizzo M. Joint Statistical Meetings, Minneapolis, MN, 2005.

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## Alumni News

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Ye Tan (MS '02) recently sent us a cute photo of her future Gopher, son Daniel, who is just over a year old now. Ye is a biostatistician in the Department of Pediatrics at the University of Minnesota.

Please send your news items, professional or personal, for inclusion in the next Newsletter to terry-kirk@uiowa.edu or kathryn-chaloner@uiowa.edu. We would like to hear from you.

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## Joint Statistical Meeting 2005

Since the JSM was in Minneapolis this year and relatively close to Iowa City, we were able to send a number of our graduate students to the meeting. This year the Department provided registration funds for 12 students and transportation for 8 students to Minneapolis. The photograph to the right includes (from left to right) Yajun Zhu, Yu-Hui Huang, Qian "Cicci" Shi, Yingwei Qi, and Mei Huang.



Thank you to our Alumni whose contributions help make it possible for so many of our students to attend the meeting this year.

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## New MS Students

Laura Becker	Simpson College
Benjamin Doyle	College of Charleston
Yang Lei	transferred from the CPH Health Management and Policy
Xin Lu	co-registered PhD student in Computer Science
Zhiwei Wang	Purdue University
Lixun Zhang	co-registered PhD student in Geography
Shanshan Zhao	Beijing University
Junting Zheng	University of Pennsylvania
Li Zhou	transferred from Library & Information Science

## New MPH Students

Ashish Patel	transferred from Statistics and Actuarial Science
Soumya Mazumdar	co-registered in Geography PhD Program

## New PhD Students

Yiyi Chen	University of Iowa MS in Biostatistics
Eric Schaefer	University of Iowa MS in Biostatistics

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## Faculty Editorships

Joseph E. Cavanaugh is currently an Associate Editor for the Reviews Section for *JASA*, *The American Statistician*, and the *Journal of Forecasting*.

Ying Zhang is an Associate Editor for the *Journal of Computational Statistics and Simulation*.

Stephan Arndt, Professor of Psychiatry and a secondary faculty member of the Department, is Editor-in-Chief of *Substance Abuse Treatment, Prevention, and Policy*. This is an open Access, peer-reviewed, online journal. [www.substanceabusepolicy.com](http://www.substanceabusepolicy.com)

### News Regarding 2006 ENAR Meeting

Jane Pendergast will assume the role of President of the Eastern North American Region (ENAR) of the International Biometrics Society on January 1<sup>st</sup>, and will preside over the 2006 ENAR Spring Meeting in Tampa, March 26-29. Attracting 1000 attendees from various areas of biometry/biostatistics, these meetings provide a great opportunity to reconnect with former students and colleagues around the country. The high-quality invited and contributed sessions of the meeting are complemented by a continuing education program in the form of short courses, tutorials and introductory lectures on special topics. Jane's position in ENAR brings recognition to our Department and College. This meeting was to be held in New Orleans, but had to be moved to a new date and location due to Hurricane Katrina. It was her responsibility to oversee coordination of the move and make adjustments to the program as needed. We are happy to report that the scientific value of the meeting was not compromised. Please check the ENAR web site for details on the program: <http://www.enar.org/meetings.htm>.



The tragedy of Hurricanes Katrina and Rita have brought home the importance of public health and emergency preparedness in all communities. We join the many others who have expressed their sorrow at the losses endured by so many and are hopeful that the Gulf communities affected will soon return to peace and prosperity.

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### 2005 Iowa Health Fact Book

In conjunction with the Iowa Department of Public Health, the University of Iowa College of Public Health released the 2005 Iowa Health Fact Book under the direction of Jane Pendergast and Jacob Oleson. This is the fifth in a series of Iowa Health Fact Book biennial publications. The Fact Book presents state-wide and county-specific data relating to various health outcomes, social and health behaviors and health care resources. Individual copies of this book are available in hard copy and electronically on CD-ROMs, and can also be viewed on our college website. . Please take a look at this excellent resource at <http://www.public-health.uiowa.edu/FACTBOOK>.



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### William R. Clarke — University of Iowa's Top Grant Recipient for 2005

Bill Clarke, Director of the Clinical Trials Statistical Data Management Center (CTSDMC), received \$10.7 million in federal grants and contracts during fiscal year 2005. These financial awards distinguished Bill as the top grant-getter at The University of Iowa this past year. His major award, as highlighted in the previous Newsletter, involves the CTSDMC operating the data coordinating center for an international research consortium studying islet transplantation in patients with type 1 diabetes. Congratulations Bill and the staff of the CTSDMC!

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### Biostatistics Faculty Publications During 2004

- Little RJA and **An H**. Robust likelihood-based analysis of multivariate data with missing values. *Statistica Sinica* 14:949-968, 2004.
- Gilman S, Koeppe RA, Little RJA, **An H**, Junck L, Giordani B, Persad C, Heumann M, and Wernette K. Decreased striatal monoaminergic presynaptic terminals detected with PET in DLB but not AD. *Annals of Neurology* 55(6):774-780, 2004.
- Nonnenman MW, Donham KJ, Rautiainen RH, O'Shaughnessy PT, **Burmeister LF**, and Reynolds SJ. Vegetable oil sprinkling as a dust reduction method in swine confinement. *Journal of Agricultural Safety and Health*, 10(1):7-15, 2004.
- Chiu BC-H, Weisenburger DD, Zahm SH, Cantor KP, Gapstur SM, Holmes F, **Burmeister LF**, and Blair Z. Agricultural pesticide use, familial cancer, and risk of non-Hodgkin lymphoma. *Cancer Epidemiology, Biomarkers, and Prevention*, 13(4):525-531, 2004.
- Chrischilles E, Ahrens R, Kuehl A, Kelly K, Thorne P, **Burmeister L**, and Merchant J. Asthma prevalence and morbidity among rural Iowa schoolchildren. *Journal of Allergy & Clinical Immunology*. 113(1):66-71, 2004.
- Mock DM, Lankford GL, Widness JA, **Burmeister LF**, Kahn D, Strauss RG. RBCs labeled at two biotin densities permit simultaneous and repeated measurements of circulating RBC volume. *Transfusion*. 44(3), 431-7, Mar 2004.

- Cavanaugh JE.** Criteria for linear model selection based on Kullback's symmetric divergence. Australian and New Zealand Journal of Statistics 46:257-274, 2004.
- Ferguson AC, Davis CH and **Cavanaugh JE.** An autoregressive model for analysis of ice sheet elevation change time series. IEEE Transactions on Geoscience and Remote Sensing 42:2426-2436, 2004.
- Neath AA, **Cavanaugh JE** and Davies SL. An optimality result for a cross validation estimate of prediction error. In *2004 Proceedings of the American Statistical Association, Section on Biometrics* (CD-ROM). Alexandria, VA.
- Adams HP, Leclerc JR, Bluhmki E, **Clarke W**, Hansen MD, Hacke W. Measuring outcomes as a function of baseline severity of ischemic stroke. Cerebrovascular Diseases 18(2):124-129, 2004.
- Leira EC, Chang KC, Davis PH, **Clarke WR**, Woolson RF, Hansen MD, Adams HP. Can we predict early recurrence in acute stroke? Cerebrovascular Diseases 18(2):139-144, 2004.
- Ringman JM, Saver JL, Woolson RF, **Clarke WR**, Adams HP. Frequency, risk factors, anatomy, and course of unilateral neglect in an acute stroke cohort. Neurology 63(3):468-474, 2004. Aug
- Herr K, Tittler MG, Schilling AL, Marsh JL, Xie XJ, Arderly G, **Clarke WR**, Everett LQ. Evidence-based assessment of acute pain in older adults. Clinical Journal of Pain 20(5):331-340, 2004.
- Han C and **Chaloner K.** A note on optimal design for two or more treatment groups. Statistics and Probability Letters 69:81-89, 2004.
- Han C, **Chaloner K.** Bayesian experimental design for nonlinear mixed-effects models with application to HIV dynamics. Biometrics 60:25-33, 2004. Mar
- Fan S and **Chaloner K.** Optimal designs and limiting optimal designs for a trinomial response. Journal of Statistical Planning and Inference 126:347-360, 2004.
- Stapleton JT and **Chaloner K.** Correspondence. GB virus C and survival in HIV-positive people (Letter to Editor). AIDS 18 (17):2343-4, 2004. [Response to: "GB virus C during the natural course of HIV-1 infection: viremia at diagnosis does not predict mortality", by Bjorkman et al. AIDS 18:1-12, 2004.]
- McGehee DV, Lee JD, Rizzo M, **Dawson J**, Bateman K. Quantitative analysis of steering adaptation on a high performance fixed-base driving simulator. Transportation Research, Part F: Traffic Psychology and Behavior Vol 7, Issue 3, May 2004.
- Rizzo M, Stierman L, Skaar N, **Dawson JD**, Anderson SW, Vecera SP. Effects of a controlled auditory-verbal distraction task on older driver vehicle control. Transportation Research Record: Journal of the Transportation Research Board. 1865:1-6, 2004.
- Uc EY, Rizzo M, Anderson SW, Shi Q, and **Dawson JD.** Driver route-following and safety errors in early Alzheimer disease. Neurology, 63(5):832-837, 2004.
- Dawson, JD.** Quantitative analytical methods in translation research. Worldviews in Evidence-Based Nursing, 1(S1):S60-S64, 2004. (Role: Study Design, Data Analysis, Writing and Editing of Paper, Responding to Comments by Reviewer and Editor)
- Brinig MF, Jogerst GJ, Daly JM, Schmuck GA, and **Dawson JD.** Public choice and domestic elder abuse law. Journal of Legal Studies 33:517-549, 2004.
- Uc EY, Rizzo M, Anderson S, Shi Q, and **Dawson J.** Driver route-following and safety errors in stroke. Transportation Research Record: Journal of the Transportation Research Board 1899: 90-95, 2004.
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- Oleson JJ** and He CZ. Hierarchical Bayesian modeling in dichotomous processes in the presence of nonresponse. Biometrics 60:50-59, 2004.
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- Pendergast J** and Stoner S. Bridge to Employment: Summary of DVRS and DHS Administrative Data for Iowa Project Participants and Comparison Group Members. Apr. 7, 2004.
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- Hawkins D and **Zamba K**. On small shifts in quality control. *Quality Engineering* 16:143-149, 2003-04.
- Wellner JA, **Zhang Y**, Liu H. A semiparametric regression model for panel count data: when do pseudo-likelihood estimators become badly inefficient? *Proceedings of the Second Seattle Biostatistical Symposium: Analysis of Correlated Data*, 2004.
- Zhang Y** and Jamshidian M. On algorithms for NPML of the failure function with censored data. *The Journal of Computational and Graphical Statistics* 13, 123-140, 2004.
- Liu W, Jamshidian M, **Zhang Y**. Multiple comparison of several linear regression models. *Journal of the American Statistical Association* 99, 395-403, 2004.
- Ahmad I, Liu W, **Zhang Y**. On the finite sample behavior of testing whether new is better than used of a specific age. *Metrika*, 60, 287-294, 2004.
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- Knecht S, Estin M, Callaghan JJ, **Zimmerman MB**, Alliman KJ, Alvine FG, Saltzman CL. The agility total ankle arthroplasty - Seven to sixteen-year follow-up. *Journal of Bone & Joint Surgery - American* Vol. 86A(6):1161-1171, 2004.
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## Student Publications

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- Rizzo M, **Shi Q**, Pietras T, Kellison I, Dawson JD. "Stops for Cops: Impaired Response Implementation in Older Drivers with Cognitive Decline". *National Academy of Sciences: Transportation Research Record*, 2004.
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- Kim H, Lee J-T, Hong Y-C, Yi S-M, **Kim Y**. Evaluating the effect of daily PM<sub>10</sub> variation on mortality. *Inhalation Toxicology*, 16 (suppl. 1):55-58; 2004.
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