The Sociological Methodologist

Newsletter of the Methodology Section of the American Sociological Association
Winter/Spring 2011

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From the Chair

by Tim Futing Liao
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We had a successful section day on the third day of last summer's American Sociological Association annual meeting. Diane Felmlee organized two well-attended section sessions, and our council/business meeting was productive. We passed a new set of procedures for section awards. The 2010 Paul Lazarsfeld Award was won by Professor Leo Goodman from the University of California at Berkeley, and the Leo Goodman Award went to Professor Carter Butts from the University of California at Irvine. (We did not give the student paper award in 2010 because of the low number of papers received.) The awards were given out at the on-site evening reception over wine and hearty buffet food. Announcements of these awards follow in this newsletter.

We do not yet have the details for this year's section sessions. However, we will have three sessions organized by Professor Guillermina Jasso, our incoming section Chair. We will give a detailed report in the summer/fall newsletter.

One thing on the agenda of the council/business meeting next summer is the format of our Duncan Lecture. Thus far we have always invited a noted scholar from outside of sociology whose contributions to social science methodology have left a lasting impact on sociological methodology and research. At the council meeting, I plan to propose to change the format to having a sociologist one year and a non-sociologist the next, on a rotating basis. At this year's ASA meetings, Professor Robert Hauser will be our Duncan Lecturer. But I would like to hear from you about how to best organize our Duncan Lecture, and we will discuss my proposal with your input at the next council meeting.

Finally, I am pleased to report that after a few months' working with the ASA, we now finally have a section website that is hosted by the ASA: http://www2.asanet.org/sectionmethod/index.html. This permanent section website contains the new award procedures, a list of past award winners, past newsletters, and other useful section information. I would like to thank Jeff Timberlake and his assistant Jen Carter of the University of Cincinnati in the early stage of this work and ASA webmaster Michelle Dupray's consistent work in launching the website and in putting up with my nagging and incessant emails to fine-tune the appearance and the contents of the website. This is your website—please visit it!

2010 Methodology Section Awards

by Tim Futing Liao
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The Leo Goodman Award

The Award Committee of the Methodology Section is pleased to present this year's Leo Goodman award to **Carter Butts**, Associate Professor of Sociology at the University of California at Irvine.

The Goodman award is designated to acknowledge the contributions to sociological methodology or innovative uses of sociological methodology made by a scholar who is no more than 15 years past the date of the PhD. Professor Butts completed his dissertation in sociology titled "Spatial Models of Large-Scale Interpersonal Networks" under Kathleen Carley at Carnegie Mellon University in 2002. The dissertation received the Herbert Simon Dissertation Award given by the university. Since then, he has embarked on a very successful research career making contributions to multiple focal areas of sociology including social network analysis, mathematical sociology, and methodology.

In his work on social network analysis or on mathematical sociology, it is Carter's methodological innovations that most often form a core part of contribution in his insightful sociological research. For example, his co-authored 2004 *Journal of Mathematical Sociology* paper proposed a structural approach to the representation of life history data. His contributions to network methodology have been just breathtaking since the short span of time since his Ph.D.: His single-authored and co-authored R packages include:

- *sna*: tools for social network analysis;
- *nettheory*: routines for social network theory;
- *netperm*: permutation models for relational data;
- *network*: classes of relational data;
- *statnet*: modelling of network and graph data.

Also consider the density of his methodological papers. Carter must have broken a record when he published two papers in *Sociological Methodology* in 2007, one on permutation models for relational data and the other on models for generalized location systems, followed by another article the following year in the same journal, proposing a relational event framework for social action.

The Paul Lazarsfeld Award

The Award Committee of the Methodology Section is pleased to present this year's Paul Lazarsfeld award to **Leo Goodman**, the Class of 1938 Professor of Sociology and Statistics at the University of California at Berkeley.

The Paul F. Lazarsfeld Award recognizes a scholar who has made a career of outstanding contributions to sociological methodology. It is fairly safe to say that no scholars have influenced statistics from sociological considerations more than Leo Goodman has. Leo received his PhD in 1950 under the tutelage of the late Sam Wilks and John Tukey at Princeton. From 1950 to 1987 he taught in statistics and sociology and rose in ranks to the Charles L. Hutchingson Distinguished Service Professor at the University of Chicago. In 1987, he moved to the University of California at Berkeley to take up his current position. Leo is one of the few who truly bridge between sociology and statistics.

Over a productive career of over half a century, Professor Goodman has made many significant contributions to log-linear modelling and the analysis of categorical data, the most common form of sociological data. Goodman's research has been extremely influential. Until 2009, one of his articles had been cited more than 1,100 times, a second one of his articles had been cited around 600 times, a third one of his articles had been cited around 450 times, 11 of his articles had been cited between 200 and 400 times, 12 of his articles had been cited between 100 and 200 times, and 15 of his articles had been cited between 50 and 100 times; if we are lucky, most of our methods paper will have been cited between 10 and 50 times. His research has also had a high degree of centrality, as shown by Olle Perrson's map of authors who are co-cited with Leo Goodman in at least 100 articles (reproduced in Mark Becker's "A Conversation with Leo Goodman," *Statistical Science*, 2009, 24: 361-385).

Much of Goodman's research has been groundbreaking. For example, some of the models for ordered data bear his name, such as Goodman's RC association model, with the subtypes of RC-I and RC-II models. The RC-II model is widely applied since it does not assume an *a priori* order of the response categories and instead estimates latent scores that represent the response categories. He has also been the first to lay bare the relation between association models and correspondence analysis, bridging not just statistics and sociology but also the French and American modelling traditions!

Goodman's contributions to sociological methodology are just too numerous to enumerate in this short recognition. The American Sociological Association has recognized his fine scholarship in the past with the Samuel A. Stouffer Award and the Career of Distinguished Scholarship Award, and he was our inaugural OD Duncan Lecturer. However, the Stouffer Award was given in 1974 to Goodman, who gracefully shared it with OD Duncan, and the award was conferred in recognition of a work or series of works published in the past five years which had notably advanced the methodology of sociological research. As we well know, Leo has made many highly influential methodological contributions that have significantly advanced sociological research over the decades, and he continues to teach and publish important articles in the new millennium. For such illustrious career spanning six decades that has changed many of our professional lives in sociology, Leo Goodman richly deserves the 2010 Paul F. Lazarsfeld Award.

2011 ASA Spring Methodology Conference, May 18-20, 2011

Sponsored by the American Sociological Association Methodology Section and supported by the Tilburg School of Social and Behavioral Sciences.

Organized in Europe by the Department of Methodology and Statistics at Tilburg University, Tilburg, the Netherlands.

Keynote Speakers:
- Tom Snijders, University of Oxford and University of Groningen
- Klaas Sijtsma, Tilburg University

Pre-conference Workshops:
- Herbert Hoijtink
- Johan Koskinen
- Jeroen K. Vermunt
- Andries van der Ark

Local Organizers:
- Jeroen K. Vermunt
- Andries van der Ark
- John Gelissen
- Ruud Luijkx

Deadline for registration and abstract submission: April 1, 2011

Website: http://www.tilburguniversity.edu/asa

2011 ICPSR Summer Program: Quantitative Methods of Social Research

The Inter University Consortium for Political and Social Research (ICPSR) is pleased to announce the 2011 Summer Program in Quantitative Methods of Social Research.

As many Methodology Section members know, the main component of the ICPSR Summer Program is held on the campus of the University of Michigan, in Ann Arbor. Lectures and workshops on a wide variety of topics in research design, quantitative reasoning, statistical methods, and data processing are presented in two four week sessions. The first session runs from June 20, 2011 until July 15, 2011. The second session runs from July 18, 2011 until August 12, 2011. The contents of the two sessions are largely independent of each other, although some second session workshops do assume that participants are familiar with material from first session courses.

The 2011 ICPSR Summer Program will also offer a number of three to five day workshops on both statistical and substantive topics throughout the summer. Most of these shorter workshops take place in Ann Arbor, but there are several that will be held in other locations: Amherst, MA; Bloomington, IN; Chapel Hill, NC; and (for the first time) Berkeley, CA.

We would like to draw your attention to several noteworthy features in the 2011 ICPSR Summer Program.

- Three new four-week workshops: "Network Analysis" during the first session; "Applied Multilevel Models", and "Causal Inference for the Social Sciences" during the second session.
- A number of new three- to five-day statistical workshops, including: "Estimating Geometric Models of Choice and Judgment", "Missing Data: An Introduction to the Analysis of Incomplete Data Sets (in Bloomington, IN), "Doing Bayesian Data Analysis: An Introduction", "Monte Carlo Simulation and Resampling Methods" (in Chapel Hill, NC), "Item Response Theory", and "Spatial Econometrics: Statistical Models of Interdependence among Observations".
- Expanded offerings in the field of network analysis. In addition to the new four-week workshop mentioned earlier, we will have the following short workshops: "Network Analysis: An Introduction", "Advanced Network Analysis" (offered for the first time), "Social Network Analysis: An Introduction", and "Network Analysis: A Second Course".
- A new three-day workshop on "Mixed Methods: Approaches for Combining Qualitative and Quantitative Research Strategies" (in Chapel Hill, NC).
- Two five-day workshops on the analysis of panel data: A new course on "Panel Data Analysis Using SAS and SPSS" and another on "Panel Data Analysis Using Stata."
- Continued emphasis on multilevel modeling. In addition to the new four-week workshop mentioned above, we offer the following short workshops: "Hierarchical Linear Models I: Introduction", "Applied Multilevel Models Using SAS and SPSS", "Analyzing Multilevel and Mixed Models Using Stata", and "Hierarchical Linear Models II: Special Topics".

In developing the course list for the 2011 ICPSR Summer Program, we are responding to the expressed interests of the social scientific research community, and providing coverage of statistical procedures that are receiving increasing attention

within methodological circles. We hope you find something that will be useful for your own work in the 2011 Program. And, we are always interested in feedback: Please let us know if you have any thoughts about our current course offerings or new topics that you would like to see us include in the curriculum.

The current course list for the 2011 ICPSR Summer Program is provided below. This list gives the complete set of statistical courses that the Program will offer in 2011. Note that the roster of short substantive workshops is still being put together; additional information will be provided on the Summer Program web site as it becomes available.

Registration is now open for all of our statistical courses and for several of the substantive workshops. The application form, registration instructions, fee structure, and further information about the ICPSR Summer Program are all available on our web site: http://icpsr.umich.edu/sumprog/

Please feel free to e mail us with any further questions at: sumprog@icpsr.umich.edu.

2011 ICPSR Summer Program: Network Analysis Workshops

Network analysis is a topic that is receiving an enormous amount of attention in the social and behavioral sciences. This strategy, and the associated methodological tools, for analyzing relationships between entities have proven to be useful in a wide variety of research contexts, from many substantive areas. Because of the broad interest in network analysis that exists within the scholarly community, we wanted to let you know about the courses on this topic that we will be offering in the 2011 ICPSR Summer Program.

This year, we will be offering a total of five different courses, varying from introductory to advanced levels. The courses will be held in four different locations, and they range in length from three days to four weeks.

Three of the workshops provide basic introductions to the methodological techniques associated with

network analysis. These classes assume that participants have a first course background in statistics, and no prior experience with network analysis. The first two are a week long, while the last is a full four week ICPSR course:

- *Network Analysis: An Introduction.* The instructor for this course is Stanley Wasserman, from Indiana University. This workshop has been offered for more than 25 years by ICPSR, and focuses on data, statistics, and models. The course is an intensive five-day workshop that will be taught in Ann Arbor, Michigan, June 13-17, 2011.
- *Social Network Analysis: An Introduction.* The instructor for this course is Katherine Faust, from the University of California, Irvine. The course is an intensive five-day workshop, taught in **Chapel Hill, North Carolina**, July 18-22, 2011.
- *Network Analysis.* The instructor for this course is Ann McCranie, from Indiana University. Participants will learn about data collection and preparation and methods for analysis of individual actors, subgroup, and network properties; statistical models will be introduced in the last week of the course. The course will be taught during the first four-week session of the ICPSR Summer Program, June 20- July 15, 2011, in **Ann Arbor, Michigan**.

The last two workshops cover more advanced topics in the standard methods of network analysis. They assume that participants have had exposure to, and some experience with, the methodology of network analysis:

- *Network Analysis: A Second Course.* The instructors for this course are Stanley Wasserman, from Indiana University and Hank Green from the RAND Graduate School. This course will focus on statistical models, drawing on the methodological research on p* and actor-oriented longitudinal models. Software used will include *pnet*, *statnet*, *siena*, and *pajek*. The course is an intensive three-day workshop

and it will be taught in **Ann Arbor, Michigan**, August 17-19, 2011.

- *Advanced Network Analysis*. The instructor for this course is Jukka-Pekka Onnela, from Harvard University. The course provides training on how to effectively handle and analyze large scale networks on datasets involving millions of people or data points. It is a third-level course, and assumes that participants already have experience in the methodology of network analysis at about the level of the second course described above. The course is an intensive five-day workshop and it will be taught in **Ann Arbor, Michigan**, June 20-24, 2011.

More information, including detailed course descriptions, fee schedule, and application forms are available on the ICPSR Summer Program website: http://www.icpsr.umich.edu/sumprog/.

If you have any further questions about our Network Analysis workshops, or about any other aspect of the 2011 ICPSR Summer Program, please do not hesitate to contact us by e-mail (sumprog@icpsr.umich.edu) or telephone (734-763-7400).

2011 ICPSR Summer Program: Clifford C. Clogg Award

This is a unique joint activity from the Methodology Section of the American Sociological Association and the Inter-University Consortium for Political and Social Research (ICPSR). These two organizations worked together to establish a scholarship award in honor of the late Clifford C. Clogg. Cliff was, of course, a major figure in quantitative social science research methodology. He also was a strong supporter of, and contributor to, the ICPSR Summer Program.

The **Clifford C. Clogg Scholarship** is a waiver of Program Scholar (non-credit) fees to attend one or both of the four-week sessions in the 2011 ICPSR Summer Program. Up to three Clogg Scholarships will be awarded in sociology.

The Clogg Scholarship is intended for current and actively-enrolled graduate students in Sociology Ph.D. programs at North American universities. One of the applicants declared areas of concentration must be methodology, statistical analysis, or mathematical modeling.

Application materials for the Clogg Scholarship should be submitted electronically, through the ICPSR Summer Program's online Portal on the Summer Program's website (http://www.icpsr.umich.edu/sumprog/).

Applicants should register for the 2011 Summer Program using the online form and select classes in one or both of the four-week sessions. Note that course selections may be modified and changed later. But, the Clogg Scholarship Committee may use an applicant's preferred courses as a criterion in the selection process for the scholarship. Along with a completed registration, an application must include:

1. A current vita

2. A cover letter from the student, explaining how participation in the ICPSR Summer Program will contribute toward completion of the Ph.D.

3. Two letters of recommendation from faculty (at least one of whom should be a member of the Methodology Section of ASA).

The application deadline for the Clifford C. Clogg Scholarship is April 29, 2011.

Further information about the ICPSR Summer Program, including course descriptions and the 2011 schedule, is available on the Program website, http://www.icpsr.umich.edu/sumprog.

Also, you should feel free to contact the ICPSR Summer Program by e-mail (sumprog@icpsr.umich.edu) or by telephone (734-763-7400) if you have any questions.

Formal Demography Sessions at 2011 PAA Meetings

The 2011 Annual Meeting will be held March 31-April 2 at the Marriott Wardman Hotel, Washington, DC.

Of course, many sessions will be of interest to members of the Methodology Section but two in particular concern formal demographic methods.

For the full program and more information, see http://www.populationassociation.org/sidebar/annual-meeting/.

Friday, April 1, 12:30 PM - 2:20 PM

FORMAL DEMOGRAPHY I: MATHEMATICAL MODELS AND METHODS

Chair: **Samuel J. Clark**, University of the Witwatersrand, INDEPTH Network and University of Washington

Discussant: **Adrian Raftery**, University of Washington

The IMEM model for estimating international migration flows between countries in the EU / EFTA • **James Raymer**, **Jonathan J. Forster**, **Peter W.F. Smith**, **Jakub Bijak**, **Arkadiusz Wisniowski**, and **Guy J. Abel**, University of Southampton

Recent Rises in Cohort Fertility in the Industrialized World: Using Bayesian Methods to Extrapolate Trends while Preserving Cohort Features • **Joshua R. Goldstein**, Max Planck Institute for Demographic Research; **Mikko Myrskylä**, Max Planck Institute for Demographic Research; **Carl P. Schmertmann**, Florida State University; **Emilio Zagheni**, Max Planck Institute for Demographic Research

Modifying the Lee-Carter Method to Project Mortality Changes Up to 2100 • **Nan Li**, United Nations; **Patrick Gerland**, United Nations Population Division

Dynamics of Death in the Lee-Carter Model • **Shripad Tuljapurkar**, Stanford University

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Saturday, April 2, 8:30 AM - 10:20 AM

FORMAL DEMOGRAPHY II

Chair: **Adrian Raftery**, University of Washington

Discussant: **Patrick Gerland**, United Nations Population Division

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Comparing Methods of Inferring Population Size from Incomplete Travel Data • **Bryan Baker**, U.S. Department of Homeland Security (DHS)

Cause-Decomposition of the Change over Time in the Modal Age at Death • **Vladimir Canudas-Romo**, Johns Hopkins University

Stochastic Population Forecast: A Supra-Bayesian Approach to Combine Expert Opinions and Observed Past Forecast Errors • **Rebecca Graziani**, and **Eugenio Melilli**, Università Bocconi

A Modified Lee-Carter Model for Analyzing Short Base Period Data • **Bojuan Zhao**, Tianjin University of Finance and Economics

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From the Editor

Please send me any and all manner of contributions, including short articles, opinion pieces, book and article announcements, retirements, job changes, and other newsworthy events.

So keep those cards and letters coming to jeffrey.timberlake@uc.edu. Thanks much,

Jeff