

Nicholas Tibor Longford

Born on 20th June 1955 in Vel'ké Kapušany, Czechoslovakia

Education

Leeds University, Leeds	1982	PhD.	Statistics
Sussex University, Brighton	1979	MSc.	Statistics
Charles University, Prague, Czechoslovakia	1978	Prom. Math.	Mathematics/ Statistics

Employment History

6/2004–	Statistical Consultant (self-employed), SNTL
9/1995–6/04	Senior Research Fellow, Department of Medical Statistics, De Montfort University, Leicester
1994–95	Senior Research Scientist, Division of Statistics and Psycho- metric Research, Educational Testing Service, Princeton, NJ, USA
1990–94	Research Scientist, Division of Statistics and Psychometric Research, Educational Testing Service, Princeton, NJ, USA
1986–90	See <i>Visiting Appointments</i> , p. 2.
1983–86	Research Fellow, Centre for Applied Statistics, Lancaster University, Lancaster
1983	Statistician, Division of Research and Development, Boots plc, Nottingham
1982–83	Statistician, Institute of Hearing Research, Medical Research Council, Nottingham

Visiting Appointments and Secondments

Sept.–Dec. 2007	Associate Professor, Department of Economics and Business Studies, University of Pompeu Fabra, Barcelona, Spain
Jan.–Febr. 2007	Visiting Professor, Department of Statistics, University of Khartoum, Sudan
June 2005–Dec. 2006	Visiting Professor, Department of Economics and Business Studies, University of Pompeu Fabra, Barcelona, Spain
July–Nov. 2003	Academic Visitor, Institute of Information Science and Technology, Massey University, New Zealand
Jan.–Febr. 2002	Visiting Professor, Department of Statistics, University of Khartoum, Sudan
2001–2004	Secondment, Office for National Statistics, London
March–July 1995	Visiting Professor, Department of Economics, University of Pompeu Fabra, Barcelona, Spain
June–July 1994	Visitor, Department of Statistics, University of Adelaide, Australia
May–June 1994	Visiting Professor, Zentrum für Umfragen, Methoden, und Analysen, Mannheim, Germany
June–July 1991	ESRC Visiting Research Fellow, University of London Institute of Education, London, England
Jan.–Sept. 1991	Visiting Lecturer, Institute for Electronic Systems, Aalborg University, Aalborg, Denmark
1989–90	Visiting Associate Professor, Department of Mathematics, UCLA, Los Angeles, CA, USA
Jan.–Febr. 1989	Visiting Scientist, Institute of Pure and Applied Mathematics, the Brazilian Academy of Sciences, Rio de Janeiro, Brazil
1986–89	Visiting Research Scientist, Research Statistics Group, Educational Testing Service, Princeton, NJ, USA

Lecturing Experience

Sept.–Dec. 2007	Department of Economics and Business Studies, University of Pompeu Fabra, Barcelona, Spain
Jan.–Febr. 2007	Department of Statistics, Khartoum University, Sudan (MSc. course in Statistics)
Sept.–Dec. 2006 Sept.–Dec. 2005	Department of Economics and Business Studies, University of Pompeu Fabra, Barcelona, Spain (GPEFM Programme)
Aug.–Nov. 2003	Institute of Information Systems and Technology, Massey University, Palmerston North, New Zealand
Jan.–Febr. 2002	Department of Statistics, Khartoum University, Sudan (MSc. course in Statistics)
August 1998	Summer University Course in Statistics for Social Sciences, Central European University, Budapest, Hungary
Jan.–Sept. 1991	Institute for Electronic Systems, Aalborg University, Aalborg, Denmark
1989–90	Department of Mathematics, UCLA, Los Angeles, CA

PhD. Graduates

- 1998 Jixian Wang, *Design and Analysis of Pharmacokinetic and Pharmacodynamic Trials* (supervision with Byron Jones)
- 1999 Joanna J. Worth, *Learning Styles and Electronic Library Systems* (supervision with Christine Fidler and Simon Bennett)
- 2000 Liaqat Ali, *Towards a Strategic Information Systems Planning for Pakistani Business* (supervision with Simon Rogerson and Christine Filder)
- 2000 Yunus Zakharia, *Management Regimes for Commercial Exploitation of Tropical Forests* (supervision with Robert Weddeburn)
- 2002 Nicole Blackman, *Criteria for Demonstrating the Efficacy of a Medical Test*
- 2003 Ricky Autar, *Advancing Clinical Practice in the Management of Deep Vein Thrombosis* (supervision with Frank Dewhurst)
- Patrick Johnson, *Modelling Maximal and Submaximal Oxygen Uptake of in Men and Women* (supervision with Ed Winter and Alan Nevill)
- 2004 Margaret Ely, *Dealing with Missing Data by Multiple Imputation in an Epidemiological Study of Alcohol Consumption* (UC London, supervision with M. Wadsworth)
- Katy D. Taylor, *Equine Headshaking Syndrome: An Epidemiological Study* (supervision with D. Mills and B. Jones)
- 2005 Carola Deppe, *Designs for Sensory Multi-session Trials with Preparation Constraints* (supervision with R. Carpenter and B. Jones)
- Ula Nur, *Handling Missing Data in Analyses of the Women's Cohort Study* (Leeds University, supervision with J. Cade and D. Greenwood)

Consulting Experience (selected projects)

- 2005– National Standards Association for Ireland, Dublin, Ireland
(Audit of the Mail Monitor)
- 2004–05 Home Office, Research Statistics and Development, London, UK
(Estimation of Juvenile Reconviction Rates)
- 2003–05 World Bank and Ukrainian Ministry of Labour and Social Affairs
(Small-area estimation of poverty rates)
- 2003– Valuation Consultants, New Zealand (Prediction of house prices)
- 2001–04 Scottish Homes/Communities Scotland (Surveyor inconsistency)
- 2001–02 Agilent Technologies (Management of customer relationship)
- 1–5/2000 UK Department of Trade and Industry (E-commerce: Mapping
measures of success)
- 1999–00 The Planning Unit, De Montfort University, Leicester (Widening
participation project)
- 1999 Consortium for Automotive Recycling (The future of used-car
disposal)
- 1997–98 The National Household Health Expenditure Survey in Malaysia
University of Malaya, Kuala Lumpur (Survey analysis)
- 1995–99 Member of CliniStat, a statistics consulting group at De Mont-
fort University, Leicester
- 1995–98 Interuniversity Council of Catalonia (Assessing the quality of
essay rating)
- 1994–95 Centers for Disease Control, Atlanta, GA, USA (Adolescent
HIV/STD Prevention)
- 1993–96 Institute for Employment and Labour Market Research,
Nürnberg, Germany (Trends in wage differences)
- 1993–94 Centocor (a biotechnology company), Philadelphia, PA, USA
(Equivalence in diagnostics)
- 1991–92 PEAR Laboratory, School of Engineering, Princeton Univer-
sity (Analysis of experiments with random event generation)
- 1987–89 The World Bank, Washington, DC, USA (School effectiveness
in Third World countries)

Professional Activities

Research Grants and Awards

- 2005–06 Research Grant from the Spanish Ministry of Education and Science for a Sabbatical at Universitat Pompeu Fabra, Barcelona, Spain
- 2000–02 Campion Fellowship 2000
- 1999–00 Three grants under the Training and Mobility of Researchers Programme of the European Union, Universities of Bergen, Norway, and Cologne, Germany, and CEPS/INSTEAD, Luxembourg
- 1997–00 Antecedents of midlife alcohol consumption and problems with alcohol (with Prof. M. Wadsworth, UC London). Two grants from the Alcohol Education Research Council, UK
- 1996–98 Small-area estimation of U. S. state-level means in NAEP (National Assessment of Educational Progress). Grant from NCES, U. S. Department of Education
- 1994–97 Subjective rating in large-scale educational surveys. Grant from NCES, U. S. Department of Education
- 1994–95 Statistical models in social sciences (with Prof. A. Satorra, Universitat Pompeu Fabra, Barcelona). Grant from the Spanish Ministry of Education and Science
- 1992–93 Model-based substitutes for jackknife in NAEP (National Assessment of Educational Progress). Grant from NCES, U. S. Department of Education
- 1985–86 Statistical analysis of data from surveys with complex sampling design (with Prof. M. Aitkin). Economic and Social Science Research Council, UK

Offices Held

- 1994–95 President of the Princeton-Trenton (NJ) Chapter of ASA

Affiliations

American Statistical Association
The Royal Statistical Society

Other professional activities

- 2005– Member of the Research Section Committee of the Royal Statistical Society
- 2004 Associate Editor, Journal of the Royal Statistical Society, Series A
- 2003–04 External PhD. examiner, Massey University, New Zealand
- 2003–05 Member of the EPSRC Peer Review College
- 2002 External PhD. examiner, University of Pompeu Fabra, Barcelona, Spain
- 2002–2007 Member of the Editorial Board, British Journal of Mathematical and Statistical Psychology
- 2001 External PhD. examiner, Universitat Pompeu Fabra, Barcelona, Spain
- 2001– Member of the Social Statistics Section and the Programme Committees, the Royal Statistical Society
- 2001–03 Associate Editor, Journal of the Royal Statistical Society, Series D (The Statistician)
- 2000–04 Editor (Member of the Board), Journal of Multivariate Analysis
- 1998 External PhD. examiner, Universitat Politècnica de Catalunya, Barcelona, Spain
- 1996– Supervision of PhD. students at De Montfort University
- 1995–02 Associate Editor of the Journal of Educational and Behavioral Statistics
- 1994–95 Member of a PhD. Thesis Committee at the Graduate School of Education, Rutgers University, New Brunswick, NJ
- 1992–95 Supervision of pre- and post-doctoral interns at ETS

Publications¹

Monographs

Studying Human Populations. An Advanced Course in Statistics. Springer-Verlag, New York, 2007.

Missing Data and Small-Area Estimation. Analytical Equipment for the Survey Statistician. Springer-Verlag, New York, 2005.

Models for Uncertainty in Educational Testing. Springer-Verlag, New York, 1995.

Random Coefficient Models. Oxford University Press, Oxford, 1993.

Software

VARCL – Software for variance component analysis of data with nested random effects (maximum likelihood). iec ProGamma, Groningen, the Netherlands, 1993.

In Refereed Journals

An alternative analysis of variance. *SORT*, Journal of the Catalan Institute of Statistics, **32**, 2008, to appear.

On standard errors of model-based small-area estimators. *Survey Methodology* **33**, 69–79, 2007. (De l'erreur-type des estimateurs pour petits domaines fondés sur un modèle. *Techniques d'enquête* **33**, 81–92, 2007.)

Stability of household income in European countries in the 1990's (with Grazia Pittau). *Computational Statistics and Data Analysis* **51**, 1364–1383, 2006.

Sample size calculation for small-area estimation. *Survey Methodology* **32**, 87–96, 2006. (Calcul de la taille de l'échantillon pour l'estimation pour petits domaines. *Techniques d'enquête* **32**, 97–106, 2006.)

Analysis of a long-term study of neurotic disorder, with insights into the process of non-response (with P. Tyrer, U. Nur and H. Seivewright). *Journal of the Royal Statistical Society Ser. A* **169**, 507–523, 2006.

Using small-area estimates. *Statistics in Transition* **9**, 715–735, 2005.

¹Multi-author items are listed only when NTL is the first author.

Dealing with incomplete data in food frequency questionnaires (with U. Nur, D. Greenwood and J. Cade). *Statistics in Transition* **9**, 111–134, 2005.

Editorial: Model selection and efficiency. Is ‘Which model ...?’ the right question? *Journal of the Royal Statistical Society Ser. A* **168**, 469–472, 2005.

On selection and composition in small-area and mapping problems. *Statistical Methods in Medical Research* **14**, 3–16, 2005.

Missing data and small area estimation in the UK Labour Force Survey. *Journal of the Royal Statistical Society Ser. A* **167**, 341–373, 2004.

An alternative to model selection in ordinary regression. *Statistics and Computing* **13**, 67–80, 2003.

Estimation of the rates and composition of employment in Norwegian municipalities. *Journal of Official Statistics* **17**, 391–406, 2001.

Multilevel analysis with messy data. *Statistical Methods in Medical Research* **10**, 429–444, 2001.

Synthetic estimators with moderating influence: Carry-over in cross-over trials revisited. *Statistics in Medicine* **20**, 3189–3203, 2001.

Attitudes to immigration in an international social survey. *Statistics in Transition* **5**, 267–280, 2001.

Simulation-based diagnostics in random coefficient models. *Journal of the Royal Statistical Society Ser. A* **164**, 259–273, 2001.

Handling missing data in diaries of alcohol consumption (with M. Ely, R. Hardy, and M. E. J. Wadsworth). *Journal of the Royal Statistical Society Ser. A* **163**, 381–402, 2000.

On estimating standard errors in multilevel analysis. *The Statistician* **49**, 389–398, 2000.

An alternative definition of individual bioequivalence. *Statistica Neerlandica* **54**, 14–36, 2000.

An experiment in primary health-care provision. *Journal of the Royal Statistical Society Ser. A* **162**, 291–302, 1999.

Statistics vs. statistical science in the regulatory process (with J. A. Nelder). *Statistics in Medicine* **18**, 2311–2320, 1999.

Selection bias and treatment heterogeneity in clinical trials. *Statistics in Medicine* **18**, 1467–1474, 1999.

Multivariate shrinkage estimation of small-area means and proportions. *Journal of the Royal Statistical Society Ser. A* **162**, 227–245, 1999.

Monitoring the university admissions process in Spain (with A. Cuxart i Jardí). *Higher Education in Europe* **23**, 385–396, 1998.

A two-level regression model for comparing growth curves of crossed correlated treatment measures (with M. M. Ojeda). *Biometrical Journal* **40**, 447–454, 1998.

Count data and treatment heterogeneity in 2×2 crossover trials. *Applied Statistics* **46**, 217–229, 1998.

Shrinkage estimation of linear combinations of true scores. *Psychometrika* **62**, 237–244, 1997.

Model-based estimation in surveys with stratified clustered design. *The Australian Journal of Statistics* **38**, 333–352, 1996.

Small-area prediction using adjustment for covariates. *Qüestió* **20**, 187–212, 1996. Statistical Institute of Catalonia, Barcelona, Spain.

Reconciling experts' differences in setting cut-scores for pass/fail decisions. *Journal of Educational and Behavioral Statistics* **21**, 203–213, 1996.

Hierarchical models and social sciences. *Journal of Educational and Behavioral Statistics* **20**, 205–209, 1995.

Reliability of essay rating and score adjustment. *Journal of Educational and Behavioral Statistics* **19**, 171–201, 1994.

Empirical Bayes methods for estimating hospital specific mortality rates (with N. Thomas and J. E. Rolph). *Statistics in Medicine* **13**, 889–903, 1994.

Logistic regression with random coefficients. *Computational Statistics and Data Analysis* **17**, 1–15, 1994.

Regression analysis of multilevel data with measurement error. *British Journal of Mathematical and Statistical Psychology* **46**, 301–311, 1993.

Factor analysis for clustered observations (with B. O. Muthén). *Psychometrika* **57**, 581–597, 1992.

Multivariate variance component analysis: An application in test development. *Journal of Educational Statistics* **15**, 91–112, 1990.

Normal variance component modelling and exponential family extensions. *Austrian Journal of Statistics and Information Science* **17**, 352–359, 1987.

A fast scoring algorithm for maximum likelihood estimation in unbalanced mixed models with nested random effects. *Biometrika* **74**, 817–827, 1987.

Industry effects and the proportionality assumption in ratio analysis: A variance component analysis (with S. Fieldsend and S. McLeay). *Journal of Business Finance and Accounting* **14**, 497–517, 1987.

Statistical modelling issues in school effectiveness studies (with Discussion, with M. A. Aitkin). *Journal of the Royal Statistical Society Ser. A* **149**, 1–43, 1986.

Mixed linear models and an application to school effectiveness. *Computational Statistics Quarterly* **2**, 109–117, 1985.

An eigenvalue decomposition for first hitting times in random walks (with J. T. Kent). *Zeitschrift für Wahrscheinlichkeitstheorie und verwandte Gebiete* **63**, 71–84, 1983.

In Edited Volumes

Missing data. In J. de Leeuw and E. Meijer (Eds.), *Handbook of Multilevel Analysis*. Chapter 10, pp. 377–399. Springer-Verlag, New York, NY, 2008.

Probabilistic models of measurement errors. In T. Rudas (Ed.), *Handbook of Probability: Theory and Applications*. Chapter 15, pp. 239–253. Sage Publications, Thousand Oaks, CA, 2008.

On standard errors of model-based small-area estimators. In the *Bulletin of the International Statistical Institute, 56th Session*. Proceedings of the 2007 Conference, Lisbon, Portugal (CD-ROM), 2007.

Patterns of house price inflation in New Zealand, 1996–2002. (with I. McCarthy and G. Dowse). In K. van Montfort, J. Oud and A. Satorra (Eds.), *Longitudinal Analysis in Behavioural and Related Sciences*, Chapter 17, pp. 403–433. L. Erlbaum and Associates, Mahwah, NJ, 2006.

Is ‘Which model ...?’ the right question? In A. Rizzi and M. Vichi (Eds.), *Compstat 2006. Proceedings in Computational Statistics*, pp. 337–349. Physica-Verlag, Heidelberg, 2006.

Three articles (‘Variance Components’, ‘Predicting Random Effects’ and ‘Conditional Independence’) in the *Encyclopedia of Statistics in Behavioral Science*, B. Everitt, Chief Editor, Wiley, 2005.

On missing data in self-completion diaries (with M. Ely, R. Hardy and M. E. J. Wadsworth). In J. C. Misra (Ed.) *Industrial Mathematics and Statistics*, pp. 605–622. Narosa Publishing House, New Delhi, India, 2003.

Synthetic estimation: From small area statistics to model selection. In J. C. Misra (Ed.) *Applicable Mathematics. Its Perspectives and Challenges*, pp.

295–303. Proceedings of ICRAMS’2000, Kharagpur, India. Narosa Publishing House, New Delhi, India, 2001.

Selection bias and treatment heterogeneity in drug development. In J. C. Misra (Ed.) *Applicable Mathematics. Its Perspectives and Challenges*, pp. 419–428. Proceedings of ICRAMS’2000, Kharagpur, India. Narosa Publishing House, New Delhi, India, 2001.

Mean repair costs of dwellings in Scottish unitary authorities: An application of shrinkage (with C. Macintyre). In R. Banks *et al.* (Eds.) *Leading Survey and Statistical Computing into the New Millennium*. Proceedings of the Third ASC International Conference, pp. 347–354. Conference held in Edinburgh, UK, 22–24th September, 1999. Association for Survey Computing, Chesham, Bucks, 1999.

Shrinkage estimation of local-area rates of economic activity. In A. Westlake *et al.* (Eds.) *New Methods for Survey Research*. Proceedings of the International Conference, pp. 152–164. Conference held in Southampton, UK, in August, 1998. Association for Survey Computing, Chesham, Bucks, 1998.

Population issues in crossover trials. In L. Aarons *et al.* (Eds.), *The Population Approach: Measuring and Managing Variability in Response, Concentration and Dose*, pp. 383–384. Conference held in Geneva, Switzerland, in February, 1997. COST B1 Medicine. European Cooperation in the Field of Scientific and Technical Research. European Communities, Brussels, 1997.

Random coefficient models. In G. Arminger, M. Sobel, and C. C. Clogg (Eds.), *Handbook of Statistical Modeling for the Social and Behavioral Sciences*. Chapter 10, pp. 519–577. Plenum, New York, 1995.

Stability of MH D-DIF statistics across populations (with P. W. Holland and D. T. Thayer). In P. W. Holland and H. Wainer (Eds.), *Differential Item Functioning*, pp. 171–196. Lawrence Erlbaum Associates, Hillsdale, NJ, 1993.

Logistic regression with random coefficients. In P. G. M. van der Heijden, W. Jansen, B. Francis, and G. U. H. Seeber (Eds.), *Statistical Modelling*, pp. 205–214. Elsevier Science Publishing Co., New York, NY, 1992.

A variance components approach to interviewer effects (with R. D. Wiggins and C. A. O’Muirchaertaigh). In A. Westlake, R. Banks, C. Payne, and T. Orchard (Eds.), *Survey and Statistical Computing*. Elsevier Science Publishing Co., New York, NY, 1992.

Classes of multivariate exponential and multivariate geometric distributions derived from Markov processes. In T. Savits, A. Sampson, and H. Block

(Eds.), *Topics in Statistical Dependence. Proceedings of the Symposium on Dependence in Statistics and Probability*. IMS Lecture Notes 16, 1991.

School effects on mathematics achievement gain in Thailand (with M. E. Lockheed). In S. W. Raudenbush and J. D. Willms (Eds.), *Schools, Classrooms and Pupils: International Studies of Schooling from a Multilevel Perspective*. Academic Press, London, 1991.

Searching for multivariate outcomes in education. In S. W. Raudenbush and J. D. Willms (Eds.), *Schools, Classrooms and Pupils: International Studies of Schooling from a Multilevel Perspective*. Academic Press, London, 1991.

Variance component models and observational data. In P. van den Eeden and J. Hox (Eds.), *Theory and Models in Multilevel Research: Convergence or Divergence?* SISWO, Amsterdam, the Netherlands, 1990.

Fisher scoring algorithm for variance component analysis of data with multilevel structure. In R. D. Bock (Ed.), *Multilevel Analysis of Educational Data*. Academic Press, New York, NY, 1988.

Reviews

Research Methodology in the Social, Behavioural and Life Sciences, by H. J. Adèr and G. Mellenbergh (eds.), Sage, London, 1999. Review in *The Statistician* **49**, 620–621, 2000.

The New Statistical Analysis of Data, by T. W. Anderson and J. D. Finn, Springer-Verlag, New York, 1996, and *The SPSS Guide to The New Statistical Analysis of Data*, by S. B. Gerber and K. E. Voelkl, Springer-Verlag, New York, 1998. Reviews in *Statistics in Medicine* **18**, 1019–1022, 1999.

The Theory of Sample Surveys, by M. E. Thompson. Chapman and Hall, London, 1997. Review in *The Statistician* **48**, 156–157, 1999.

Seeing Through Statistics, by J. Utts. Duxbury Press, 1996. Review in *Statistics in Medicine* **16**, 2931–2932, 1997.

Nonlinear Models for Repeated Measurement Data, by M. Davidian and D. M. Giltinan. Chapman and Hall, 1995. Review in *Journal of Applied Statistics* **23**, 452–453, 1996.

Hierarchical Linear Models: Applications and Data Analysis Methods, by A. S. Bryk and S. W. Raudenbush. Sage Publications, 1992. Review in *Contemporary Sociology* **22**, 293–295, 1993.

Contextual Analysis, by G. R. Iversen. Sage Publications, 1991. Review in *Contemporary Sociology* **21**, 551, 1992.

Bayesian and Likelihood Methods in Statistics and Econometrics. Essays in Honor of George A. Barnard; S. Geisser, J. S. Hodges, S. J. Press, and A. Zellner (Eds.). North-Holland, Amsterdam, 1990. Review in *Journal of the American Statistical Association* **86**, 245, 1991.

Other

Discussion of Diggle, P., Farewell, D., and Henderson, R. ‘Analysis of longitudinal data with drop-out: objectives, assumptions and a proposal.’ *Applied Statistics* **56**, 537–538, 2007.

Discussion of Zeng, D., and Lin, D. Y. ‘Maximum likelihood estimation in semiparametric regression models with censored data.’ *Journal of the Royal Statistical Society Ser. B* **69**, 554, 2007.

Discussion of Handcock, M. S., Raftery, A. E., and Tantrum, J. M. ‘Model-based clustering for social networks.’ *Journal of the Royal Statistical Society Ser. A* **170**, 329, 2007.

Playing consequences. Letter to the Editor. *Significance* **4**, 46, 2007.

Discussion of Farrington, C. P., and Whittaker, H. J. ‘Semiparametric analysis of case series data.’ *Journal of the Royal Statistical Society Ser. C* **55**, 586, 2006.

Discussion of Brien, C. J., and Bailey, R. A. ‘Multiple randomization.’ *Journal of the Royal Statistical Society Ser. A* **68**, 603–604, 2006.

Correspondence. (A comment on Jackson, D., Copas, J., and Sutton, A. J. *Journal of the Royal Statistical Society Ser. A* **168**, 737–752, 2005); *Journal of the Royal Statistical Society Ser. A* **169**, 647–648, 2006.

Discussion of Copas, J. B., and Eguchi, S. ‘Local model uncertainty and incomplete-data bias.’ *Journal of the Royal Statistical Society Ser. B* **67**, 498, 2005.

Discussion of Rigby, R. A., and Stasinopoulos, D. ‘Generalized additive mixed models for location, variation and shape.’ *Applied Statistics* **54**, 549–550, 2005.

Discussion of Greenland, S. ‘Multiple-bias modelling for analysis of observational data.’ *Journal of the Royal Statistical Society Ser. A* **168**, 299, 2005.

What standards? Letter to the Editor. *Significance* **1**, 188, 2004.

Discussion of Redfern, P. ‘An alternative view of the 2001 census and future census taking.’ *Journal of the Royal Statistical Society Ser. A* **167**, 240–241, 2004.

Further 43 items from 1985–2003.

Technical Reports

An assessment of empirical Bayes and composite estimators for small areas. Working Paper No. 995, Departament d’Economia i Empresa, Universitat Pompeu Fabra, Barcelona, Spain, 2006.

<http://www.econ.upf.edu/cat/research/onepaper.php?id=995>

Performance assessment and league tables. Comparing like with like (with D. B. Rubin). Working Paper No. 994, Departament d’Economia i Empresa, Universitat Pompeu Fabra, Barcelona, Spain, 2006.

<http://www.econ.upf.edu/cat/research/onepaper.php?id=994>

EURAREA Project. Enhancing small area estimation techniques to meet European needs. Office for National Statistics, London, 2004. (Three volumes, coauthor as a member of the EURAREA Consortium.)

Programme for Poverty Relief in Ukraine. Final Report for the Ministry of Labour and Social Policy of Ukraine. State Statistics Commission, Kiev, Ukraine, 2004.

Stability of household income in European countries in the 1990’s. (with M. Grazia Pittau). IRISS Working Paper Series 2003–8, Differdange, Luxembourg, 2003.

Subjective rating in NAEP. Final Report. National Center for Educational Statistics, Washington, DC, 1999.

Monitoring the university admissions process in Spain (with A. Cuxart i Jardí). *Economics Working Papers Series 257*. University of Pompeu Fabra, Barcelona, Spain, 1998.

Adjustment for reader rating behavior in the Test of Written English. *ETS Technical Report RR–95–39*. Educational Testing Service, Princeton, NJ, 1995.

A case for adjusting subjectively rated scores in the Advanced Placement tests. *ETS Technical Report RR–94–5*. Educational Testing Service, Princeton, NJ, 1994.

Model-based methods for analysis of data from 1990 NAEP Trial State Assessment. Final Report. National Center for Educational Statistics, Washington, DC, 1994.

Models for scoring missing responses to multiple-choice items. *ETS Technical Report* RR-94-9. Educational Testing Service, Princeton, NJ, 1994.

Reliability of essay rating and score adjustment. *ETS Technical Report* RR-93-36. Educational Testing Service, Princeton, NJ, 1993.

A statistical framework for severity adjustment of hospital mortality rates (with N. Thomas and J.E. Rolph). *RAND Technical Report* N-3501-HCFA. RAND, Santa Monica, CA, 1992.

Comparison of efficiency of jackknife and variance component estimators of standard errors. *ETS Technical Report* RR-92-24. Educational Testing Service, Princeton, NJ, 1992.

Negative coefficients in the GRE Validity Study Service. *ETS Technical Report* RR-91-26. Educational Testing Service, Princeton, NJ, 1991.

Standard errors for the means of proficiencies in NAEP: Jackknife versus variance components. *UCLA Statistics Series* 47. University of California, Los Angeles, CA, 1990.

A multilevel model of school effectiveness in a developing country (with M. E. Lockheed). *Policy, Planning and Research Working Papers* WPS 242. Washington, D.C., 1989.

Dissertations

Hitting times in stochastic processes (Leeds U., 1982, PhD.).

Crossover design in clinical trials (Sussex U., 1979, MSc.).

The power function of the Wilcoxon two-sample test (Charles U., 1978).

Presentations, since January 2006

Professional Training Course in Longitudinal Analysis. MRC Uganda, Entebbe, January 2006.

Is ‘Which model . . .?’ the right question? Statistics seminar at Universitat Autònoma de Barcelona, Bellaterra, Spain, March 2006.

Invited paper ‘Is “Which model . . .?” the right question?’ at Compstat 2006, Rome, August 2006.

Invited paper ‘Designing surveys for small-area estimation’ at the Conference on Survey Sampling in Social and Economic Research, Katowice, Poland, September 2006.

Speaker at the Meeting of the Official Statistics Section of the Royal Statistical Society, London (House prices in New Zealand, 1996–2002), October 2006.

Seminar in the Department of Informatics and Applied Mathematics, University of Girona, Spain (Some bad models for good inference), December 2006.

Short course on Multilevel Analysis, Faculty of Mathematical Sciences, University of Khartoum, Sudan, February 2007.

Seminar in the Department of Applied Statistics, University of Reading, UK (Some bad models for some good inferences), March 2007.

Speaker at the ESRA 2007 Conference, Prague, Czech Republic (Studying human populations. A new curriculum for social statistics), June 2007.

Seminar in the Centre for Mathematics and its Applications, Australian National University, Canberra, Australia (Some bad models for some good inferences), August 2007.

Speaker at the Meeting of the Wellington Statistical Society, Wellington, New Zealand (Allocating a fixed budget to small areas and similar problems), August 2007.

Invited speaker at the ISI2007 Conference in Lisbon, Portugal (On standard errors of model-based small-area estimators), August 2007.

Manuscripts submitted

An assessment of empirical Bayes and composite estimators for small areas.

An application of shrinkage to dealing with extreme values.

Analysis of all-zero binomial outcomes with borderline and equilibrium priors.

N. T. Longford, Barcelona

April 2008.