CURRICULUM VITAE
THOMAS A. LOUIS, PhD

Address
Thomas A. Louis, PhD
9788 Pintail Place, St Michaels, MD 21663
phn: 1.202.494.9331, email: tlouis1@jhu.edu
http://www.biostat.jhsph.edu/~tlouis/

Education
1966 BA Dartmouth College, with honors in Mathematics
1972 PhD Columbia University, Mathematical Statistics

Principal Professional Appointments
2018– Professor Emeritus of Biostatistics, Johns Hopkins Bloomberg School of Public Health
2002–2017 Professor of Biostatistics, Johns Hopkins Bloomberg School of Public Health
2013–2015 Associate Director for Research & Methodology and Chief Scientist, U. S. Census Bureau; via an Interagency Personnel Agreement with Johns Hopkins
2000–2002 Senior Statistical Scientist, The RAND Corporation
1987–2000 Professor of Biostatistics, U of Minnesota School of Public Health
1987–1999 Head of Biostatistics, U of Minnesota School of Public Health
1987–2000 Professor, U of Minnesota School of Statistics
1979–1987 Associate Professor of Biostatistics, Harvard School of Public Health
1973–1979 Assistant Professor of Mathematics, Boston University
1972–1973 NIH Postdoctoral Fellow, Mathematics, Imperial College, London
1971–1972 Lecturer, Department of Mathematical Statistics, Columbia U
1970–1971 Consultant, IBM Thomas J. Watson Research Lab., Yorktown Heights, NY
1966–1967 Actuarial Trainee, Chubb and Son, New York

Other Professional Appointments
2018–2020 Expert Statistical Consultant, Center for Drug Evaluation & Research, Food & Drug Administration
2018– Affiliate Professor of Statistics, George Mason University
2016– Affiliated member, The Johns Hopkins Spatial Science for Public Health Center
2016 Distinguished Senior Research Fellow, U. S. Census Bureau
2012–2016 Core faculty member, Johns Hopkins Armstrong Institute for Patient Safety and Quality
2011 “Summer at Census” Scholar
2001–2003 Adjunct Professor, Epidemiology & Biostatistics, George Washington U
2000–2002 Adjunct Professor, Biostatistics, Johns Hopkins Bloomberg SPH
1999 Visiting Scholar, Committee on National Statistics, National Academy of Sciences
1995–1996 Visiting Professor, Afdeling Medische Statistiek, U of Leiden, NL
1994–2000 Member, U of Minnesota Cancer Center
1991–1998 Adjunct Associate, Hubert H. Humphrey Inst. of Public Affairs, U of Minnesota
1991–1996 Adjunct Professor, Biostatistics, Emory University School of Public Health
1988 Visiting Professor, Tongji Medical U, Wuhan People’s Republic of China
1986 Visiting Scientist, Center for Mathematics and Computer Science, Amsterdam NL
1984 Visiting Professor, Biostatistics, U of North Carolina, Summer Term
1979–1981 Director, Biostatistics Consulting Laboratory, Harvard School of Public Health
1974–1979 Consultant, Boston University Medical School
Other Professional Appointments (continued)
1974–1979 Member, Boston University Cancer Center
1969–1970 Summer Employee, IBM T. J. Watson Research Lab., Yorktown Heights, NY

HONORS AND AWARDS
1967–1971 Fellow of the Faculty, Columbia University
1985 Elected member, International Statistical Institute
1988 Fellow of the American Statistical Association (ASA)
1988 Delta Omega Honorary Public Health Society
1991–1993 President-elect, president, past; Intl. Biometric Soc., Eastern North American Region (ENAR)
1996 Fellow of the American Association for the Advancement of Science (AAAS)
2003 ENAR President’s Invited Address, “Aids to Statistical Navigation”
2005-2008 President-elect, President, Past-president; International Biometric Society
2010-2013 Chair-elect, Chair, Retiring Chair, AAAS Statistics Section (U)
2014 Charles L. Odoroff Memorial Lectureship, University of Rochester
2016 Honorary Life Member, International Biometric Society
2016 National Associate of the National Research Council
2017 Fellow of the Institute of Mathematical Statistics
2018 Doctor Honoris Causa, Hasselt University, Belgium

PROFESSIONAL ACTIVITIES
Memberships
American Association for the Advancement of Science
American Association of Public Opinion Research
American Statistical Association, PStat®
Institute of Mathematical Statistics
International Biometric Society
International Society for Bayesian Analysis
International Statistical Institute
Royal Statistical Society

Editorial
2011– Editorial Committee, Annual Review of Statistics and Its Application
2017–present, Associate Editor
1972– Refereeing for statistical, biomedical, epidemiologic and environmental journals
2018 Associate Editor, special issue of The American Statistician on statistical inference
2009-2011 Co-editor, Biometrics
2006–2008 Coordinator, IBS Prose Editing Project
2004–2008 Editorial Board, Biostatistics
2003–2008 Editorial Board, Clinical Trials
2002–2002 Co-editor, Formula Funds Allocation special issue, Journal of Official Statistics
2001–2003 Editor & coordinating editor, J. Am. Statist. Assoc., Applications and Case Studies
1999–2002 Editorial Board, Applied Stochastic Models in Business and Industry
1999–2000 Associate Editor, Controlled Clinical Trials
1998–2000 Associate Editor, Statistical Science
1997–2018 Editorial Board, Chapman&Hall Series on Statistics and Applied Probability
1996–1999 Associate Editor, statistica neerlandica
1992–1998 Co-Editor, Chance
1993–1995 Editorial Board, ASA-SIAM Series on Statistics and Applied Probability
1989–1994 Editorial Board, Statistics in Medicine
1988–1991 Associate Editor, JASA Theory and Methods
**Professional Organization Administration**

2016-2017 Search Committee, *Biometrics* Executive Editor
2011-2013 Chair-elect, chair, past chair, AAAS Section-U, Statistics
2010-2012 Local Organizing Committee, IBS International Biometric Conference, Kobe Japan, 2012
2009–2015 IBS Editorial Advisory Committee
2009-2010 Chair, International Biometric Society, Council of Presidents
2009-2010 IBS/ENAR Nominations Committee
2008 Outgoing vice-President, International Biometric Society
2007 Organizing & Scientific Programme Committee, East Asia Regional Biometric Conference, Tokyo
2006-2007 President, International Biometric Society
2005-2006 IBS/ENAR Nominations Committee
2005 Incoming vice-President, International Biometric Society
2004 Executive Committee, ASA Section on Bayesian Statistical Science
2002–2003 Chair-elect/chair, ASA Section on Bayesian Statistical Science
2002 Member, ENAR Educational Advisory Committee
2002 Associate Director, Search Committee, National Institute of Statistical Sciences
2002 Chair, Nomination Committee, National Institute of Statistical Sciences
2001–2002 Program Committee, Year 2001 International Statistical Institute Conference
2001–2002 Program Committee, Year 2002 Intl. Epidemiologic Association Conference
2001 ASA-IMS Task Force to select statistical reviewers for Science
2001 ENAR management review
2000–2001 ENAR Nominating Committee
2000–2005 Member, ASA Scientific and Public Affairs Advisory Committee
2000–2002 Executive Committee, National Institute of Statistical Sciences
1999–2000 Program Committee, Year 2000 International Biometric Conference
1998–2000 ENAR Liaison to the ASA
1998 ENAR management review
1997–2002 Trustee, National Institute of Statistical Sciences (NISS)
1997–1999 Chair, Fellow Selection Committee, International Biometric Society
1997 ASA search Committee for new *Chance* editor
1994–1997 Council, International Biometric Society
1993–1996 IMS, Committee on Scientific Policy
1993–1996 AAAS Electorate Nominating Committee
1993 Chair, ASA Editor search Committee, *JASA Applications and Case Studies*
1993 Chair, ASA Sub-committee to Evaluate Health Science Journal Options
1993 Steering Committee, Research Synthesis: Social Science Informing Public Policy
1992 Nominating Committee, JASA book review editor
1992 President, Biometric Society, ENAR
1991–1993 Executive Committee, Biometric Society ENAR
1991–1992 Committee of Presidents of Statistical Societies
1991 Advisory Board, NISS
1988 Program Chair, Intl. Biometrics Society-ENAR Spring Meeting, Boston MA
1988 Regional Committee, Biometric Society ENAR
1978–1978 Co-program chair, Intl. Biometrics Society-ENAR Spring Meeting, Chapel Hill, NC
1976–1976 Local arrangements Committee 9th Intl. Biometric Conference, Boston, MA
1976–1986 Program Committee, Boston Chapter, ASA
Advisory

2022–2023  Advisory board of the HEARTS study in Bangladesh
2021–2023  National Academies’ Panel to Evaluate the Quality of the 2020 Census
2021— Data and Safety Monitoring Board, Acute to Chronic Pain Signatures (A2CPS) Program
2017— Chair, NIDDK DSMB for the ARMMS-T2D study (Alliance of Randomized Trials of Medicine vs Metabolic Surgery in Type 2 Diabetes)
2015— Technical Advisory Group, Developing Excellence in Leadership Training and Science Training, Sub-Saharan Africa Consortium for Advanced Biostatistics Training
2020–2021  American Statistical Assoc., 2020 Census Quality Indicators Task Force
2020–2021  Expert declaration and evaluations in support of case no. 20-CV-5799-LHK, U. S. District Court for the Northern District of California, San Jose Division: National Urban League, et al. v. Wilbur L. Ross, JR., et al.
2016–2021  DSMB, Minnesota Hearth Health Program–Aspirin Study
2015–2018  Scientific Advisory Board, NIEHS Gulf Long-term Follow-Up (GuLF) Study
2018— Tri-society (American Statistical Assn., American Sociological Assn., Population Assn. of America) group that prepared amicus briefs supporting the lawsuits in, New York, California, and the Supreme Court to block including a citizenship question on the 2020 census
2018— National Academies; National Investment Modeling expert Panel
2016— Panelist, FDA workshop on, Facilitating Antibacterial Drug Development for Patients with Unmet Need and Developing Antibacterial Drugs That Target a Single Species
2016— Chair, external advisory board of the Department of Public Health and Primary Care, Leuven, Belgium
2016— NAS/CNSTAT Expert meetings on Improving the Relevance of Federal Statistics
2016— NIDDK Expert Evaluation Committee of the Alliance of Randomized Trials of Medicine versus Metabolic Surgery in Type 2 Diabetes (ARMMS-T2D) study
2015–2016  Advisory Board, Center for Survey Statistics and Methodology, Iowa State U
2015–2016  PCORI/CTAP Post–Award Expert Advisory Subcommittee
2015— Health Effects Institute (HEI) ad hoc Review Panel
2015— Clinical Trial Review Panel, NIH/NIDCD, Deafness and Communication Disorders for trial design and analysis in anti-bacterial drug development
2014–2015  DSMB, Flexibility in Duty Hour Requirements for Surgical Training (FIRST) trial
2014— PCORI Methodology Consultation Review Panel
2014–2015  NIA-sponsored NAS meetings on observational studies and causal inference
Advisory (continued)
2013–2014 Panel on Hospital Performance Measure Testing, Mathematica
2012–2020 External Evaluation Committee, Type 1 Diabetes TrialNet
2012–2014 DSMB, Bangladesh Complementary Food Supplementation Trial
2012 Review of the University of Wisconsin, Biostatistics Training Grant Program
2011–2013 DSMB, Triple re-uptake inhibitor for the treatment of major depressive disorder (BMS)
2009–2013 External Expert Panel for the Hemodialysis Fistula Maturation Cohort Study
2007–2012 Board of Scientific Counselors, NIH-National Institute of Environmental Health Sciences
2006–2011 Scientific Advisory Committee, EPA/Harvard Center on Ambient Particle Health Effects
2004–2012 DSMB, Right Ventricular Pacing Study (Medtronic)
2011 Chair, Committee of Presidents of Statistical Societies, Committee on Methods for Hospital-specific estimates of quality of care
2011 Census Bureau, “Summer at Census” visiting scholar
2011 Ad hoc, Tenure Review Committee, Columbia University
2010–2011 ASA/NISS Panel on ranking graduate programs
2010–2011 EPA Science Advisory Board Panel to review draft lead dust technical analyses
2010 Nat. Inst. Statist. Sci., Workshop on Assessing the Quality of Graduate Programs
2010 Chair, Steering Committee, National Academies workshop on Facilitating Innovation in the Federal Statistical System
2006–2010 DSMB, MK-0518 HIV Integrase Phase III Program (Merck)
2009 Working Group, the role of the NIH Biostatistical Methods and Research Design study section
2009 Proposal review, International Science and Technology Center in the Ukraine
2008 NAS Review Coordinator, “Phthalates and Cumulative Risk Assessment: The Tasks Ahead”
2008 Consultant, U of Wisconsin chair search, Dept. of Biostatistics and Medical Informatics
2007–2009 DSMB, VA Trial of Long-Acting Injectable Risperidone in the Treatment of Schizophrenia
2007 Review Panel, Ixabepilone for treatment of metastatic breast cancer (Bristol, Myers, Squibb)
2006–2009 NAS Standing Committee on Risk Analysis Issues and Reviews
2006–2008 DSMB, Preventing Pregnancy Malaria: Mother Infant outcomes study (NIH-NIAID)
2005–2008 NAS Committee on Applied and Theoretical Statistics
2005 Selection Committee, JASA Applications and Coordinating Editor for 2007-9
2004–2006 NAS Committee to Review the Effects of Changes in EPA’s New Source Review Programs for Stationary Sources of Air Pollutants
2004 Ad hoc consultant, Board of Scientific Councilors review of the NIEHS Biostatistics Branch
2004 NIH Clinical Infectious Diseases and Microbiology, Research & Field Studies Special Study Section
2003–2004 Advisor, masters program in Biometrics, UMDNJ
2003–2004 Drinking Water Committee, EPA Science Advisory Board
2003 Input to IOM report, “Measuring What Matters: Allocation, Planning, and Quality Assessment for the Ryan White CARE Act”
2003 Review of the MS in Biostatistics, U of Medicine & Dentistry of NJ, SPH
2003 Committee to review Biostatistics at the U of Washington
2002–2004 NAS, Committee on use of third party toxicity research with human participants
2002–2003 Panel to review guidelines for thrombolysis treatment of acute ischemic stroke
2002 Chair, Committee to review Biostatistics at Emory U
2001–2008 DSMB, Dialysis Access Consortium (NIH-NIDDK)
2001–2002 NIH ad hoc group to promote increased funding for training in Biostatistics
Advisory (continued)

2001  Committee to propose a statistics editor for Science magazine
2001  Advisory Committee, Program in Environmental Statistics, Biostatistics, Harvard SPH
2001  Proposal reviewer, VA studies on Persian Gulf Illness
2000–2005 Health Effects Institute, Report Review Committee
2000–2004 Advisory Committee, Harvard Cardiac Vulnerability Related to Particulate Matter Project
2000–2004 Scientific Advisory Committee, EPA/Harvard Center on Ambient Particle Health Effects
2000–2003 Advisory Board, Center for Innovation in Clinical Research, M.D. Anderson CC
2000–2003 Steering Committee, United States Renal Data System
2000–2003 Diesel Emissions Project Committee, Health Effects Institute
2000–2002 Chair, NAS panel on Formula Allocation of Federal and State Program Funds
2000  Panelist, NIH Consensus Conference on Adjuvant Therapy for Breast Cancer
1999  Chair, Review Committee, Dept. of Social and Preventive Medicine, SUNY Buffalo
1998–2004 Chair, DSMB, Chemoprevention of Skin Cancers with DFMO Clinical Trial
1998  NIH Special Emphasis Panel Proposal Review
1997–1999 Oversight Committee, HEI, National Morbidity and Mortality Air Pollution Study
1997  Chair, NIAID proposal review panel, Statistical Center for the Women’s Interagency Health Study
1997  Advisory panel, U Chicago Dept. OB/GYN, issues in stopping a clinical trial
1997  Review of Columbia University Biostatistics
1997–2003 NAS, Committee on National Statistics
1996–2003 Advisory Board, Institute of Medicine (IOM), Medical Follow-up Agency
1996–1999 NAS, Panel on Estimates of Poverty for Small Geographic Areas
1996  Organizational Review, U of Chicago, Department of Health Studies
1995  NCI site visit, Fred Hutchinson Cancer Research Center, Seattle Washington
1995  UCLA Visiting Committee on reorganizing statistics at the university
1995  Visiting Committee, Cleveland Clinic Dept. of Epidemiology and Biostatistics
1994–1996 IOM/MFUA Committee to Review the Health Consequences of Service during the Persian Gulf War
1994-1995 Reviewer, EPA Particulate Matter and Mortality Criterion Document
1993–1997 DSMB, Long-term outcome of Obesity Treatment in Minority Women Study
1991  Reviewer, NIAID/DAIDS, ACTG re-competition
1988–1990 AHCPR Health Care Technology Study Section
1987–1993 Advisory Committee for Research Synthesis, The Russell Sage Foundation
1984–1988 EPA Health Effects Scientific Review Panel
1981–1983 Advisory Committee, Kidney Transplant and Histocompatibility Study
1975–1983 Site visitor, National Cancer Institute

UNIVERSITY SERVICE

Johns Hopkins University (Bloomberg School of Public Health unless otherwise indicated)

2022–2023 Biostatistics Chair Search Committee
2019–2020 Proposal review, Support for Creative Integrated Basic and Applied Research
2019–2020 Biostatistics Faculty Search Committee
2015–2016 Biostatistics Faculty Search Committee
2014  Committee member, Ross/Royall Fund for Population Inference in Public Health
2011–2012 Chair, Biostatistics Faculty Search Committee
2010–2011 Search Committee for Chair of Environmental Health Sciences
2009–2010 Committee to review the Department of Environmental Health Sciences
2008–2012 SPH Committee on Academic Standards
2008–2009 HopkinsOne, University-wide Faculty Advisory Committee
Johns Hopkins Service (continued)
2008–2009 Medical School Investigative Committee
2008–2009 Chair, Biostatistics Faculty Search Committee
2007–2008 Strategic Planning Steering Committee
2006–2011 Advisory Committee, Environmental Health Sciences, NIEHS Training Program
2005–2008 SPH Advisory Board
2005–2008 Faculty Senate: President-elect, President, past President
2004–2006 Sommer Scholar selection Committee
2004–2005 Chair, Faculty Grievance Committee
2003–2008 Committee on Appointments and Promotions
2003–2005 Faculty Senator
2003–2004 Planning Committee, FDA/Johns Hopkins workshop, “Can Bayesian approaches to studying new treatments improve regulatory decision-making?”
2002–2012 Steering Committee, Malaria Research Institute
2002–2004 FDA/Hopkins Liaison Development
2002–2004 Biostatistics Faculty Search Screening Committee
2002–2003 Co-chair, Biostatistics seminar Committee

University of Minnesota School of Public Health
2000 Dean Search Committee, School of Public Health
1999–2000 Ethics Advisory Committee
1998–1999 President’s Distinguished Faculty Mentors Program
1997–1998 Academic Health Center faculty research development grants review Committee
1996–1997 Search Committee, Health Sciences Chief Information Officer
1994–1998 SPH Diversity Committee
1994–1995 SPH Diversity Committee, Co-chair
1994–1995 Chair, MPH Major in Biostatistics
1994 Search Committee, Director, Cancer Center Registry
1994 Ad Hoc Committee to investigate misconduct
1993–1996 Faculty Advisor, Sailing Club
1992–1994 Chair, Search Committee, Head, Center for Environmental Health Policy, SPH
1992 Chair, Biostatistician Search Committee, General Clinical Research Center
1991 Search Committee, Population Sciences faculty, Humphrey Institute
1990–1999 SPH Space Committee
1990–1990 Search Committee, SPH Dean
1989–1990 Chair, Search Committee, Head of Epidemiology, SPH
1988–1993 Academic Advisory Committee, Center for Biomedical Ethics (chair, 1988-1990)
1987–2000 Advisory Committee, General Clinical Research Center
1987–1999 SPH Policy Council

Harvard School of Public Health
1980–1984 Qualifying examination Committee
1980–1981 Institutional Review Board
COMMUNITY SERVICE
2020–2022  Board of Governors, Miles River Yacht Club, St. Michaels MD
2018–     Docent, Chesapeake Bay Maritime Museum, St. Michaels MD
2017–     Martingham Architecture Review Committee, St. Michaels MD
1999–2000  Treasurer, Lake Harriet Yacht Club, Minneapolis MN
1995      Faculty Member, National Breast Cancer Coalition, Project LEAD
1992–1995  Institutional Review Board, Allina Health System, Minneapolis, MN
1984      Co-chair, School Enrollment Projection & Reorganization Committee, Lexington MA
1975–1978  Faculty, Norfolk Prison Education Program, Norfolk MA

EDUCATIONAL ACTIVITIES
Courses: Probability theory, Statistical theory, Sequential analysis, Analysis of longitudinal data,
Hierarchical models, Bayesian methods, Survey methods, Multivariate analysis, Discrete data,
Robust methods, Screening and bioassay, Exploratory data analysis.

Research Advising: Principal or co-advisor for Biostatistics doctoral and masters students.
Member of doctoral and masters Committees in Statistics, Biostatistics, Epidemiology,
Environmental Health, Health Services, and Microbiology.

Presentations & Short Courses: Over 500.

PUBLICATIONS
(Peer reviewed journal articles & books, Software, Peer reviewed journal discussions, Monographs,
Book chapters, Proceedings, Book reviews, Letters & Columns)

Peer reviewed journal articles & books
1. Flehinger BJ, Louis TA (1971). Sequential treatment allocation in clinical trials. *Biometrika*, 58: 419–426.
2. Flehinger BJ, Louis TA (1972). Sequential medical trials with data-dependent treatment allocation. *Proc. Sixth Berkeley Symposium*, 4: 43–52.
3. Flehinger BJ, Louis TA, Robbins H, Singer B (1972). Reducing the number of inferior treatments in clinical trials. *Proc. Nat. Acad. of Sci. US*, 69: 2993–94.
4. Hsi BP, Louis TA (1975). A modified play-the-winner rule for sequential trials. *J. Am. Statist. Assoc.*, 70: 644–647.
5. Louis TA (1975). Optimal allocation in sequential tests comparing the means of two Gaussian populations. *Biometrika*, 62: 359–369.
6. Louis TA (1977). Sequential allocation in clinical trials comparing two exponential survival curves. *Biometrics*, 33: 627–634.
7. Albert A, Gertman P, Louis TA (1978). Screening for the early detection of cancer I: The temporal natural history of a progressive disease state. *Mathematical Biosciences*, 40: 1-59.
8. Albert A, German P, Louis TA, Liu S (1978). Screening for the early detection of cancer II: The impact of screening on the natural history of disease. *Mathematical Biosciences*, 40: 61–109.
9. Louis TA, Albert A, Heghinian S (1978). Screening for the early detection of cancer III: Estimation of disease natural history. *Mathematical Biosciences*, 40: 111–144.
10. Louis TA (1981). Confidence intervals for a binomial parameter after observing no successes. *The American Statistician*, 35: 154.
11. Louis TA (1981). Nonparametric analysis of an accelerated failure time model. *Biometrika*, 68: 381–390.
12. Russell R et al. (1981). Unstable angina pectoris national cooperative study group to compare medical and surgical therapy IV: Results in patients with left anterior descending disease. *Am. J. Cardiology*, 48: 517–524.
13. Laird NM, Louis TA (1982). Approximate posterior distributions for incomplete data problems. *J. Roy. Statist. Soc. Ser. B*, 44: 190–200.

14. Louis TA (1982). Finding the observed information using the EM algorithm. *J. Roy. Statist. Soc. Ser. B*, 44: 226–233.

15. Louis TA, Mosteller FM, McPeek B (1982). Timely topics in statistical methods for clinical trials. *Ann. Rev. Biophys. & Bioeng.*, 11: 81–104.

16. Shapiro SH and Louis TA, eds. (1983). *Clinical Trials: Issues and Approaches*. Marcel Dekker, New York.

17. Louis TA, Shapiro SH (1983). Critical issues in the conduct and interpretation of clinical trials. *Ann. Rev. Public Health*, 4: 25–46.

18. Eisen EA, Wegman DE, Louis TA (1983). Effects of selection in a prospective study of forced expiratory volume in Vermont granite workers. *Am. Rev. Respir. Disease*, 128: 587–591.

19. Lavori P, Louis TA, Bailar JC, Polansky M (1983). Designs for clinical experiments: Parallel comparisons of treatment. *N. Engl. J. Med.*, 309: 1291–1298.

20. Louis TA (1983). Statistics in laboratory studies. *Lab Animal*, 12: 17–25.

21. Ware JH, Louis TA (1983). Statistical problems in environmental research. *Can. J. Statist.*, 11: 51–70.

22. Bailar JC, Louis TA, Lavori P, Polansky M (1984). Designs for clinical experiments: Studies without internal controls. *N. Engl. J. Med.*, 311: 156–162.

23. Eisen EA, Smith TA, Wegman DE, Louis TA, Froines J (1984). Estimation of long-term dust exposures in the Vermont granite sheds. *J. Am. Indus. Hygiene Assoc.*, 45: 89–94.

24. Louis TA (1984). Estimating a population of parameter values using Bayes and empirical Bayes methods. *J. Am. Statist. Assoc.*, 78: 393–398.

25. Louis TA, Lavori P, Bailar JC, Polansky M (1984). Crossover and self-controlled designs in clinical research. *N. Engl. J. Med.*, 310: 24–31.

26. Moses L, Louis TA (1984). Statistical consulting in clinical research: The two-way street. *Statist. in Med.*, 3: 1–5.

27. Bailar JC, Louis TA, Lavori P, Polansky M (1984). A classification for biomedical research reports. *N. Engl. J. Med.*, 311: 1482–1487.

28. Louis TA, Fineberg HV, Mosteller F (1985). Findings for public health from meta-analyses. *Ann. Rev. Pub. Health*, 6: 1–20.

29. Palmer RJ, Louis TA, Hsu LN, Peterson HF, Rothrock JK, Strain R, Thompson M, Wright EA (1985). A randomized controlled trial of quality assurance in sixteen ambulatory care practices. *Medical Care*, 23: 751–770.

30. Louis TA, Bouffion C, Tazaki H, Acosta-Otero A, Khoury S, Kopp J, Mazeman E, Obata K, Tagnon H, Wittes RE (1986). Policy on monitoring and reporting results. *Prog. Clin. Biol. Res.*, 221: 33-48.

31. Louis TA, Robins J, Dockery DW, Spiro R, Ware JH (1986). Explaining discrepancies between longitudinal and cross-sectional models. *J. Chron. Diseases*, 39: 831–839.

32. Laird NM, Louis TA (1987). Empirical Bayes confidence intervals based on bootstrap samples (with discussion). *J. Am. Statist. Assoc.*, 82: 739–757.

33. Louis TA (1988). General methods for analyzing repeated measures. *Statistics in Medicine*, 7: 29–45.

34. DeGruttola V, Ware JH, Louis TA (1987). Influence analysis on generalized least squares estimators. *J. Am. Statist. Assoc.*, 82: 911–917.

35. Knuiman MW, Laird NM, Louis TA (1987). Inter-laboratory variability in Ames assay results. *Mutation Research*, 180: 171–182.
36. Dockery DW, Speizer FF, Ferris BG Jr., Ware JH, Louis TA, Spiro A III (1988). Cumulative and reversible effects of lifetime smoking on simple tests of lung function in adults. *Am. Rev. Respir. Disease*, 137: 286–292.
37. Lagakos SW, Louis TA (1988). Use of tumor lethality to interpret carcinogenicity experiments lacking information on cause of death. *J. Roy. Statist. Soc. Ser. C*, 37: 169–179.
38. Manu P, Louis TA, Lane TJ, Gottlieb L, Engel P, Rippey RM (1988). Unfavourable outcomes of drug therapy: Subjective probability versus confidence intervals. *J. Clin. Pharm. and Therapeutics*, 13: 213–217.
39. Louis TA (1989). Analysis of a random sample of two-year carcinogen bioassays from the NCI data-base. *Fund. and Appl. Toxicology*, 12: 222–231.
40. Laird NM, Louis TA (1989). Bayes and empirical Bayes ranking methods. *J. Educational Statistics*, 14: 29–46.
41. Laird NM, Louis TA (1989). Empirical Bayes confidence intervals for a series of related experiments. *Biometrics*, 45: 481–495.
42. Berlin JA, Begg CB, Louis TA (1989). An assessment of publication bias using a sample of published clinical trials. *J. Am. Statist. Assoc.*, 84: 381–392.
43. Louis TA, Bailey JK (1990). Controlling error rates using prior information and marginal totals to select tumor sites. *J. Statistical Planning & Inference*, 24: 297–316.
44. Stryker WS, Stampfer MJ, Stein EA, Kaplan L, Louis TA, Sober A, Willett WC (1990). Diet, plasma levels of beta carotene and alpha tocopherol and risk of malignant melanoma. *Am. J. Epidemiology*, 131: 597–611.
45. Hall JA, Palmer RH, Orav EJ, Hargraves JL, Wright EA, Louis TA (1990). Performance quality, gender, and professional role: A study of physicians and non-physicians in 16 ambulatory care practices. *Medical Care*, 28: 489–501.
46. Ware JH, Dockery DW, Louis TA, Xu X, Ferris BG, Speizer FE (1990). Longitudinal and cross-sectional estimates of pulmonary function decline in never-smoking adults. *Am. J. Epidemiology*, 132: 685–700.
47. Laird NM, Louis TA (1991). Smoothing the non-parametric estimate of a prior distribution by roughening: An empirical study. *Comput. Statist. and Data Analysis*, 12: 27–38.
48. Louis TA (1991). Using empirical Bayes methods in Biopharmaceutical Research (with discussion). *Statistics in Medicine*, 10: 811–829.
49. Louis TA (1991). Assessing, accommodating, and interpreting the influences of heterogeneity. *Environmental Health Perspectives*, 90: 215–222.
50. Orav EJ, Louis TA, Palmer RH (1991). Variance components and their implications for statistical information in medical data. *Statistics in Medicine*, 10: 599–616.
51. Boult C, Kane RL, Louis TA, Ibrahim JG (1991). Forecasting the number of future disabled elderly using Markovian and mathematical models. *J. Clinical Epidemiol.*, 44: 973–98.
52. Anderson JE, Louis TA, Holm NV (1992). Time dependent association measures for bivariate survival distributions. *J. Am. Statist. Assoc.*, 87: 641–650.
53. Butler SM, Louis TA (1992). Random effects models with non-parametric priors. *Statistics in Medicine*, 11: 1981–2000.
54. Mangione TW, Fowler FJ Jr., Louis TA (1992). Question characteristics and interviewer effects. *J. Official Statistics*, 8: 293–307.
55. Cook TD, Cooper H, Cordray DS, Hartmann H, Hedges LV, Light RJ, Louis TA, Mosteller F, (eds.) (1992). *Meta-analysis for explanation: A casebook*. Russell Sage Foundation, New York.
56. Bostick RM, Potter JD, Fosdick L, Lampe J, Wood JR, Ganz MD, Louis TA, Grambsch P, Grandits G (1993). Calcium and colorectal epithelial cell proliferation: Results of a randomized double-blind placebo controlled clinical trial. *J. Nat'l. Cancer Inst.*, 85: 132-141.
57. Chaloner K, Church T, Louis TA, Matts JP (1993). Graphical elicitation of a prior distribution for a clinical trial. *The Statistician*, 42: 341-353.
58. Carlin BP, Chaloner K, Church T, Louis TA, Matts JP (1993). Bayesian approaches for monitoring clinical trials, with an application to toxoplastic encephalitis prophylaxis. *The Statistician*, 42: 355-367.
59. Louis TA (1993). Meta-analysis of Clinical Studies: The whole is greater than the sum of its parts. *Transfusion*, 33: 698-700.
60. Boult C, Kane RL, Louis TA, Boult L, McCarey D (1994). Chronic conditions that lead to functional limitation in the elderly. *J. of Gerontology: Medical Sciences*, 49: M28-M36.
61. Le C, Grambsch PM, Louis TA (1994). Association between survival time and ordinal covariates. *Biometrics*, 50: 213-219.
62. Devine OJ, Louis TA (1994). A constrained empirical Bayes estimator for incidence rates in areas with small populations. *Statistics in Med.*, 13: 1119-1133.
63. Grambsch P., Louis TA, Bostick R, Grandits G, Fosdick L, Darif M, Potter J (1994). Statistical Analysis of Proliferative Index Data in Clinical Trials. *Statistics in Medicine*, 13:1619-1634.
64. Devine OJ, Halloran ME, Louis TA (1994). Empirical Bayes Methods for stabilizing incidence rates prior to mapping. *Epidemiology*, 5: 622-630.
65. DeMets DL, Anbar D, Fairweather W, Louis TA, O’Neill RT (1994). Training the next generation of Biostatisticians. *The American Statistician*, 48: 280-284.
66. Melnick S, Sherer R, Louis TA, Hillman D, Rodrigues E, Lackman C, Capps L, Brown L, Carlyn M, Vermund S, Korvick J, Deyton B (1994). Survival and disease progression according to gender of patients with HIV infection: The Terry Beirn Community Programs for Clinical Research on AIDS. *J. Am. Medical Assoc.*, 272: 1915-1921.
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