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**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 (inactive)  
 American Statistical Association  
 Institute of Mathematical Statistics  
 International Biometric Society  
 International Statistical Institute  
 Royal Statistical Society

**Editorial**

- 1972- Refereeing for statistical, biomedical, epidemiologic and environmental journals  
 2011-2025 Editorial Committee, *Annual Review of Statistics and Its Application*  
 2017-2025, Associate Editor  
 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 & Other Service**

- 2024– Nominee Search Committee for the D. R. Cox Medal
- 2023– IBS/ENAR Committee to evaluate management options & prepare an RFI
- 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
- 2000-2001 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)
- 1997-1989 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**

- 2024-2023- Conrad Taeuber federal statistics discussion group  
Scientific Advisory Board, ASA/George Mason University project: Assessing the Health of the Principal Federal Statistical Agencies
- 2022-2023 Advisory board, 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
- 2017-2022 Chair, NIDDK DSMB for the ARMMS-T2D study (Alliance of Randomized Trials of Medicine vs Metabolic Surgery in Type 2 Diabetes)
- 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
- 2016-2021 DSMB, Minnesota Hearth Health Program-Aspirin Study
- 2015-2021 Technical Advisory Group, Developing Excellence in Leadership Training and Science Training, Sub-Saharan Africa Consortium for Advanced Biostatistics Training
- 2020 Chair, Visiting Panel, Joint Program in Survey Methodology, U Maryland & Michigan
- 2016-2020 International Advisory Board, Interuniversity Institute of Biostatistics and Statistical of Hasselt & Leuven, Belgium
- 1985-2020 Report Review, The National Academies
- 1975-2020 Proposal review, NSF, NIH and other funding agencies
- 2017-2020 Advisory Committee, U of Michigan Institute for Social Research, Educational Program on Responsive Survey Design for Efficient Survey Data Collection
- 2017-2020 DSMB, NHLBI; Junctional AV Ablation for Permanent Atrial Fibrillation in Patients Undergoing Cardiac Resynchronization Therapy
- 2016-2020 DSMB, Bristol-Myers Squibb; gastric, lung, and renal cancer trials
- 2015-2018 CMS Technical Expert Panel: Hospital Inpatient and Outpatient Process and Structural Measure Development and Maintenance
- 2019 Review coordinator, NAS workshop: Using Models to Estimate Hog and Pig Inventories
- 2019 Review of the Biostatistics Department, University of Miami
- 2011-2018 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

**Advisory** (continued)

- 2014 PCORI Methodology Consultation Review Panel
- 2014-2015 NIA-sponsored NAS meetings on observational studies and causal inference
- 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 AHCPH 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**

- 2018- Volunteer, Chesapeake Bay Maritime Museum, St. Michaels MD
- 2020-2023 Board of Governors, Miles River Yacht Club, St. Michaels MD
- 2017-2024 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.

**Talks & Short Courses:** Over 500 (visit <http://www.biostat.jhsph.edu/~tlouis/>)

**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, McPeck 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. Indust. 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, Bouffieux 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. Boulton 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.
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