

VITA
DAVID OAKES

Personal

Full Name: David Oakes

Nationality: Naturalized U.S. Citizen (born in UK).

Contact Information Department of Biostatistics and Computational Biology
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Employment

2002-present Professor, Department of Biostatistics and Computational Biology,
University of Rochester, Rochester, NY.

1995-2002 Professor and Chair, Department of Biostatistics,
University of Rochester, Rochester, NY.

1989-1995 Chair, Department of Statistics,
University of Rochester, Rochester, NY.

1987-1995 Professor of Statistics and Biostatistics,
University of Rochester, Rochester, NY.

1983-1987 Associate Professor of Statistics and Biostatistics,
University of Rochester, Rochester, NY.

1977-1983 Senior Lecturer in Occupational Health Sciences,
TUC Centenary Institute of Occupational Health,
London School of Hygiene and Tropical Medicine.

1972-1977 Assistant Professor of Statistics, Harvard University.

1970 Research Assistant, Imperial College, London.

1969-1970 Research Associate, Lancaster University, UK.

Education

1970-1972	Imperial College, London University
1965-1969	Trinity College Cambridge (Open scholar, Wrangler)
1957- 1964	Manchester Grammar School

Degrees

1972	Ph.D. (London)
1969	Diploma in Mathematical Statistics (Cambridge)
1968	B.A. (Cambridge) M.A. 1972

Honors

1991-1994	Elected to Regional Committee, Biometric Society (ENAR)
1993	Elected Fellow, American Statistical Association
1994	Elected Member, International Statistical Institute
2002	Member Spiegelman Award Committee
2003	Listed, "Who's Who in America"
2003	Listed, "American Men and Women of Science"

Doctoral Dissertation

"Semi-Markov representations of some stochastic point processes". Written under the direction of Professor Sir David Cox, F.R.S. at Imperial College, London.

Publications (articles and books)

Oakes, D. Discussion of paper by D.R. Cox "Regression Models and Life-Tables". Journal of the Royal Statistical Society (Series B) 34, 20 (1972).

Daley, D.J. and Oakes, D. Random walk point processes. Zeitschrift fur Wahrscheinlichkeitstheorie und verwandte Gebiete 30, 1-16, (1974).

- Hawkes, A.G. and Oakes, D. A cluster process representation of self-exciting process. Journal of Applied Probability 11, 493-503, (1974).
- Oakes, D. A generalization of Moran's quasi-Poisson process. Studia Scientiarum Mathematicarum Hungarica 9, 433-437, (1974).
- Oakes, D. Synchronous and asynchronous distributions for Poisson cluster processes. Journal of the Royal Statistical Society (Series B) 37, 238-247, (1975).
- Oakes, D. The Markovian self-exciting process. Journal of Applied Probability 12, 69-77, (1975).
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- Oakes, D. Random overlapping intervals – A generalization of Erlang's loss formula. Annals of Probability 4, 940-946, (1976).
- Oakes, D. Stochastic backtrackings. Stochastic Processes and their Applications 6, 95-111, (1977).
- Oakes, D. The asymptotic information in censored survival data. Biometrika 64, 441-448, (1977).
- Oakes, D. Matched pairs in independent Poisson processes. Journal of Applied Probability 16, 780-793, (1979).
- Oakes, D. On log-linear hazards. Journal of the Royal Statistical Society (Series B) 41, 274-275, (1979).
- Anderson, S., Auquier, A., Hauck, W.W., Oakes, D., Vandaele, W. and Weisberg, H. Statistical Methods for Comparative Studies, Wiley, New York, (1980).
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- Wall, L.M., Oakes, D. and Rycroft, R.J.G. Virus warts in meat handlers. Contact Dermatitis 7, 259-267, (1981).
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- Oakes, D. Survival times: aspects of partial likelihood (with discussion). International Statistical Review 49, 235-264, (1981).
- Armstrong, B.G. and Oakes, D. Effects of approximation in exposure assessments on estimated exposure-response relationships. Scandinavian Journal of Work, Environment and Health, Supplement 1, 20-23, (1982).

- Oakes, D. and McDonald, J.C. Restricted cohort study designs. Scandinavian Journal of Work, Environment and Health. Supplement 1, 30-33, (1982).
- Fawer, R.F., Ward Gardner, A. and Oakes, D. Absence attributed to respiratory disease in welders. British Journal of Industrial Medicine 39, 149-152, (1982).
- Oakes, D. A coefficient of concordance for censored data. Biometrics 38, 451-455, (1982).
- Oakes, D., Douglas, R., Knight, K., Wusteman, M. and McDonald, J.C. Respiratory effects of prolonged exposure to gypsum dust. Inhaled Particles (Annals of Occupational Hygiene) 26, 833-840, (1982).
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- Oakes, D. Invited review. Survival analysis. European Journal of Operational Research 12, 3-14, (1983).
- Oakes, D. Comparison of models for survival data. Statistics in Medicine 2, 305-311, (1983).
- Oakes, D. Statistical Viewpoint, In Cherry N. and Waldron H.A. (Eds.) The Neuropsychological Effects of Solvent Exposure – The Colt Foundation, Havant, 160-162, (1983).
- Oakes, D. Comment on “A reanalysis of the Stanford Heart Transplant Data”, by M. Aitkin, N. Laird and B. Francis, Journal of the American Statistical Association 78, 264, (1983).
- Harrington, J.M. and Oakes, D. Mortality study of British pathologists. British Journal of Industrial Medicine 41, 189-191, (1984).
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- Oakes, D. An approximate likelihood procedure for censored data. Biometrics 42, 177-182, (1986).
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- Gabriel, K.R., Oakes, D. and Odoroff, C.L. A Master of Science Program in Medical Statistics at the University of Rochester. American Statistical Association, Proceedings of the Section on Statistical Education, 24-26, (1986).
- Oakes, D. Semi-parametric models. In Kotz, S. and Johnson, N.L. (Eds.) Encyclopedia of Statistical Sciences, Volume 8, Wiley, New York, 367-369, (1987).
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- Newhouse, M.L., Matthews, G., Sheikh, K., Knight, K.L., Oakes, D. and Sullivan, K.R. Mortality of workers at acetylene production plants. British Journal of Industrial Medicine 45, 63-69, (1988).
- Reichman, R.C., Stoler, M.H. and Oakes, D. Human papillomaviruses and treatment of condyloma acuminatum with intralesionally administered interferon. In Norrby, S.R. (Ed.) New Antiviral Strategies, Edinburgh, Churchill Livingstone, pp. 36-49. (1988).
- The Multi-Center Diltiazem Post-infarction Trial Research Group. (D. Oakes, biostatistician). The effect of Diltiazem on mortality and reinfarction after myocardial infarction. New England Journal of Medicine 319, 385-392, (1988).
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- Moss, A.J., Oakes, D., Benhorin, J., Carleen, E. and the Multicenter Diltiazem Postinfarction Research Group. The interaction between diltiazem and left ventricular function after myocardial infarction. Circulation 80 Supp (IV) IV 102-IV 106, (1989).
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- Parkinson Study Group. (D. Oakes, Chief Biostatistician). Impact of deprenyl and tocopherol treatment on Parkinson's disease in DATATOP patients not requiring levodopa. Annals of Neurology 39, 29-36, (1996).
- Parkinson Study Group. (D. Oakes, Chief Biostatistician). Impact of deprenyl and tocopherol treatment on Parkinson's disease in DATATOP subjects requiring levodopa. Annals of Neurology 39, 37-45, (1996).
- Manatunga, A.K. and Oakes, D. A measure of association for bivariate frailty distributions. Journal of Multivariate Analysis 56, 60-74, (1996).
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- Kolassa, J.E. and Oakes, D. (eds.) Crossing Boundaries: Statistical Essays in Honor of Jack Hall. Institute of Mathematical Statistics Lecture Notes, Monographs Series # 43, (2003).
- Oakes, D. and Dasu, T. Statistical inference for the proportional mean residual life model. In Kolassa, J. E. and Oakes, D. *op. cit.*.pp. 105-116 (2003).

Brooks, D.J., Frey, K.A., Marek, K.L., Oakes, D, Paty, D., Prentice, R., Shults, C.W. and Stoessl, A.J. Assessment of neuroimaging techniques as biomarkers of the progression of Parkinson's disease. Experimental Neurology, 184, S68-S79 (2003).

Oakes, D. On characterizing joint survivor function by minima. In Lin, D.Y. (Ed.). Proceedings of the Second Seattle Symposium in Biostatistics. Springer, New York, (2003, in press).

Doctoral Dissertations Directed

Benedict G. Armstrong: Effects of measurement error on exposure response relationships estimated from epidemiological studies: An appraisal with respect to lung cancer in a cohort of asbestos workers. University of London, May 1983. (Dr. Armstrong is now Senior Lecturer, London School of Hygiene and Tropical Medicine).

Amita K. Manatunga: Inference for multivariate survival distributions generated by stable frailties. University of Rochester, December 1989. (Dr. Manatunga is now Associate Professor, Department of Biostatistics, Emory University).

Tamraparni Dasu: The proportional mean residual life model. University of Rochester, November 1990. (Dr. Dasu is now a Principal Technical Staff Member, ATT Laboratories).

Lu Cui: Semiparametric inference for modulated renewal processes. University of Rochester, May 1994. (Dr. Cui is now Statistician, Aventis Pharmaceuticals).

Jong-Hyeon Jeong: Some new applications of frailty models, July 1996. (Dr. Jeong is now Assistant Professor, University of Pittsburgh).

John Ritz: Combining within and between pair information in a Cox frailty model, July 1998. (Dr. Ritz is now Postdoctoral Fellow, Harvard University).

Changyong Feng: Combining stratified and unstratified log-rank tests for correlated survival data, August 2002 (Dr Feng is now Research Assistant Professor, University of Rochester).

Antai Wang: Parameter estimation in bivariate copula models, August 2002. (Dr Wang is now Assistant Professor, Georgetown University).

Research Support (as PI)

Principal Investigator: USPHS RO1 CA52572. "Statistical analysis of multiple event time data". 07/01/90-03/31/00.

Principal Investigator: USPHS RO1 CA61087. "Statistical software for frailty models in epidemiology". 08/01/93-07/31/97.

Co-Principal Investigator (with W.J. Hall): NSF-DMS-9003693. "Topics in semiparametric inference, with special reference to survival analysis"

Current Active Research Support

EPA R827354 (G. Oberdorster, PI). Ultrafine Particles: Characterization, Health Effects and Pathophysiologic Mechanisms. 7/1/99-6/30/04.

P30 ES01247 (T. Gasciewicz, PI). Environmental Agents as Modulators of Disease Processes (Center Grant). 4/1/00-3/31/05.

5 R01 HL 48259 (A.J. Moss, PI). Thrombogenic Factors and Recurrent Cardiac Events. 7/1/01-5/31-04.

DAMD 17-01-1-0786 (K. Marek, PI). Long Term Dopamine Transporter Imaging of Parkinson's disease progression. 11/1/01-10/31/04.

1 R01 HG02449 (J. Paulsen, PI). Neurologic Predictors of Huntington's Disease Onset -PREDICT HD. 9/01/01-8/31/05.

1 R01 HG02449. (I. Shoulson, PI). Prospective Huntington's at Risk Observational Study -PHAROS. 9/30/02-6/30/07.

1U54NS45309. (H. Federoff, PI). Parkinson's Disease Gene Therapy Study Group. 9/30/02-8/31/07.

R01 NS40467. (C. Tanner, PI). Twins and risk of PD: A Clinical and Imaging Investigation. 9/30/00-8/31/05.

Training Grants

Principal Investigator: NIEHS T32 ESO7271-02. "Training in environmental health biostatistics". 05/01/92-06/30/04 (Total direct costs awarded: \$562,694).

Principal Investigator: NCI IT32 CA09667-02. "Training in cancer biostatistics". 09/01/91-06/30/04 (Total direct costs awarded: \$294,548).

Co-Director: NINDS. "Experimental therapeutics of neurological disease". R. Griggs, P.I.

Study Sections

1988

Ad Hoc Reviewer, NINCDS Study Section

1989	Ad Hoc Consultant, NIA Study Section
1993	NIH Special Study Section SSSI-08 SOH Special Study Section SOH-AHR-S1
1997	NIH Special Study Section ZRC 7 (February) NIH Special Study Section ZRC 7 (October) NIEHS EHS Review Committee (Training Grants) (November)
1998	NIH Special Study Section ZRC 7 (October)
1999	NIH Study Section SNEM5 (July, October)
2000	NIH Study Section SNEM5 (February)
2001	NIH Study Section SNEM5 (March, June, October)
2002	NIH Study Section SNEM5 (February, October)
2003	NIH Study Section SNEM5/BMRD (February, June, October)
2004	NIH Study Section BMRD (February)

Steering Committees, Working Groups

1974-1976	Harvard University Faculty Seminar on Human Experimentation in Health and Medicine, Co-chairman, Observational Studies Group.
1983	British Occupational Hygiene Society, Technology Subcommittee on Fugitive Emissions.
1987-1989	Baclofen as Preventive Therapy in Huntington's Disease Trial (BAPTHD), Steering Committee.
1987-1992	Multicenter Diltiazem Postinfarction Trial (MDPIT), Co-chairman, Biostatistics Committee.
1987-Present	Deprenyl and Tocopherol Antioxidative Therapy of Parkinsonism (DATATOP) Trial, Steering Committee.
1992-1994	Safety and Tolerability of RO19-6237 Therapy in Untreated Parkinson's Disease (STARTUP) Trial, Steering Committee.
1994-1997	Multicenter Automatic Defibrillator Implantation Trial (MADIT) Monitoring Committee.

1994-Present	Riluzole in Huntington's Disease (RID-HD), Steering Committee.
1994-Present	Appointed Member of the Executive Committee and Director of the Biostatistics Center, Parkinson Study Group.
1994-1997	Investigation of Tolerability in a Randomized Trial of OPC-14117 in Huntington's Disease (INTROHD), Steering Committee.
1995-Present	Pramipexole in Minorities Efficacy (PRIME) Trial of Parkinson's Disease, Steering Committee.
1995-Present	Sensitivity and Specificity of Dopascan Injection for Diagnosis of Parkinsonism, Steering Committee.
1995-1999	Psychosis and Clozapine in Parkinson's Disease (PSYCLOPS), Steering Committee.
1995-Present	Early v. Late Levodopa in Parkinson's Disease (ELLDOPA), Steering Committee.
1995-Present	CoQ in Early Parkinson's Disease, Steering Committee.
1995-Present	Thrombogenic Factors and Recurrent Cardiac Events, Co-Investigator
1996-2002	Tolerability and Efficacy of SIB-1508Y Therapy in PD (TEST), Steering Committee.
1996-Present	Parkinson Research, the Organized Genetic Initiative (PROGENI), Steering Committee.
1996-Present	TVP1012 as Monotherapy in Parkinson's (TEMPO), Steering Committee.
1996-Present	Appointed Member of the Executive Committee and Director of the Biostatistics Center, Huntington Study Group.
1996-2002	Infant Feeding and Nutrition Trial (INFANT), Co-Investigator.
1997-Present	Rasagiline as Adjunctive Therapy Trial with Levodopa in PD (PRESTO) Steering Committee.
1997-2002	Chair, Safety Monitoring Committee. Multicenter Implantable Defibrillator Studies ("MADIT").
2003-2005.	Member, Independent Data Monitoring Board. SAINT I and SAINT II studies of "Cerovive" in Acute Ischemic Stroke.

Consultancies

1985	Institut de Recherche en Sante et en Securite du Travail du Quebec
1991-1992	Boehringer-Ingelheim, Inc.
1997	Praecis Pharmaceuticals
1997	Genzyme
1999	Roswell Park Cancer Institute
2000	Center for Disease Control and Prevention
2001	Roswell Park Cancer Institute
2001	Neotherapeutics Inc.
2002	Kinetics Foundation
2003	Acadia Pharmaceuticals Inc.
2003	External Examiner, Doctoral Dissertation of Christian Pipper, Royal Veterinary and Agricultural University, Fredericksberg, Denmark.

Editorial Work

1975-1979	Reviewer, Mathematical Reviews
1977-Present	Referee for all major journals in statistics and biostatistics and many medical journals.
1979-Present	Associate Editor, Biometrika (I am now the longest-serving Associate Editor)
1992-Present	Reviewer, book proposals for Oxford U.P., Wiley, Chapman and Hall, Springer, Kluwer
1996-2000	Associate Editor, Lifetime Data Analysis
2000-Present	Editor (1 of 3) Lifetime Data Analysis

Short Courses, Lectures, Professional Meetings (partial list)

- 1979 Joint Lecturer (with Professor D. R. Cox) at a special one-day instructional conference on survival analysis, organized by the Royal Statistical Society.
- 1981 Joint Lecturer at a short course organized by the American Statistical Association and based on the book "Statistical Methods in Comparative Studies".
- 1983-1989 Principal Lecturer. Biennial Short Course in Biometry in Occupational Health. Nordic Institute of Advanced Occupation Environment Studies. Institute of Occupational Health, Helsinki, Finland.
- 1984 Joint Presenter (with Professor D.R. Cox) of a short course on "Analysis of Survival Data" at the Annual Meetings of the American Association, Philadelphia, Pennsylvania.
- 1985 Invited Speaker. SIMS conference on statistical methods in chronic disease epidemiology. Alta, Utah, June 24-28.
- 1986 Invited Speaker. Symposium on survival analysis, University of Washington, Seattle, Washington July 23.
- 1986 Narrator. Short course on the analysis of survival data, Washington, D.C., October 28-29.
- 1987 Invited Speaker. NSF/AMA conference on statistical inference for stochastic processes, Cornell, New York, August 6-10.
- 1991 Invited Speaker. NATO workshop on survival analysis and related topics, Ohio State University, June 23-28.
- 1992 Lecturer. Two-day course on Analysis of Survival Data. Center for Disease Control, Atlanta, Georgia, February 6-7.
- 1993 Invited Speaker. Lukacs Memorial Symposium, Bowling Green University, Toledo, Ohio, March 26.
- 1993 Invited Speaker. Northern New Jersey Chapter of the American Statistical Association, April 15.
- 1993 Colloquium Speaker. Memorial Sloan Kettering Cancer Institute, September 15.
- 1994 Colloquium Speaker. Laval University, Quebec, March 24.

- 1994 Invited Speaker. ENAR Regional Meeting, Cleveland, Ohio, April 13.
- 1994 Lecturer. Statistical Methods in Occupational Health NIVA, Helsinki, Finland, June 13-17.
- 1994 Invited Speaker. International Biometric Society, Hamilton, Ontario, August 11.
- 1994 Invited Speaker (with J. L. Pater, P. Meier, and D. R. Cox). "Statistics and Medicine Afternoon", Queen's University, Kingston, Ontario, October 3.
- 1995 Invited Speaker. Lukacs Memorial Symposium, Bowling Green University, Toledo, Ohio, March 24.
- 1995 Colloquium presentation, Columbia University, New York, April 15.
- 1995 Session Chair. Symposium on Multivariate Survival Data, Harvard School of Public Health, May.
- 1995 Invited Speaker. Symposium on Survival Analysis, University of Washington, Seattle, November 16.
- 1996 Session Organizer and Invited Speaker. Joint IMS/ENAR Meeting, Richmond, Virginia, March 16. Session Chair, March 17.
- 1996 Invited Speaker. Statistical Society of Canada. Summer meeting, Waterloo, June 1-3.
- 1996 Session Organizer and Chair, Joint Statistical Meetings, Chicago, Illinois, August 8-11.
- 1998 Speaker. 50th Anniversary Conference, Biometric Society, British Region.
- 1998 Invited Speaker. Workshop on Event History Analysis, Montreal, May 25-29.
- 1999 Speaker. ENAR meeting, Atlanta, Georgia, March 31.
- 1999 Speaker. Society for Clinical Trials Meeting. Anaheim, California, May 3.
- 1999 Speaker. Joint Statistical Meetings, Baltimore, Maryland, August 11.
- 2000 Sole Presenter. Short Course on Frailty Models, Harvard School of Public Health, January 25.
- 2000 Invited Speaker. ENAR Meeting, Chicago, Illinois, March 20.

- 2000 Invited Speaker. Second Seattle Symposium on Biostatistics, November.
- 2001 Speaker. ENAR Meeting, Charlotte, March 26.
- 2001 Invited Speaker. ASMDA Conference, Compiègne, June.
- 2001 Invited Speaker. Fourth Canadian Conference in Applied Statistics, Montreal, July.
2002. Invited Speaker. Food and Drug Administration, January 22.
- 2002 Invited Speaker, Third Winemiller Symposium on Statistical Applications, University of Missouri, Columbia, Mo, April 5.
- 2002 Invited Participant. Workshop on Imaging Markers in Parkinson's Disease Denver, April 15.
- 2002 Colloquium Speaker, Columbia University, NYC, May 9.
- 2003 Invited Speaker and Session Organizer. International Conference on Reliability and Survival Analysis, Columbia, Mo, May 21-24.
- 2003 External examiner. Doctoral dissertation of C.B. Phipper. Royal Veterinary and Agricultural University, Copenhagen, November 22, 2003.
- 2004 Invited Speaker, Conference on Dependence Modeling, Statistical Theory and Applications in Finance and Insurance. Laval University, Quebec, May 20-22.
- 2004 Invited Speaker and Discussant, Joint Statistical Meetings, Toronto, August.

December 2003