

JONATHAN BERKOWITZ

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EDUCATION

<i>Doctor of Philosophy, Statistics</i> , University of Toronto	1984
Ontario Graduate Scholarship, Government of Ontario, 1980-83	
<i>Master of Science, Statistics</i> , University of Alberta	1979
<i>Bachelor of Science, First Class Honours in Applied Mathematics</i> , University of Alberta	1976
Queen Elizabeth Scholarship, Government of Alberta, 1976	

PROFESSIONAL ACTIVITIES

OVERVIEW OF PROFESSIONAL EXPERIENCE

My career combines a consulting practice in applied statistics with a university academic teaching appointment. I have a PhD in Statistics from the University of Toronto. I have been in private practice as a consulting statistician since 1987 and am a Full-Time Instructor in the Sauder School of Business at the University of British Columbia. I am also currently an Associate Member (and past Clinical Associate Professor) in the Faculty of Medicine, also at the University of British Columbia.

I have served as research consultant to several academic and private sector research groups, providing assistance in research design, data analysis, technical writing, and continuing education. I lecture widely and am an award-winning teacher in graduate and undergraduate programs in business and in health care. As a “user-friendly” statistician, I have participated in over 1000 projects in a wide range of collaborative and interdisciplinary research in health care and medicine, social sciences, engineering and biotechnology, management consulting, and law. I have contributed to numerous successful research grant applications and co-written and edited many peer-reviewed publications. I have helped nearly 100 graduate students complete their degrees.

CURRENT EMPLOYMENT

<i>President, Berkowitz & Associates Consulting Inc., Vancouver, British Columbia</i>	From 1987
○ Consulting Statistician	
<i>Faculty Member, Sauder School of Business, University of British Columbia</i>	From 1988
○ Full-Time Instructor (2011-present)	
○ Adjunct Professor (1994-2011)	
○ Sessional Lecturer (1988-1993)	
<i>Faculty Member, Department of Family Practice, Faculty of Medicine, University of British Columbia</i>	From 1990
○ Associate Member (2011-present)	
○ Clinical Associate Professor (2002-2011)	
○ Clinical Assistant Professor (1994-2001)	
○ Clinical Instructor (1990-1993)	

PAST EMPLOYMENT

<i>Faculty Associate</i> Institute of Health Promotion Research, University of British Columbia	1993 – 1998
<i>Director, Statistical Consulting and Research Laboratory</i> Department of Statistics, University of British Columbia	1986 – 1988
<i>Assistant Professor</i> Department of Statistics, University of British Columbia	1985 – 1988
<i>Teaching Postdoctoral Fellow</i> Department of Statistics, University of British Columbia	1984 – 1985
<i>Postdoctoral Fellow</i> Department of Mathematics and Statistics, Simon Fraser University	1983 – 1984

CONSULTING EXPERIENCE

My consulting practice spans the gamut of quantitative inquiry. I have provided expertise in the design and reporting of surveys, experiments, program evaluations, and critical appraisals of all types. I have carried out data analysis and statistical modelling on small data sets, and multi-thousand record databases, and everything between. The following is a description of a representative sample of my activities.

Medical and Health Care Research and Evaluation

Department of Family Practice, University of British Columbia

- I have served as research consultant since 1990. I have assisted over 400 residents to complete their residencies in family practice. I provide consultation to numerous faculty members and practice-based family practice researchers, leading in many cases to peer-reviewed publications in medical literature.

UBC Faculty of Medicine, Vancouver General Hospital, St. Paul's Hospital, BC Children's and Women's Hospital, G.F. Strong Rehabilitation Centre, and related health care organizations

- Collaborations with medical researchers leading to advancement about and transfer of knowledge across the spectrum of medical specialties including: Hematology, Ophthalmology, Urology, Infectious Diseases, Neurology, Anaesthesiology, Orthopaedics, Obstetrics/Gynaecology, Orthopaedics, Respiriology, Radiology, Emergency Medicine, Pharmaceutical Sciences, Spinal Cord Research, Psychology, Physical Therapy, Occupational Therapy, Nursing, and others.

Provincial Surgical Services Project, Provincial Health Services Authority, BC

- As part of the creation and development of a province-wide “live” surgical patient registry, I carried out validity and reliability data analysis of clinical assessment tools to be used by surgeons regarding decision for surgery.

WorkSafe BC

- Led the data analysis and statistical modelling of major studies of predictors of return-to-work of workers following low-back injuries, and subsequent studies evaluating interventions to promote early return-to-work.

Faculty of Dentistry, University of British Columbia

- Collaborated in the design, analysis and reporting of large-scale and small-scale community dental health studies, including effects of defluoridation and problems of over-fluoridation.

The Arthritis Society of BC and Yukon Division

- Served as research consultant and provided continuing statistical education for three years to stimulate research among allied health professionals (physical and occupational therapy, nursing, social work, education) and medical staff.

Faculty of Pharmaceutical Sciences, University of British Columbia

- Carried out data analysis and wrote journal articles to evaluate patient satisfaction with pharmaceutical care activities delivered at community pharmacies. Contributed to various grant-funded basic science research projects.

Social Sciences Research and Evaluation, Corporate Culture Studies

Canadian National Child Care Study, U. of British Columbia, U. of Victoria, U. of Manitoba, U. of Guelph, and Statistics Canada

- Served as senior data analyst for a major four-university research project in collaboration with Statistics Canada that provided reports to assist in developing public policy on child care.

Lower Mainland Hospitals Cultural Diversity Surveys

- Carried out survey design, analysis and reporting of cultural diversity across Lower Mainland hospitals, including St. Paul's Hospital, Surrey Memorial Hospital, Mount St. Joseph Hospital and seven others.

BC Health Care Benefit Trust

- Collaborated on multiple employee health and wellness surveys, and ergonomics studies to improve health of workers across the health care sector.

Program Evaluation and Corporate Culture Surveys (Various)

- Design and analyzed workplace studies and program evaluations with Wilson Banwell & Associates Ltd, Newton and Company, Paula Boddie and Associates, Treena Chomik Consulting, CS RESORS Consulting and others. Organizations studies include: Vancouver Port Corporation, St. Paul's Hospital, UBC Land and Building Services, Canadian Cancer Society, and many others.

Ministry of Advanced Education, Government of BC

- Developed statistical models as part of a review of the provincial funding formula for community colleges and institutes of technology.

Advanced Education Council of BC

- Carried out data analysis and wrote reports to evaluate provincial programs providing Adult Basic Education and English as a Second Language education.

Litigation Support

Various Law Firms in British Columbia, Alberta, and Ontario

- Provided expert statistical opinion for many cases involving billing audits of medical practitioners in British Columbia and Alberta.
- Provided sampling methodology and expert opinion for an Ontario class action case.
- Carried out critical appraisal of scientific and medical journal articles for various legal cases.
- Provided statistical analysis of log-scaling practices in forest industry legal cases.
- Carried out critical appraisal of literature on no-fault insurance for ICBC.

Science, Engineering and Technology

Quorum Consulting Group, and Transport Canada, Government of Canada

- Designed sampling methodology in Review of Canadian Freight Rail system as part of improvements to the Canada Transportation Act. Guided statistical analysis of analysis of rail transit time and car supply performance.

YVR (Vancouver Airport Authority)

- Developed statistical models to predict energy demand and consumption at the Vancouver International Airport.

LightIntegra Technology, Vancouver BC

- Provided experimental design and statistical analysis for development and clinical testing of new medical device to test blood platelet quality for transplant patients.

Generation II Orthotics, Richmond BC

- Designed and analyzed clinical trial of new orthotic knee brace to allow return to daily activities and participation in sports.

BC Research Inc., Vancouver, BC

- Advised on experimental design and carried out data analysis of various studies for the Forest Biotechnology Group and for the Occupational Health Group.

TEACHING ACTIVITIES

University Undergraduate Teaching:

- Sauder School of Business, University of British Columbia
 - Bachelor of Commerce
 - Introductory business statistics 1992 – 1993, 1998 – Present
 - Upper-level second course in business statistics 1996 – 2000

University Graduate Teaching:

- Sauder School of Business, University of British Columbia
 - Master of Management (MM) Classic and Dual Degree programs 2009, 2013 – Present
 - Full-time MBA program 1989 – 1991, 1994 – 2012
 - Part-time MBA program 2004 – 2012
 - International MBA program 2002 – 2012
 - Executive MBA Program 2008 – 2013
 - Business statistics, statistical inference and modelling
- School of Population and Public Health, University of British Columbia
 - Masters of Health Administration (MHA) program 2002 – 2020
 - Statistics for management
- Faculty of Applied Science, University of British Columbia 2006 – 2008
 - Biomedical Engineering Program
 - Clinical practice of biomedical engineering

Notable University Teaching Awards:

- Killam Prize for Undergraduate Teaching, University of British Columbia 2005 – 2006
- CGA Graduate Master Teacher Award, University of British Columbia 2002 – 2003
- UBC Commerce Graduate Student Society: Teaching Excellence Award 1995 – 1996
- UBC Commerce Undergraduate Society: Teaching Excellence Award 1997 – 1998
- UBC Sauder MBA: Teaching Excellence Award 2006
- UBC Sauder MBA: Certificate of Outstanding Commitment to Teaching 2002

Other Teaching: Workshops, Short Courses, Seminars:

- BC Children’s Hospital Neonatology Division – Introductory Statistics
- BC Patient Safety and Quality Council – Risk-Adjusted Modelling / SPC Charts (multiple presentations)
- Pearson Education Canada – Increasing Student Engagement in the Classroom
- Vancouver Island Health Authority – Introduction to Statistics
- Population Data BC – Introduction to Statistics
- BC Rural and Remote Health Research Network – Summer Workshops
- BC Children’s Hospital – Short Course on Statistics for Residents and Fellows
- YVR Strategic Planning – Introduction to Regression Modeling
- Ballard Power Systems/AFCC – Principles & Practice of Statistics, Design of Experiments
- Simon Fraser Univ. Continuing Studies: Research Skills for Health Care Professionals
- Greater Victoria Hospital Society – Principles and Practice of Statistics

- Arthritis Society, BC/Yukon Division – Research Design, Data Analysis, Critical Appraisal
- QLT PhotoTherapeutics – Principles of Applied Statistics
- Price Waterhouse – Statistical Forecasting Techniques
- BC Hydro PowerSmart – Statistical Methods in Program Evaluation

Other Professional Activities:

- Regular contributor to CBC Radio (North by Northwest) as The Puzzling Professor and The Word Guy, from Sep. 2015 – present
- Organizer and local host, annual convention of The National Puzzlers’ League July 2002 & July 2015
- Member, Statistical Education Committee, Statistical Society of Canada 2010 – 2012
- Puzzle Editor, CHANCE Magazine, American Statistical Association 2008 – 2013
- Member, Health Services Research Subcommittee, BC Health Research Foundation 1987 – 1991

Professional Membership:

- American Statistical Association
- Institute of Mathematical Statistics
- Statistical Society of Canada

COMMUNITY INVOLVEMENT AND VOLUNTEER ACTIVITIES

Communal Service Highlights

- President, Jewish Federation of Greater Vancouver 1997 – 1999
- General Chair, Combined Jewish Appeal 1997
- President, Congregation Beth Israel Synagogue 2003 – 2005
- Vice-President, Vancouver Talmud Torah 1999 – 2002
- Board Member, Jewish Federations Canada-United Israel Appeal 2013 – 2019
- Member, Wexner Foundation Alumni Council 2016 – 2019
- Board Member, Vancouver Symphony Society 2020-present

Communal Awards and Honours

- Jewish Federation of Greater Vancouver
 - Arthur Fouks Leadership Award 2002
 - Honorary Life Director 2001
 - United Israel Appeal/Federations Canada Certificate of Merit 1999
 - United Israel Appeal/Keren Hayesod Yakir Award 1998
 - Young Leadership Award 1995
 - Outstanding Leadership and Service Award 1991
- Wexner Heritage Foundation Program Graduate 2000
- Hadassah-WIZO, Male Life Associate Member 1995

Educational Volunteerism

- Telus World of Science, British Columbia
 - Main Stage Presentations, *Math Magic and Wizardry*, 2002
 - Creator and Presenter, *Arithmetricks’ Puzzle Day*, 2003
- Vancouver Talmud Torah, Vancouver Hebrew Academy, Richmond Jewish Day School, Crofton House School, Fraser Academy
 - Presentations on fun with mathematics and word games, Grades K through 7
- Vancouver Talmud Torah High School, Magee High School, Fraser Academy
 - Guest teaching in various grades
- BC High School Math Contest 2007 and 2011, Thompson Rivers University
 - Keynote speaker
- Emcee and quizmaster for One to One Literacy BC annual corporate fundraising event 2016-present